

**Interim Remedial Measure  
NAPL Recovery Wells  
50 Kent Avenue Property Holder Area  
Construction Completion Report  
Williamsburg Works Former MGP Site  
Brooklyn, Kings County, New York**

*Prepared for:*

**National Grid**

One MetroTech Center  
Brooklyn, New York 11201

*Prepared by:*

**URS**

257 West Genesee Street, Suite 400  
Buffalo, NY 14202

**December 2014**

**INTERIM REMEDIAL MEASURE  
NAPL RECOVERY WELLS  
CONSTRUCTION COMPLETION REPORT**

**50 KENT AVENUE PROPERTY HOLDER AREA  
BROOKLYN, KINGS COUNTY, NEW YORK**

***Prepared for:***

**National Grid  
One MetroTech Center  
Brooklyn, New York 11201**

***Prepared by:***

**URS Corporation  
257 West Genesee Street  
Buffalo, New York 14202  
716-856-5636**

**December 2014**

**CERTIFICATIONS**

I, Jack Wilcox, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the IRM NAPL Recovery Well Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved IRM NAPL Recovery Well Work Plan.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jack Wilcox, of URS Corporation – New York, am certifying as Owner's Designated Site Representative for the site.

  
\_\_\_\_\_  
Jack Wilcox

12/18/14  
Date

Registered Professional Engineer  
New York License No. 66336  
URS Corporation – New York  
257 West Genesee Street  
Buffalo, NY 14202



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**LIST OF ACRONYMS AND ABBREVIATIONS**

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| bgs               | below ground surface                                    |
| C&D               | Construction and Demolition                             |
| CAMP              | Community Air Monitoring Plan                           |
| ELAP              | Environmental Laboratory Approval Program               |
| HASP              | Health and Safety Plan                                  |
| IDIP              | IRM Design and Implementation Plan                      |
| IRM               | interim remedial measure                                |
| MGP               | manufactured gas plant                                  |
| NAPL              | non-aqueous phase liquid                                |
| NRW               | NAPL Recovery Well                                      |
| NYSDEC            | New York State Department of Environmental Conservation |
| NYCDOT            | New York City Department of Transportation              |
| PID               | photoionization detector                                |
| ppmv              | parts per million by volume                             |
| PVC               | polyvinyl chloride                                      |
| RAOs              | Remedial Action Objectives                              |
| RDW               | Remedial Derived Waste                                  |
| RFI               | Request for Information                                 |
| URS               | URS Corporation- New York                               |
| VOCs              | volatile organic compounds                              |
| µg/m <sup>3</sup> | micrograms per cubic meter                              |

## **1 BACKGROUND AND SITE DESCRIPTION**

The Brooklyn Union Gas Company (BUG), then doing business as KeySpan Corporation, and now doing business as National Grid NY, entered into a multi-site Order on Consent and Administrative Settlement, #A2-0552-0606 (the Order) with the New York State Department of Environmental Conservation (NYSDEC) in February 2007 to investigate and remediate several sites. The former Williamsburg Works Manufactured Gas Plant (MGP) site, located in the Borough of Brooklyn, Kings County, New York, was added to the Order by a modification executed in August 2007. The Interim Remedial Measure (IRM) activities discussed in this Construction Completion Report (CCR) were one component of an IRM that will address only the 50 Kent Avenue Holder Area property (“the Site”) of the former Williamsburg Work MGP footprint. The Site, approximately 1.85-acres in area, is identified as New York City Tax Block 2287, Lot 1, and was the location for purifying operations, condensers, portions of a toluol recovery plant, and three gas holders. A Site Location Map is presented as Figure 1. The Site is bounded by North 12<sup>th</sup> Street to the northeast, North 11<sup>th</sup> Street to the southwest, Kent Avenue to the southeast, and Block 2287, Lot 16 to the northwest (see Figure 2).

This CCR describes construction activities associated with the installation of thirteen (13) passive Non-Aqueous Phase Liquid (NAPL) recovery wells (NRW-1 through NRW-13) including eight along North 12<sup>th</sup> St., two along North 11<sup>th</sup> St. and three located towards the west end of the Site (Figure 2). The construction activities were performed from March 7, 2014 through April 29, 2014. An electronic copy of this CCR with all supporting documentation is included as Appendix A.

## **2 SUMMARY OF INTERIM REMEDIAL MEASURE**

### **2.1 Remedial Action Objectives**

This IRM was implemented prior to the completion of the Remedial Investigation. Remedial Action Objectives (RAOs) have not been established for the Site. Based on the approved IRM Design and Implementation Plan (IDIP), the NAPL recovery wells were installed to satisfy the following component of the IDIP:

- Product recovery would be pursued through installation of NAPL collection wells along N. 12<sup>th</sup> Street, north of the Site and along the 55-foot zone between the western edge of shallow excavation and the CitiStorage building.

### **2.2 Description of Selected Interim Remedy**

The construction activities described in this report were completed in accordance with the IRM NAPL Recovery Well Work Plan for the 50 Kent Avenue Property Holder Area (the Work Plan) (URS, October 2013). The Work Plan was prepared to describe the initial component of a broader IRM for the Site. The Work Plan was reviewed and approved by the NYSDEC in a letter dated October 17, 2013. The Work Plan identified the design basis objectives, installation, and means of construction and operation of the NAPL recovery wells.

The IRM component described in this report was in the installation of thirteen wells to be used to recover NAPL.

### **3 INTERIM REMEDIAL MEASURES, OPERABLE UNITS, AND REMEDIAL CONTRACTS**

There have been no prior IRMs implemented at the former Williamsburg Works MGP site. To date, no operable units have been designated at the former Williamsburg Works MGP site.

## **4 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED**

Remedial actions completed at the Site were conducted in accordance with the Work Plan for the installation and development of the NAPL recovery wells and associated work, which was performed by EnviroTrac Ltd. (EnviroTrac) and their sub-contractors. All deviations from the Scope of Work are noted in Section 4.7 Change Orders. Contractor requests for information are presented in Appendix B. Daily reports from the Contractor are presented in Appendix C. A photo log is presented in Appendix D.

Figure 2 presents the NAPL recovery well locations. Below is a general list of the scope of work.

- Site preparation/mobilization, installation of a decontamination pad, establishment of construction laydown areas, and establishment of storage containers for generated liquid and soil;
- Identifying utilities and facilitating mark outs;
- Implementing a Community Air Monitoring Program (CAMP) to measure, document, and respond to potential airborne contaminants during ground-intrusive activities associated with the installation of the recovery wells;
- Implementation of traffic control measures to prevent vehicles and pedestrians from entering work zones;
- Saw cutting and removal of asphalt pavement, and saw cutting, breaking, removal and disposal of concrete pavement;
- Sonic drilling activities and decontamination of equipment;
- Storage of generated materials;
- Sampling and analysis of soil and water for disposal characterization and determination as hazardous or non-hazardous;
- Loading of materials, waste water, etc. and transporting the materials off site for disposal;
- Final restoration including sidewalk repairs, and Site cleanup and demobilization.

### **4.1 Governing Documents**

The work was conducted in accordance with the NYSDEC-approved IRM NAPL Recovery Well Work Plan prepared by URS (October, 2013) and the technical specifications and other contract documents prepared for this IRM and provided to EnviroTrac in the bid package.

#### **4.1.1 Site Specific Health & Safety Plan (HASP)**

All remedial work performed under this IRM was in full compliance with governmental requirements, including site-specific and worker safety requirements mandated by Federal

OSHA. All remedial and invasive work performed at the Site was in compliance with The Health and Safety Plan (HASP).

#### **4.1.2 Community Air Monitoring Plan (CAMP)**

The CAMP utilized for the construction of the NAPL recovery wells was included as Appendix C of the IRM Recovery Well Work Plan. The CAMP requirements for this project are summarized below:

- VOCs and dust particulates were monitored at the downwind perimeter of the exclusion zone on a continuous basis. If total organic vapor levels were to exceed 5 parts per million by volume (ppmv) above background, work activities were to be halted and monitoring continued under the provisions of a Vapor Emission Response Plan. All readings were to be recorded.
- If particulates levels at the downwind station were to exceed particulate levels at the upwind station by more than 100 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), work activities were to be halted and appropriate dust suppression measures were to be employed. All readings were recorded.

#### **4.1.3 Community Participation Plan**

A fact sheet was developed by National Grid and approved by NYSDEC. The approved Fact Sheet was distributed through the NYSDEC e-mail distribution service. National Grid mailed hard copies of the Fact Sheet to the community and businesses surrounding the Site. Weekly updates on the IRM activities were posted on the public website <http://williamsburgmgpsite.com/>.

### **4.2 Remedial Program Elements**

#### **4.2.1 Contractors and Consultants**

EnviroTrac was the primary contractor for National Grid. Cascade Drilling L.P. (Cascade) was the subcontractor for the well drilling and installation work. EnviroTrac retained YEC, Inc. for the well location survey and American Analytical Laboratories for the soil and water analytical testing. Representatives from National Grid's Construction Administrator (URS) were on Site during the construction work to monitor compliance with the contract documents. A full-time construction administrator from URS observed the work and inspected each major construction activity. A pre-construction meeting was held with National Grid, EnviroTrac, Cascade, and URS on February 7, 2014.

#### **4.2.2 Mobilization and Site Preparation**

EnviroTrac mobilized to the Site on March 7, 2014 to begin pre-clearing locations for the drilling activities.

The following Site preparation work was conducted during this mobilization phase:

- Setup of components of the Community Air Monitoring Program;
- Utility marker layout and geophysical survey;
- Acquisition of NYCDOT sidewalk permits (provided in Appendix E); and
- Intermittent snow clearing as necessary.

#### **4.2.3 Construction Activities Related to NAPL Recovery Well Installation**

Construction activities related to the installation of the NAPL recovery wells commenced on March 7, 2014 and continued through April 29, 2014. The sections below describe the individual activities in detail. Refer to Appendix C for EnviroTrac's and Cascade's daily construction reports and drilling. The typical sequence of work for installation of the NAPL recovery wells was as follows, although several tasks were carried out concurrently:

1. Saw-cutting and demolition of concrete sidewalks along North 11<sup>th</sup> Street, North 12<sup>th</sup> Street and within Site property boundary.
2. Pre-clearing of well locations, including hand-excavation of soils to 5 feet below original grade.
3. Advancement of soil borings and well installation using a Sonic Drill Rig.
4. Installation of well boxes at each well location.
5. Development of wells.
6. Off-site disposal of generated liquids and solids.
7. Site restoration.

Ancillary tasks included, but were not limited to, off-site disposal of waste and contaminated materials and implementation of traffic control devices. Excavated concrete and asphalt and drill cuttings were stored in two roll-off containers on-site and later transported off-site for disposal at Bayshore Soil Management of Keasbey, NJ, a National Grid-approved disposal facility.

##### ***4.2.3.1 Installation of NAPL Recovery Wells***

A total of 13 NAPL recovery wells were installed as part of the IRM. The specific well locations are shown on Figure 2. Boring logs and well construction logs, including installed depth and screened intervals, are presented in Appendix F. Prior to installation, each location was pre-cleared with hand tools to a depth of 5 feet below grade. Upon completion of the pre-clearing activities, sonic drilling was used to advance 10-inch diameter steel casings at the proposed locations. The casings were advanced with Sonic Drill Rigs (Mini C200 and 600T).

URS logged each boring to identify stratigraphy and contaminated zones, and made any needed adjustments to the proposed screen elevations. The URS representative screened soils with a photoionization detector (PID) PID-MultiRAE+ 4 Gas Meter. Logging of the well boring was performed to determine the presence of contamination in accordance with the National Grid standard definitions of contamination, including percent saturation, presence of sheens, staining,

blebs and odor, and distinction between coal tar-related contamination and petroleum-related contamination.

Screen intervals were generally determined based on depths where NAPL contamination was discovered during the well drilling process. The bottom of the screen was located at the top of the clay layer. A 5-foot long sump was installed into the basal clay layer, beneath the lowest screened zone, for collection of NAPL.

Additional screen lengths were installed if warranted based on field observations of NAPL saturation or coating during advancement of the well borings.

Table 4.1 presents a summary of the depths and screen intervals for each well.

**Table 4.1**  
NAPL Recovery Well Summary

| <b>Recovery Well</b> | <b>Well Depth (ft)</b> | <b>Stainless Steel Screen Intervals bgs (ft)</b> | <b>PVC Screen Intervals bgs (ft)</b> | <b>Total Screen Length (ft)</b> |
|----------------------|------------------------|--------------------------------------------------|--------------------------------------|---------------------------------|
| NRW-01               | 60                     | 10-20                                            | 30-55                                | 35                              |
| NRW-02               | 65                     | 20-30, 35-60                                     | ---                                  | 35                              |
| NRW-03               | 60                     | ---                                              | 30-55                                | 25                              |
| NRW-04               | 62                     | 7-17                                             | 32-57                                | 35                              |
| NRW-05               | 66                     | ---                                              | 36-61                                | 25                              |
| NRW-06               | 67                     | 12-27, 52-62                                     | ---                                  | 25                              |
| NRW-07               | 63                     | 13-18, 38-58                                     | ---                                  | 25                              |
| NRW-08               | 59                     | ---                                              | 19-54                                | 35                              |
| NRW-09               | 58                     | ---                                              | 18-53                                | 35                              |
| NRW-10               | 55                     | 15-50                                            | ---                                  | 35                              |
| NRW-11               | 57                     | 7-22, 42-52                                      | ---                                  | 25                              |
| NRW-12               | 60                     | 20-55                                            | ---                                  | 35                              |
| NRW-13               | 60                     | ---                                              | 20-55                                | 35                              |

The wells were constructed with 6-inch diameter by 5-foot long stainless steel Schedule 5 sumps, 6-inch diameter PVC 0.020 slot wire-wrapped screen (68 square inches open area per foot of screen) and/or a 6-inch diameter stainless steel 0.020 slot wire-wrapped screen (62 square

inches open area per foot of screen) or combination thereof, and a 6-inch diameter Schedule 40 PVC solid riser to grade. For each well, the annular space between the boring wall and the well screen was filled with a size #0 sand pack. The annular space above the well screen was filled with an additional foot of #0 sand pack, a 2-foot thick bentonite pellet seal above the sand pack and then tremie-grouted to one foot below grade.

The installed locations were surveyed for position (US State Plane 1983, East zone) and elevation (North American Vertical Datum, 1983) by YEC, Inc.

#### **4.2.3.2 Well Development**

After completion of each well installation, EnviroTrac developed the wells utilizing an air lift method. Development activities involved removing residual drilling fluids and fine grained material from within the wells. Prior to and during the well development activities, the water level and turbidity readings of groundwater were recorded. Well development was completed when the volume of water removed reached five well volumes or a turbidity of 50 NTUs or less was reached, except for three wells where measureable NAPL was encountered. Wells NRW-2, NRW-7, and NRW-12 encountered measurable NAPL during development after 235 gallons, 145 gallons, and 175 gallons were purged, respectively. Development did not continue past those volumes. Well development data and sample descriptions are available in Appendix F. Purge water was stored on-site in a 10,000 gallon storage container and later transported off-site for disposal at Tradebe Treatment & Recycling in Bridgeport, CT, a National Grid-approved disposal facility.

#### **4.2.3.3 Well box Installation**

All of the wells were completed with flush mounted well boxes for protection and access. A 2' by 2' by 5" thick apron of new concrete was placed around each well box to prevent potential settlement and heaving issues.

#### **4.2.4 Restoration**

Restoration work included restoring concrete sidewalks as well as asphalt pavement. All restoration activities were performed in accordance with the technical specifications prepared for this IRM.

#### **4.2.5 General Site Controls**

General site controls for the construction were utilized including decontaminating drilling equipment over a drill pan located under the drill rig to contain the solids and rinsate. Residual waste was transferred and stored within on-site storage containers prior to off-site disposal. Other site controls included traffic control devices for protection of personnel and the work.

#### **4.2.6 CAMP Results**

URS performed community air monitoring activities in accordance with the Work Plan and the URS HASP. EnviroTrac was responsible for conducting air monitoring of the work area

in accordance with their *HASP*. Copies of all field data sheets relating to the CAMP are provided in Appendix G.

The instruments used were the DustTRAK Aerosol Monitor, PID-MiniRAE 2000, and PID-MultiRAE+ 4 Gas Meter. Measurements of VOCs and dust particulates were measured upwind and downwind at each installation location. The PID-MultiRAE+ 4 Gas Meter was used for personnel surveillance within the exclusion zone.

- No VOCs were detected above the alert level of 5 ppmv above the upwind level.
- Dust measurements were below the alert level of 100  $\mu\text{g}/\text{m}^3$  above the upwind level except as shown on the data sheets. Dust was generated for reasons such as use of the air knife and saw cutting concrete/asphalt. Dust measurements exceeding the alert level were not sustained for 15 minutes.
- The upwind dust measurements on March 25, 2014, sustained high readings above action limits due to the proximity of an off-site spray painting operation at the property to the north.

#### **4.2.7 Reporting**

Daily reports were prepared by EnviroTrac and Cascade and delivered to URS for review and approval. URS drafted the agenda for each weekly meeting. Weekly Meeting Minutes were prepared and distributed by URS for approval by National Grid.

EnviroTrac maintained a set of working drawings on Site to note the actual construction results and any variations from the contract drawings. Well construction logs were prepared to document the actual construction. All daily reports are included in Appendix C. The photo log is included in Appendix D.

### **4.3 Remedial Derived Waste (RDW) Testing and Removal**

American Analytical Laboratories, LLC (AAL) of Farmingdale, NY performed chemical analytical testing of soil and liquid to be sent off-site for disposal at National Grid-approved disposal facilities. Samples were submitted under chain-of-custody. AAL is certified by the New York State Department of Health (NYSDOH) and is an Environment Laboratory Approval Program (ELAP) approved laboratory. Laboratory analytical reports are presented in Appendix H.

A single water sample and a single soil sample were collected to characterize the waste. Letters from the Contractor to the disposal facility owners and acceptance letters from disposal facility owners are attached in Appendix H. Manifests, weigh tickets, Acknowledgment of Treatment and Recycling, and Certificates of Disposal are also included in Appendix H.

A summary of the waste disposal records for the waste material disposed is presented below.

- 9,850 gallons of hazardous water (hazardous by the characteristic of toxicity due to benzene present at 1.5 mg/L) was transported to Tradebe Treatment and Recycling of Bridgeport LLC, in Bridgeport, CT for off-site disposal. Wastewater was pumped from the on-site storage tank and transported for disposal on 4/24/14 and 4/28/14.
- 29.53 tons of non-hazardous soil and C&D debris was generated during pre-clearing and drilling activities and transported for disposal at Bayshore Soil Management of Keasbey, NJ on 4/10/14 and 4/29/14.

The non-hazardous soil and C&D debris was disposed by thermal treatment. The hazardous water was disposed by blending and burning the solid phase for its thermal value and the aqueous phase was treated by ultrafiltration, chemical precipitation and carbon absorption.

#### **4.4 Contamination Remaining at the Site**

NAPL recovery is an ongoing program. NAPL will be gauged and recovered from the wells on a to-be-determined frequency, based on post-development NAPL thicknesses and observed recovery rates. NAPL collection and disposal will be documented following each gauging/recovery event. The installation of the NAPL recovery wells did not remove any contamination from the Site other than contamination present in soils removed in the process of well installation. Additional remedial work is planned at the Site to address sources of contamination. No Site Management Plan will be produced until further remediation is completed.

#### **4.5 Engineering Controls**

This interim remedy did not require the construction of any other engineering control systems.

#### **4.6 Institutional Controls**

No Institutional Controls will be placed at the Site until additional remediation is completed.

#### **4.7 Construction Deviation**

During the installation of NRW-09 and NRW-11, a 24" steel pipe considered to be a former gas line was encountered. One change order was executed for work associated with core drilling through the inactive 24" gas piping along North 12<sup>th</sup> Street at NRW-09 and NRW-11. The change order is presented in detail in Appendix B. Photos are presented in Appendix D.

## **5 References**

URS, 2013. *Interim Remedial Measure NAPL Recovery Well Work Plan for the 50 Kent Avenue Property Former Williamsburg Works MGP Site. October 2013.*

## FIGURES



New York State



Site Location



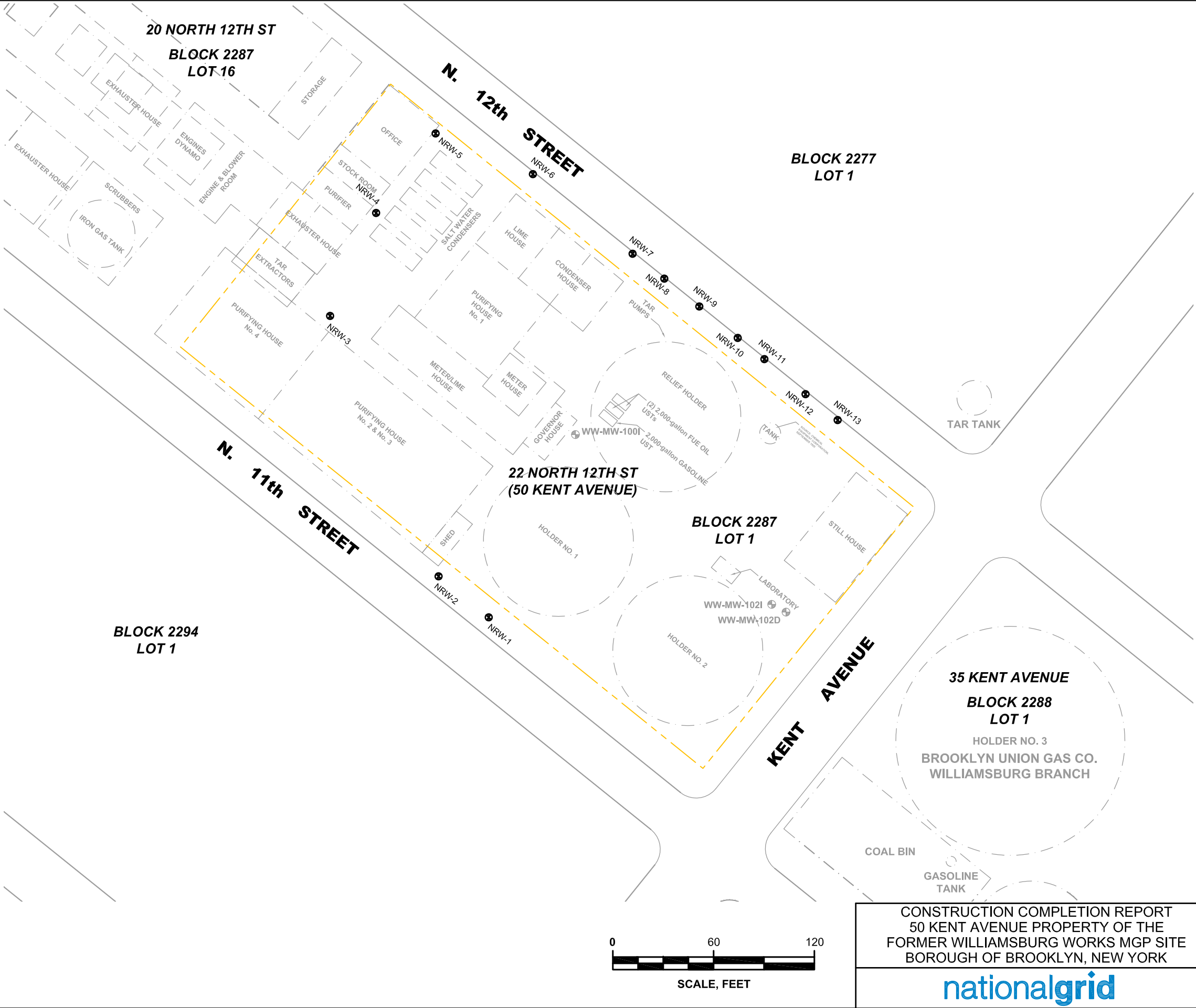
Source: Google Earth Pro - © 2012 Google

APPROXIMATE SCALE IN FEET



CONSTRUCTION COMPLETION REPORT  
50 KENT AVENUE PROPERTY OF THE  
FORMER WILLIAMSBURG WORKS MGP SITE  
BOROUGH OF BROOKLYN, NEW YORK  
SITE LOCATION MAP

FIGURE 1



**LEGEND**

APPROXIMATE CURRENT 50 KENT AVENUE  
PROPERTY BOUNDARY

HISTORIC STRUCTURE

INTERIM REMEDIAL MEASURE (IRM)  
DESIGN INVESTIGATION MONITORING  
WELL LOCATION

NAPL RECOVERY WELL LOCATION

- SOURCES:**
1. FORMER MGP STRUCTURES SOURCE: "THE BROOKLYN UNION GAS CO. WILLIAMSBURG WORKS" DRAWING 2-G-130 AND DRAWING PROVIDED BY GEI CONSULTANTS, INC., DATED AUGUST 2011.

2. SURVEYED RECOVERY WELLS FROM DRAWING TITLED "WILLIAMSBURG WORKS FORMER MGP SITE" BOROUGH OF BROOKLYN, NEW YORK. JOB NO. A0442-1, DATED AUGUST 2013, REVISED 4/23/14 PROVIDED BY YEC, INC.
- NOTES:**
1. HORIZONTAL DATUM IS REFERENCED TO NEW YORK STATE PLANE (NAD83), EAST ZONE

| MONITORING WELL COORDINATE TABLE |           |           |
|----------------------------------|-----------|-----------|
| MONITORING WELL                  | NORTHING  | EASTING   |
| NRW-1                            | 688706.95 | 641842.17 |
| NRW-2                            | 688731.36 | 641812.31 |
| NRW-3                            | 688886.46 | 641747.73 |
| NRW-4                            | 688947.78 | 641775.14 |
| NRW-5                            | 688995.13 | 641810.55 |
| NRW-6                            | 688970.90 | 641868.46 |
| NRW-7                            | 688923.48 | 641927.82 |
| NRW-8                            | 688908.66 | 641946.72 |
| NRW-9                            | 688892.07 | 641967.55 |
| NRW-10                           | 688873.34 | 641990.42 |
| NRW-11                           | 688860.73 | 642006.30 |
| NRW-12                           | 688839.86 | 642030.80 |
| NRW-13                           | 688824.43 | 642049.92 |

CONSTRUCTION COMPLETION REPORT  
50 KENT AVENUE PROPERTY OF THE  
FORMER WILLIAMSBURG WORKS MGP SITE  
BOROUGH OF BROOKLYN, NEW YORK

NAPL RECOVERY WELL  
LOCATIONS

Project 11176638.00019

JUNE 2014

Figure 2

APPENDIX A  
CONSTRUCTION COMPLETION REPORT (CCR)  
ELECTRONIC COPY

APPENDIX B  
CHANGE ORDERS AND CONTRACTOR REQUESTS FOR INFORMATION



March 27, 2014

Mr. Jon Sundquist  
URS Corporation  
77 Goodell Street  
Buffalo, NY 14203

Re: National Grid, Former Williamsburg MGP  
50 Kent Avenue  
Brooklyn, New York  
Purchase Order No. 3200084823

**Change Order Request No. 1 – Core Drill Through Steel Pipe at Two (2) Locations to Accommodate Installation of NRW-9 and NRW-11**

Dear Mr. Sundquist:

At the request of URS Corp and National Grid, EnviroTrac Ltd has prepared the following change order request for the above referenced project for your review.

Change of Scope:

The following items are addressed within this Change Order Request as additional cost items.

- Subcontractors, equipment, and labor necessary to mobilize and install a cored hole through a 24" steel pipe considered to be a former gas line. This work will eliminate the impedance that the 24" pipe currently creates.

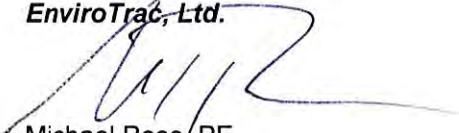
Attached for your review is a spreadsheet detailing the costs associated with this work.

EnviroTrac requests a lump sum price **\$8,262.00** for work completed as part of this change order.

To ensure the safety of all personnel, EnviroTrac and its intended subcontractor request the presence of a National Grid representative to be present and render the 24" pipe inert at the precise location of the each coring.

If acceptable, EnviroTrac could schedule this work to begin on Monday, March 31<sup>st</sup>, and it is anticipated to take 2 days to complete.

Sincerely,  
**EnviroTrac, Ltd.**



Michael Rose, PE  
Project Engineer

Attachments: Cost Breakdown

**Cost Breakdown****Change Order No. 1**

Project: Nat Grid, Former Williamsburg MGP. PO# 3200084823

Description: Core Drill Locations at NRW-9 and NRW-11

**Materials**

| Task | Description | Manufacturer / Vendor | Unit | Quantity | Unit Price | Total Price          |
|------|-------------|-----------------------|------|----------|------------|----------------------|
| NA   |             |                       |      |          |            | \$ -                 |
|      |             |                       |      |          |            | Subtotal: \$ -       |
|      |             |                       |      |          |            | 15% Markup: \$ -     |
|      |             |                       |      |          |            | Material Total: \$ - |

**Equipment/Subcontractors**

| Task          | Description                  | Manufacturer / Vendor     | Unit | Quantity | Unit Price  | Total Price                          |
|---------------|------------------------------|---------------------------|------|----------|-------------|--------------------------------------|
| Core Drill    | Core Drill two (2) locations | Atlantic Concrete Cutting | LS   | 1        | \$ 4,900.00 | \$ 4,900.00                          |
|               |                              |                           |      |          |             | Subtotal: \$ 4,900.00                |
|               |                              |                           |      |          |             | 15% Markup: \$ 735.00                |
|               |                              |                           |      |          |             | Total: \$ 5,635.00                   |
| Field Support | 1 Ton Pickup Truck           | EnviroTrac                | Day  | 2        | \$ 175.00   | \$ 350.00                            |
|               |                              |                           |      |          |             | Equipment and Sub Total: \$ 5,985.00 |

**Labor**

| Task          | Title   | Hours | Unit | Rate      | Labor Subtotal              | ET MU (15%)               | Total ET MU              | Ext Rate  | Total       |
|---------------|---------|-------|------|-----------|-----------------------------|---------------------------|--------------------------|-----------|-------------|
| Field Support | Foreman | 16    | Hour | \$ 95.00  | \$ 1,520.00                 | \$ 14.25                  | \$ 228.00                | \$ 109.25 | \$ 1,748.00 |
|               | Laborer | 0     | Hour | \$ 70.00  | \$ -                        | \$ 10.50                  | \$ -                     | \$ 80.50  | \$ -        |
|               | PM      | 4     | Hour | \$ 115.00 | \$ 460.00                   | \$ 17.25                  | \$ 69.00                 | \$ 132.25 | \$ 529.00   |
|               |         |       |      |           | Labor Subtotal: \$ 1,980.00 | Total MU (15%): \$ 297.00 | Labor Total: \$ 2,277.00 |           |             |

**Total Cost: \$ 8,262.00**



March 31, 2014

Michael Rose, P.E.  
Project Engineer  
EnviroTrac, Ltd.  
5 Old Dock Road  
Yaphank, NY 11980

**Re: Change Order Request No. 1 – Core Drill Through Steel Pipe at Two (2) Locations to Accommodate Installation of NRW-9 and NRW-11**

Dear Mr. Rose:

URS has reviewed your above referenced change order request, as revised on March 27, 2014 (attached) and have accepted it.

|                                                                                |           |
|--------------------------------------------------------------------------------|-----------|
| The original contract sum was (exclusive of optional items):                   | \$354,883 |
| Previously approved change orders:                                             |           |
| The contract sum prior to this change order was (exclusive of optional items): | \$354,883 |
| The contract will be increased by this change order by:                        | \$ 8,262  |
| The new contract sum including this sum will be (exclusive of optional items): | \$363,145 |

Please signal your agreement with this acceptance by signing below and returning to myself and Donald Campbell of National Grid for execution.

Sincerely yours,

Jon Sundquist, Ph.D.  
Project Manager

Cc: Donald Campbell, National Grid  
File: 11176638 (C-1)

Authorized Signature: \_\_\_\_\_  
(EnviroTrac, Ltd.)

Date: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_  
(National Grid)

Date: \_\_\_\_\_



Former Equity Works Manufactured Gas Plant  
Product Recovery Interim Remedial Measure

## Request for Information

|         |                   |        |   |
|---------|-------------------|--------|---|
| To      | Jon Sunquist      | RFI #: | 1 |
| CC      | Allen Zgaljardic  |        |   |
| Subject |                   |        |   |
| From    | Michael Rose      |        |   |
| Date    | February 12, 2014 |        |   |

|                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Drawings and Specifications:</b><br><br><b>C-002 NAPL Recovery Well Details</b>                                                                           |
| <b>Contract Requirements:</b><br><br><b>#0 Filpro Sand Pack</b>                                                                                                      |
| <b>Statement of Problem:</b><br><br><b>#0 Sand pack grain size is too fine for the specified 20-slot screen and could potentially clog or enter the screen zone.</b> |
| <b>Recommended Variation:</b><br><br><b>Utilize #2 Sand pack in lieu of #0.</b>                                                                                      |
| <b>Expected Cost/Schedule Impact:</b><br><br><b>No cost or schedule impact</b>                                                                                       |
| <b>Information Needed By Date: 2/19/14</b>                                                                                                                           |



# Memorandum

Date: February 14, 2014

To: Michael Rose, EnviroTrac

From: Jon Sundquist

Subject: **Williamsburg Works Former MGP NAPL Wells, RFI #001 Response**

RFI #001 states that the specified #0 Sand pack grain size is too fine for the specified 20-slot screen and could potentially clog or enter the screen zone. The RFI recommends using #2 sand pack in lieu of #0.

We initially responded with a request that EnviroTrac provide an actual grain size distribution (ASTM D422) for the #0 sand pack that would be used on this project to determine the actual percentage of the sand that would be expected to pass through the screen size.

EnviroTrac responded on February 13 with a cut sheet from US Silica for their various size sands. This cut sheet shows that only 1.4% of the Filpro #0 sand would pass a 35 mesh (which corresponds to a 20-slot screen). The cut sheet further recommends this sand pack for screens as wide as 25-slot (and says the finer #00 sand would be recommended for 20-slot screens). Therefore, this information confirms that the specified sand pack size (#0) is appropriate for this project.

\*\*\*\*\*

cc: Donald Campbell, National Grid



Former Equity Works Manufactured Gas Plant  
Product Recovery Interim Remedial Measure

## Request for Information

|         |                   |        |   |
|---------|-------------------|--------|---|
| To      | Jon Sunquist      | RFI #: | 2 |
| CC      | Allen Zgaljardic  |        |   |
| Subject |                   |        |   |
| From    | Michael Rose      |        |   |
| Date    | February 12, 2014 |        |   |

|                                             |
|---------------------------------------------|
| <b>Related Drawings and Specifications:</b> |
|---------------------------------------------|

|               |
|---------------|
| Section 01066 |
|---------------|

|                               |
|-------------------------------|
| <b>Contract Requirements:</b> |
|-------------------------------|

|                                                    |
|----------------------------------------------------|
| Decontamination Procedure during well installation |
|----------------------------------------------------|

|                              |
|------------------------------|
| <b>Statement of Problem:</b> |
|------------------------------|

|                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extracting, then transporting the drill steel between each boring location to a centralized decontamination pad may potentially cause cross contamination and spilled debris to other site surfaces |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |
|-------------------------------|
| <b>Recommended Variation:</b> |
|-------------------------------|

|                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decontaminate drill steel as it is extracted from the boring. This technique is suggested for the drill steel only. Rigs, development equipment, and other gear will be decontaminated atop a decontamination pad as specified. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                       |
|---------------------------------------|
| <b>Expected Cost/Schedule Impact:</b> |
|---------------------------------------|

|                            |
|----------------------------|
| No cost or schedule impact |
|----------------------------|

|                                     |
|-------------------------------------|
| Information Needed By Date: 2/19/14 |
|-------------------------------------|



# Memorandum

Date: February 13, 2014

To: Michael Rose, EnviroTrac

From: Allen Zgaljardic

Subject: **Williamsburg Works Former MGP NAPL Wells, RFI #002 Response**

RFI #002 states that extracting, then transporting the drill steel between each boring location to a centralized decontamination pad may potentially cause cross contamination and spilled debris to other site surfaces. The RFI recommends decontaminating the drill steel as it is extracted from the boring.

URS agrees with the recommendation. Additionally, URS requests that EnviroTrac provide a submittal of the proposed field setup and procedure for the decontamination.

\*\*\*\*\*

cc: Donald Campbell, National Grid



Former Equity Works Manufactured Gas Plant  
Product Recovery Interim Remedial Measure

## Request for Information

|         |                   |          |
|---------|-------------------|----------|
| To      | Jon Sunquist      | RFI #: 3 |
| CC      | Allen Zgaljardic  |          |
| Subject |                   |          |
| From    | Michael Rose      |          |
| Date    | February 12, 2014 |          |

|                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Drawings and Specifications:</b><br><br><b>Section 02400 3.4.1</b>                                                                                                                                       |
| <b>Contract Requirements:</b><br><br><b>Positive Displacement or Submersible Pump utilized to develop the wells</b>                                                                                                 |
| <b>Statement of Problem:</b><br><br><b>DNAPL is likely to plug/foul and burn out electrical pumps, hindering project schedule</b>                                                                                   |
| <b>Recommended Variation:</b><br><br><b>Utilize air lift method for well development. Components of the air lift technique will be decontaminated between locations on a centrally located decontamination pad.</b> |
| <b>Expected Cost/Schedule Impact:</b><br><br><b>No cost or schedule impact</b>                                                                                                                                      |
| <b>Information Needed By Date: 2/19/14</b>                                                                                                                                                                          |



# Memorandum

Date: February 13, 2014

To: Michael Rose, EnviroTrac

From: Allen Zgaljardic

Subject: **Williamsburg Works Former MGP NAPL Wells, RFI #003 Response**

RFI #003 states that DNAPL is likely to plug/foul and burn out electrical pumps, hindering project schedule. The RFI recommends utilizing air lift method for well development.

URS agrees with the recommendation. Additionally, URS requests that EnviroTrac provide a submittal of the proposed setup, and procedure for containing the water utilizing this method.

\*\*\*\*\*

cc: Donald Campbell, National Grid



Former Equity Works Manufactured Gas Plant  
Product Recovery Interim Remedial Measure

## Request for Information

|         |                   |        |   |
|---------|-------------------|--------|---|
| To      | Jon Sunquist      | RFI #: | 4 |
| CC      | Allen Zgaljardic  |        |   |
| Subject | Centralizers      |        |   |
| From    | Michael Rose      |        |   |
| Date    | February 26, 2014 |        |   |

**Related Drawings and Specifications:**

Section 02400 Sheet C-002 and C-003

**Contract Requirements:**

Well Installation

**Statement of Problem:**

Recovery well details do not show the utilization of well centralizers. Lack of centralizers could lead to an uneven placement of the well within the borehole.

**Recommended Variation:**

Install centralizers, at a rate of 3 per well, to ensure well is centrally placed within the boring

**Expected Cost/Schedule Impact:**

**Estimated Cost:** Additional \$3,900 **Schedule Impact:** Negligible

**Information Needed By Date:** 2/27/14



# Memorandum

Date: February 26, 2014

To: Michael Rose, EnviroTrac

From: Allen Zgaljardic

Subject: **Williamsburg Works Former MGP NAPL Wells, RFI #004 Response**

RFI #004 states that the recovery wells do not show the utilization of well centralizers. The RFI recommends installing centralizers.

Note No.1 on drawings C-002 and C-003, "NAPL Recovery Well Details," details the use of centralizers for the recovery wells.

\*\*\*\*\*

cc: Donald Campbell, National Grid



# Memorandum

Date: April 2, 2014

To: Michael Rose, EnviroTrac

From: Jon Sundquist

Subject: **Williamsburg Works Former MGP NAPL Wells, RFI #005 Response, Rev1**

Your 9:37 AM March 31, 2014 e-mail asking a question about abandoned gas line sealing is being assigned RFI #005. The request asked:

*We are coring today, and I would like to have the locations pre-cleared to depth by tomorrow.*

*Has National Grid decided how they would like to seal the pipe? I planned on placing a 12" sonnet tube through the coring, and drill the well within the 12" tube. Would that be sufficient?*

**Response:**

Pursuant to Megan Dascoli further discussions with Mike Alliegro in the field today, the RFI response is being modified to this revised approach:

- After coring is complete, a snug-fitting 14" PVC pipe will be placed into the hole created by the coring.
- The well will be installed through this 14' PVC pipe.
- The interface between the PVC pipe and the 24" abandoned gas line will be sealed with bentonite and/or grout. The PVC pipe will remain in the ground.

This is just a general outline of the approach discussed in the field today. Please respond acknowledging this approach. If acceptable, please provide a submittal with a brief procedure description providing more and/or more accurate details than provided above in those three bullets, including the completion details for the annulus between the PVC pipe and the well riser.

\*\*\*\*\*

cc: Donald Campbell, National Grid



APPENDIX C  
DAILY REPORTS

## DAILY FIELD REPORT

Thursday

DAY: 3/6/14

DATE:



Temperature (F°): AM/PM ° F / ° F  
 Wind Speed (MPH)/Direction: mph  
 AM Weather Conditions:  
 PM Weather Conditions:

Client: National Grid  
 Project Name: Former Williamsburg Works MGP site  
 Purchase Order Number:  
 EnviroTrac Project Number: 01.NG0003.00  
 Construction Oversight / Engineer: URS  
 Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Megan Vascoli

8 hours

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alliegro  
 Zach Berman  
 Mike Rose

8 hours

4 hrs

Sub-Contractor Personnel On-Site:

Hours Worked

Roy Aanco  
 Call-a-Head

- 1.5 hrs  
 - 0.5 hrs

Visitors On-Site:

|                                |               |               |                  |
|--------------------------------|---------------|---------------|------------------|
| Equipment On-Site:             | Vendor Name   | Mobilized On: | De-Mobilized On: |
| VAC-Trailer<br>PFD<br>Road saw | VIMEER<br>MSI | 3/6/14        |                  |

|                                            |              |
|--------------------------------------------|--------------|
| Deliveries to the Site today:              | Measurement: |
| Call-a-head<br>Pumpster / Roll-off (Aarco) |              |

|                  |                |                         |
|------------------|----------------|-------------------------|
| Health & Safety: |                |                         |
| Name             | Time (From-To) | Task/Level of PPE       |
| Mike<br>Alliegro | 0500 - 1700    | Hand clearing / Level D |

|                                                                                                                |                                                                                                                                                                                                                                           |                                            |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                                                                                                                                                                                                                                   | No ( <input checked="" type="checkbox"/> ) |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes ( <input checked="" type="checkbox"/> )      N/A ( )      *No ( )<br>Water: Yes ( <input checked="" type="checkbox"/> )      N/A ( )      *No ( )<br>Air: Yes ( <input checked="" type="checkbox"/> )      N/A ( )      *No ( ) | *If No, provide comments                   |

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions) |
|                                                                                                 |

Description of Daily Work Performed :

Hand Clearing NRW-1 to 5 feet.  
 Encountered 1 refusal @ 3 feet.  
 Found pipe in refusal hole.

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Friday

DATE:

3/7/14



Temperature (F°): AM/PM 20° F / 35° F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions: cloudy / cold  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papanecoleos

8

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alliegro  
Zach Berman

8

Sub-Contractor Personnel On-Site:

Hours Worked

Visitors On-Site:

|                                              |                                   |                         |                  |
|----------------------------------------------|-----------------------------------|-------------------------|------------------|
| Equipment On-Site:<br>VAC-Trailer<br>bas-saw | Vendor Name<br>Veemee r<br>Makita | Mobilized On:<br>3/6/14 | De-Mobilized On: |
|----------------------------------------------|-----------------------------------|-------------------------|------------------|

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

|                          |                               |                                              |
|--------------------------|-------------------------------|----------------------------------------------|
| Health & Safety:         |                               |                                              |
| Name<br>Mike<br>Alliegso | Time (From-To)<br>0530 - 1830 | Task/Level of PPE<br>Hand cleaning / Level D |

|                                                                                                                |                          |                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                  | No (X)          |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes (X)            | N/A ( ) *No ( ) |
|                                                                                                                | Water: Yes (X)           | N/A ( ) *No ( ) |
|                                                                                                                | Air: Yes (X)             | N/A ( ) *No ( ) |
|                                                                                                                | *If No, provide comments |                 |

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Presonnel conducting work, Corrective actions) |
|                                                                                                 |

Description of Daily Work Performed :

Hand cleared NRW-2 & NRW-3  
to 5 feet.

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Monday

DATE: 3/10/14



Temperature (F°): AM/PM 38° F / ° F

Wind Speed (MPH)/Direction: - mph

AM Weather Conditions: cloudy/cold

PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papaneocleous

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alliegro

Zach Berman

8.0

Sub-Contractor Personnel On-Site:

Hours Worked

Rain for Rent / Frack tank  
- cascade drilling

2.0

5.5 - waited for delivery

Visitors On-Site:

|                                                                                                                |                |                                          |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                            | De-Mobilized On: |
| Drill Rig<br>with<br>Accessories                                                                               | cascade        |                                          |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                             |                  |
| frak tank<br>Ect - Drilling material                                                                           |                |                                          |                  |
| Health & Safety:                                                                                               |                |                                          |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                        |                  |
|                                                                                                                |                |                                          |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the Items for concern) |                | Yes ( )                                  | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X)      N/A ( )      *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( )      N/A (X)      *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X)      N/A ( )      *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments                 |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                          |                  |
|                                                                                                                |                |                                          |                  |

## Description of Daily Work Performed:

pre-cleared NRW #4 TO 5' FT worked on  
 seconde concrete layer for  $\frac{1}{2}$  hr to clear

- NRW #5 Hit refusal AT 38", moved location west approx 2' ft  
 Hit seconde concrete layer  $\frac{1}{2}$  hr to clear both locations  
 cleared to 5' ft

- Exposed GAS pipe ON N. 12<sup>th</sup> ST next NRW #7 worked on for 1 hr 40 min's

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

## Project Schedule Issues:

TBD

## Project Budget Issues:

## Items of Concern:

## Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

## Stormwater, Erosion and Sedimentation Control Issues:

## Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



FAX # 508-393-5704

|                         |                             |                            |  |             |  |
|-------------------------|-----------------------------|----------------------------|--|-------------|--|
|                         |                             | Cascade Drilling Project # |  | 114-14-5511 |  |
| DATE:                   | 3-10-14                     |                            |  |             |  |
| REP:                    |                             |                            |  |             |  |
| COMPANY:                | EnviroTrac                  |                            |  |             |  |
| CREW MEMBERS:           | John Graglia                | D.duchnowski               |  |             |  |
| Travel:                 | 6                           | 6                          |  |             |  |
| On Site:                | 3.75                        | 3.75                       |  |             |  |
| Shop<br>Misc. Off Site: | 2                           | 2                          |  |             |  |
| JOB LOCATION:           | National Grid, Brooklyn, NY |                            |  |             |  |
| DRILL #                 | M1386                       |                            |  |             |  |

### Breakout Hourly Activity TIME

|             |                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0830 | Arrive AT Shop Turn in Paper work. Load up steam cleaner and 1/4 pallet of granular vul clay. Secure load. Make out log books. Circle check hook up to Bob CAT Trailer. Check brakeaway brake. |
| 0830 - 1400 | Travel From shop to Job site w/ Rig Tooling and well materials                                                                                                                                 |
| 1400 - 1745 | Arrive AT Job site. Unload Land-dol Trailer. Bob CAT Trailer and Cattle Truck. Stage well materials. wait on delivery From ECT of chip, sand and vul clay                                      |
| 1745 - 1815 | Travel From Job site.                                                                                                                                                                          |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |
|                                                      |          | 0     |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 3.75     |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3-10-14            |
| CLIENT REP:   | M. Ke. Ali. cgrd   |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. Graglia    |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY:

Tuesday

DATE:

3/11/18



Temperature (F°): AM/PM 40° F / 55° F

Wind Speed (MPH)/Direction: mph

AM Weather Conditions: clear &amp; sunny

PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papanicolaou  
Allen Zgalbardic

8 hrs

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alliegro  
Zach Berman  
Mike Rose

8 hrs

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade Drilling

8 hrs.

Visitors On-Site:

|                                                                                                                                                                                                    |                         |                                                                                                                             |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| Equipment On-Site:                                                                                                                                                                                 | Vendor Name             | Mobilized On:                                                                                                               | De-Mobilized On: |
| Air Knife<br>Trailer<br>Compressor<br>Drilling<br>Equipment                                                                                                                                        | Vemco<br>Ingersoll Rand |                                                                                                                             |                  |
| Deliveries to the Site today:                                                                                                                                                                      |                         | Measurement:                                                                                                                |                  |
|                                                                                                                                                                                                    |                         |                                                                                                                             |                  |
| Health & Safety:                                                                                                                                                                                   |                         |                                                                                                                             |                  |
| Name                                                                                                                                                                                               | Time (From-To)          | Task/Level of PPE                                                                                                           |                  |
| Mike<br>Alliegro                                                                                                                                                                                   | 0830-                   | Hand clearing                                                                                                               |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern)                                                                                     |                         | Yes ( )                                                                                                                     | No (X)           |
| Are monitoring results at acceptable levels?                                                                                                                                                       |                         | Soil: Yes (X) N/A ( ) *No ( )<br>Water: Yes ( ) N/A (X) *No ( )<br>Air: Yes (X) N/A ( ) *No ( )<br>*If No, provide comments |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                                                                                    |                         |                                                                                                                             |                  |
| <p>Observed oversight in work space while using<br/>Pneumatic &amp; Hand tools.</p> <p><u>Corrective Action:</u> Told oversight to stay in a clear<br/>area in order to reduce risk of injury.</p> |                         |                                                                                                                             |                  |

## Description of Daily Work Performed :

Hand clearing / Drilling

- Drilling on NRW#1 refused & abandoned @ 18 feet.
- NRW#7 obstruction @ 4 feet
- NRW#8 Hand cleared to 5 feet
- NRW#9 obstruction @ 18 inches.

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

## Project Schedule Issues:

TBD

## Project Budget Issues:

## Items of Concern:

## Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

## Stormwater, Erosion and Sedimentation Control Issues:

## Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



FAX # 508-393-5704

|                 |                             |                            |  |             |  |
|-----------------|-----------------------------|----------------------------|--|-------------|--|
|                 |                             | Cascade Drilling Project # |  | 114-14-6511 |  |
| DATE:           | 3-11-14                     |                            |  |             |  |
| REP:            |                             |                            |  |             |  |
| COMPANY:        | EnviroTrac                  |                            |  |             |  |
| CREW MEMBERS:   | John Graglia                | D.duchnowski               |  |             |  |
| Travel:         | 2                           | 2                          |  |             |  |
| On Site:        | 7                           | 7                          |  |             |  |
| Misc. Off Site: | 1.5                         | 1.5                        |  |             |  |
| JOB LOCATION:   | National Grid, Brooklyn, NY |                            |  |             |  |
| DRILL #         | M1386                       |                            |  |             |  |

### Breakout Hourly Activity TIME

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0600 - 0730 | Drive to meet Theseus half way between Brooklyn and STATIN Island TO PICK UP MAGNETS FOR HYDRAUNT Then Drive To Job Site                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0730 - 1245 | ARRIVE AT Job SITE wait for Earth Tech TO OPEN GATE TO SITE. HEALTH AND SAFETY MEETING. BEGIN MOVING RIG AND TOOKING TO NAW-1 SET UP RIG LAY DOWN PLASTIC FILL TWO WATER TANK. DRILL FROM 0 TO 20' w/ SAMPLE STARTING AT 5'. AT 14.5 HIT HARD OBSTRUCTION. DRILLED THRU w/ 9" core barrel. Core barrel drifted AT 18' PULL Core barrel. Then ADVANCE 10" without core barrel in hole TO 18' Then RESET core barrel could NOT ADVANCE Decision MADE TO PULL 10" TO SEE WHAT GOING ON PULL CASING BOTTOM 5' OF CASING BROKE OFF. Could NOT Recover broken 10" |
| 1600 - 1630 | TRAVEL FROM Job SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| DRILLING SCHEDULE OF ITEMS                                |                                                      | QUANTITY                                                                                                | UNITS |
|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|
|                                                           | Recovery Well Drilling                               |                                                                                                         | Feet  |
|                                                           | Recovery Well sump                                   |                                                                                                         | Each  |
|                                                           | Recovery Well Screen, Stainless Steel                |                                                                                                         | Feet  |
|                                                           | Recovery Well Screen, PVC                            |                                                                                                         | Feet  |
|                                                           | Recovery Well Riser, PVC                             |                                                                                                         | Feet  |
|                                                           | Surface completion                                   |                                                                                                         | Each  |
|                                                           | Well Development / Well                              |                                                                                                         | Each  |
|                                                           | NAPL Recovery Well Installation Attempted, Abandoned | 18'                                                                                                     | Feet  |
|                                                           | Standby Time                                         |                                                                                                         | Hours |
|                                                           |                                                      | 0                                                                                                       | 0     |
| Other Duties Performed Not Included in the Billable Items |                                                      | broke OFF BOTTOM 5' OF 10" CASING Tried TO Recover w/ 9" barrel could NOT Recover. HAD TO ABANDON hole. |       |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 7        |                                      |     |
| Footage Drilled        | 18'      |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         |                    |
| CLIENT REP:   | Mike Aliello       |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. GRAGLIA    |
| SIGNATURE:    | <i>[Signature]</i> |

ADVANCE 10" without core barrel in hole TO 18' Then RESET core barrel could NOT ADVANCE Decision MADE TO PULL 10" TO SEE WHAT GOING ON PULL CASING BOTTOM 5' OF CASING BROKE OFF. Could NOT Recover broken 10"

1245 TO 1415  
Drive to home for pallet of CEMENT AND RETURN TO SITE.

1415-1600  
UNLOAD CEMENT MOVE TO SITE SET UP FOR GROUTING GROUT FROM 13 TO 1 below grade clear grout equipment START MOVING RIG AND EQUIPMENT OFF SIDE WALL AND INTO FENCE COMPOUND

## DAILY FIELD REPORT

DAY: 3/17/14

DATE: Wednesday



Temperature (F°): AM/PM 40° F / ° F  
Wind Speed (MPH)/Direction: 5 mph E  
AM Weather Conditions: cloudy  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Allen

Andreas Papadopoulos

8.0

Nation Grid Personnel On-Site:

Hours Worked

Kyle, wasvieski, Donald Campbell

8:30 AM - 4:30 PM

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

Zach Berman

Mike Rose

8.0

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade Drilling

8.0

Visitors On-Site:

|                                       |             |               |                  |
|---------------------------------------|-------------|---------------|------------------|
| Equipment On-Site:                    | Vendor Name | Mobilized On: | De-Mobilized On: |
| Drilling Equipment<br>VERMEER TRAILER | VERMEER     |               |                  |

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

| Health & Safety: |                |                                 |
|------------------|----------------|---------------------------------|
| Name             | Time (From-To) | Task/Level of PPE               |
| Mike Aliaga      | 0500-          | Hand clearing, Drilling/Level D |

|                                                                                                                |                          |                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                  | No (X)          |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes ( )            | N/A ( ) *No ( ) |
|                                                                                                                | Water: Yes ( )           | N/A ( ) *No ( ) |
|                                                                                                                | Air: Yes ( )             | N/A ( ) *No ( ) |
|                                                                                                                | *If No, provide comments |                 |

|                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                                                         |
| <ul style="list-style-type: none"> <li>Donald Campbell performed safety audit.</li> <li>Took a brief pause from working, to discuss gas explosion in Harlem.</li> </ul> |

## Description of Daily Work Performed:

- Hand Clearing, Drilling
- Drilled into 8" & 24" abandoned pipes.
  - Hand cleared NRW-12 & 13
  - Drill rig broke down @ 40 feet.

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

## Project Schedule Issues:

TBD Pending 24" box resolution

## Project Budget Issues:

## Items of Concern:

## Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

## Stormwater, Erosion and Sedimentation Control Issues:

## Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT



DAY: Thursday

DATE:

3/13/14

Temperature (F°): AM/PM 60° F / 25° F

Wind Speed (MPH)/Direction: 28 mph

AM Weather Conditions:

PM Weather Conditions:

windy, cold.

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papadopoulos  
Allen Z

8.0 hrs.

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alliegro  
Zach Berman

8.0 hrs

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade Drilling

8.0 hrs  
(parts)

Visitors On-Site:

|                                                                                                                |                |                          |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:            | De-Mobilized On: |
| Drilling Equipment<br>Vac. Trailer                                                                             | Vermeer        |                          |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:             |                  |
|                                                                                                                |                |                          |                  |
| Health & Safety:                                                                                               |                |                          |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE        |                  |
| Mike<br>Alliego                                                                                                | 0500-          | Hand clearing / Level D  |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                  | No (x)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes ( )            | N/A ( ) *No ( )  |
|                                                                                                                |                | Water: Yes ( )           | N/A ( ) *No ( )  |
|                                                                                                                |                | Air: Yes ( )             | N/A ( ) *No ( )  |
|                                                                                                                |                | *If No, provide comments |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                          |                  |
|                                                                                                                |                |                          |                  |

Description of Daily Work Performed :

- Hand cleared NRW-6 & 7 to 5 feet
- Cleared NRW-10, found obstruction, moved location
- Drilling equipment fixed with new motor.

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

TBD pending gas resolution

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY:

FRIDAY

DATE:

03/14/14



Temperature (F°): AM/PM °F/ °F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions:  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papadopoulos  
Allen Z

- 8 hrs.  
- 6 hrs.

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Alligro  
Zach Berman  
Mike Rose

- 8.0  
- 8.0  
- 8.0

Sub-Contractor Personnel On-Site:

Hours Worked

Visitors On-Site:

|                                                                                                                |                          |                          |                                              |
|----------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|----------------------------------------------|
| Equipment On-Site:<br>Drilling<br>Equipment<br>Vermeer<br>Vac-Trailer                                          | Vendor Name<br>- Vermeer | Mobilized On:            | De-Mobilized On:<br>3/14/14<br>(Vac Trailer) |
| Deliveries to the Site today:                                                                                  |                          | Measurement:             |                                              |
|                                                                                                                |                          |                          |                                              |
| Health & Safety:                                                                                               |                          |                          |                                              |
| Name                                                                                                           | Time (From-To)           | Task/Level of PPE        |                                              |
| Mike<br>Allie                                                                                                  | 0500 -                   | Hard Clearing / Drilling |                                              |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                          | Yes ( )                  | No <input checked="" type="checkbox"/>       |
| Are monitoring results at acceptable levels?                                                                   |                          | Soil: Yes ( )            | N/A ( ) *No ( )                              |
|                                                                                                                |                          | Water: Yes ( )           | N/A ( ) *No ( )                              |
|                                                                                                                |                          | Air: Yes ( )             | N/A ( ) *No ( )                              |
|                                                                                                                |                          | *If No, provide comments |                                              |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                          |                          |                                              |
|                                                                                                                |                          |                          |                                              |

## Description of Daily Work Performed:

- Hand cleared NRW-10 & NRW-2A to 5 feet
- Exposed 24" gas line next to NRW-11
- Drilled @ NRW-2 to 65 feet
- Re-mobilized Vac-trailer

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

TBD pending grow resolution

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

monday  
DAY: 3/17/14 DATE:Temperature (F°): AM/PM 78° F / ° F  
Wind Speed (MPH)/Direction: 15 mph  
AM Weather Conditions: cloudy  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas POPANEOLKOJUS

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

8.5

Sub-Contractor Personnel On-Site:

Hours Worked

calside Dr. 11/14

8.5

Visitors On-Site:

|                                                                                                                |                |                                                                |                                        |
|----------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------|----------------------------------------|
| Equipment On-Site:<br>Drill Rig<br>and Equipment                                                               | Vendor Name    | Mobilized On:                                                  | De-Mobilized On:                       |
| Deliveries to the Site today:                                                                                  |                | Measurement:                                                   |                                        |
| Health & Safety:                                                                                               |                |                                                                |                                        |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                                              |                                        |
| Mike Allegro                                                                                                   |                | D                                                              |                                        |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                                        | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes <input checked="" type="checkbox"/> N/A ( ) *No ( )  |                                        |
|                                                                                                                |                | Water: Yes <input checked="" type="checkbox"/> N/A ( ) *No ( ) |                                        |
|                                                                                                                |                | Air: Yes ( ) N/A ( ) *No ( )                                   |                                        |
|                                                                                                                |                | *If No, provide comments                                       |                                        |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                                                |                                        |
| Ice condition due to water around Drill Rig, used rock salt<br>to prevent S/t/f                                |                |                                                                |                                        |

Description of Daily Work Performed:

Installed NRW#2 TO 65' FT well Installed to  
SPEC, EXCEPT Added Bentonite Between two screen zones ~~from~~ From  
30'-34' URS changed well spec

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date: 3/17/14

Signature:





**FAX # 508-393-5704**

|                                                  |                     |                                               |  |
|--------------------------------------------------|---------------------|-----------------------------------------------|--|
| DATE: <u>3-17-14</u>                             |                     | Cascade Drilling Project # <u>114-14-6511</u> |  |
| REP:                                             |                     |                                               |  |
| COMPANY: <u>EnviroTrac</u>                       |                     |                                               |  |
| CREW MEMBERS:                                    | <u>John Graglia</u> | <u>D.duchnowski</u>                           |  |
| Travel:                                          | <u>4.50</u>         | <u>4.50</u>                                   |  |
| On Site:                                         | <u>8.25</u>         | <u>8.25</u>                                   |  |
| Shop:                                            | <u>.75</u>          | <u>.75</u>                                    |  |
| JOB LOCATION: <u>National Grid, Brooklyn, NY</u> |                     |                                               |  |
| DRILL # <u>M1386</u>                             |                     |                                               |  |

**Breakout Hourly Activity**  
**TIME**

|             |                                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0300 - 0345 | Arrive AT SHOP LOAD RACK OF 6" TOOLING, 3 5'X10" Pieces OF CASING, ASSORTED BITS, 6" CLAMP FOR SETTING WELLS Chain wrenches and long hose for VAC secure load.                                                                                          |
| 0345 - 0745 | TRAVEL FROM SHOP TO Job SITE.                                                                                                                                                                                                                           |
| 0745 - 1600 | ARRIVE AT SITE WARM UP RIG AND Bob CAT Pre INSPECTION move RIG TO NRW 2 SETUP MOVE 65' OF WELL MATERIAL TO SIT INSTALL WELL SAND PACK AND CHIP THEN GROUT TAKE RIG DOWN MOVE BACK INSIDE FENCED AREA. FILL WATER TANKS PUMP OFF 9 DUMPS INTO FRAC TANK. |
| 1600 - 1630 | TRAVEL FROM Job SITE                                                                                                                                                                                                                                    |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| NRW 2 Recovery Well sump                             | 1        | Each  |
| NRW 2 Recovery Well Screen, Stainless Steel          | 35'      | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             | 25'      | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items 1 1/2" BAGS OF Bentonite chip used AT 19' to 17' FOR SEAL.

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 8.25     |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   | 65'      |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                          |
|---------------|--------------------------|
| DATE:         | <u>3-17-14</u>           |
| CLIENT REP:   | <u>M. Ke. All. et al</u> |
| SIGNATURE:    | <u>[Signature]</u>       |
| BLY OPERATOR: | <u>John A. Graglia</u>   |
| SIGNATURE:    | <u>John A. Graglia</u>   |

## DAILY FIELD REPORT

DAY: Tuesday

DATE: 3/18/14



Temperature (F°): AM/PM 78° F / 46° F  
 Wind Speed (MPH)/Direction: E / mph 11  
 AM Weather Conditions: SUNNY  
 PM Weather Conditions: SUNNY

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andres Sporenaculis

8.0

Nation Grid Personnel On-Site:

Hours Worked

Donald Campbell

.5

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

10.0

Sub-Contractor Personnel On-Site:

Hours Worked

~~Caldecott Drilling~~  
 Caldecott Drilling

10.0

Visitors On-Site:

Hank Williams NYSDEC

|                                                                                                                |                |                                                                                                                                                                                     |                                        |
|----------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                                                                                                                                                                       | De-Mobilized On:                       |
| Drill Rig                                                                                                      | Cascade        |                                                                                                                                                                                     |                                        |
| Deliveries to the Site today:                                                                                  |                | Measurement:                                                                                                                                                                        |                                        |
|                                                                                                                |                |                                                                                                                                                                                     |                                        |
| Health & Safety:                                                                                               |                |                                                                                                                                                                                     |                                        |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                                                                                                                                                                   |                                        |
| Mike Alliegro                                                                                                  | 7:00-17:00     | D                                                                                                                                                                                   |                                        |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                                                                                                                                                             | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes <input checked="" type="checkbox"/> N/A ( )      *No ( )<br>Water: Yes ( )      N/A ( )      *No ( )<br>Air: Yes <input checked="" type="checkbox"/> N/A ( )      *No ( ) |                                        |
|                                                                                                                |                | *If No, provide comments                                                                                                                                                            |                                        |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                                                                                                                                                                     |                                        |
|                                                                                                                |                |                                                                                                                                                                                     |                                        |

Description of Daily Work Performed :

- Drilled TO 65' FT TO collect SOIL samples w/6" casing  
- Drilled 10" casing TO 60' FT for the day  
will set well TO 60' FT on 3/19/14

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



**FAX # 508-393-5704**

|                            |                             |              |  |
|----------------------------|-----------------------------|--------------|--|
| Cascade Drilling Project # |                             | 114-14-6511  |  |
| DATE:                      | 3-18-14                     |              |  |
| REP:                       |                             |              |  |
| COMPANY:                   | EnviroTrac                  |              |  |
| CREW MEMBERS:              | John Graglia                | D.duchnowski |  |
| Travel:                    | 1                           | 1            |  |
| On Site:                   | 10.50                       | 10.50        |  |
| Misc. Off Site:            |                             |              |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |              |  |
| DRILL #                    | M1386                       |              |  |

**Breakout Hourly Activity**  
**TIME**

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630-0700 | TRAVEL TO Job SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 0700-1730 | ARRIVE AT SITE UNLOCK GATE FUEL UP RIG AND Bob CAT.<br>Pre INSPECTION WARM UP RIG AND Bob CAT WAIT FOR ENVIRO<br>TRAC REP TO OPEN SIDE GATE. BEGIN MOVING RIG AND 6" TOOLING<br>TO NRW-1 SET UP CIR. PAN AND RIG. MOVE WATER TANKS AND<br>Bob CAT bucket TO SITE. DRILL W/ 6" CASING AND 4.75 CORE<br>BARREL FROM 0 TO 65' w/ SAMPLES CONTINUES FROM 5' TO 65'<br>THEN PULL 6" CASING WASH DOWN CASING WHILE PULLING OUT.<br>MOVE 6" BACK TO FENCED IN AREA AND MOVE 10" CASING AND 9" CORE BARREL TO |
| 1730-1800 | TRAVEL TO Job SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| DRILLING SCHEDULE OF ITEMS                                |                                                      | QUANTITY                                                                                         | UNITS |
|-----------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------|
| NRW 1                                                     | Recovery Well Drilling                               | 65'                                                                                              | Feet  |
|                                                           | Recovery Well sump                                   |                                                                                                  | Each  |
|                                                           | Recovery Well Screen, Stainless Steel                |                                                                                                  | Feet  |
|                                                           | Recovery Well Screen, PVC                            |                                                                                                  | Feet  |
|                                                           | Recovery Well Riser, PVC                             |                                                                                                  | Feet  |
|                                                           | Surface completion                                   |                                                                                                  | Each  |
|                                                           | Well Development / Well                              |                                                                                                  | Each  |
|                                                           | NAPL Recovery Well Installation Attempted, Abandoned |                                                                                                  | Feet  |
| Standby Time                                              |                                                      | 0                                                                                                | Hours |
| Other Duties Performed Not Included in the Billable Items |                                                      | 6" CASING DRILLED TO 65' w/ SAMPLES<br>10" CASING DRILLED TO 60' FOR WELL SETTING IN<br>MORNING. |       |

SITE. MOVE DRUMS  
VAC AND GENERATE  
TO SITE. BEGIN  
DRILLING FROM 0  
TO 60' w/ 10" CASING  
AND 9" CORE BARREL  
FINISH DRILLING  
TAKE RIG DOWN  
MOVE RIG WATER  
TANKS AND TOOLING  
FROM SIDEWALK  
TO FENCED IN AREA  
MOVE 5 DRUMS  
TO FRAC TANK.  
WINTERIZE PUMP  
ON RIG FILL BOTH  
WATER TANKS

| ITEM                   | Quantity       | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------------|--------------------------------------|-----|
| Hours On Site          | 10.50          |                                      |     |
| Footage Drilled        | 65'            |                                      |     |
| Well Installed (FT.)   |                |                                      |     |
| Boring Abandoned (FT.) |                |                                      |     |
| DATE: 3-18-14          |                |                                      |     |
| CLIENT REP:            | Mike Alliegro  |                                      |     |
| SIGNATURE:             |                |                                      |     |
| BLY OPERATOR:          | John A Graglia |                                      |     |
| SIGNATURE:             |                |                                      |     |

## DAILY FIELD REPORT

DAY: *wednesday* DATE: *3/19/14*

Temperature (F°): AM/PM *28*° F / ° F  
Wind Speed (MPH)/Direction: *7* mph *N/E*  
AM Weather Conditions: *sunny / 1012*  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

*ANDREAS POPENALOVIS**8.5*

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

*Mike Allegio**10.0*

Sub-Contractor Personnel On-Site:

Hours Worked

*cas calde**10.0*

Visitors On-Site:

*HANK WILLIAMS nyspec*

|                                                                                                                                                                                                                    |                |                   |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------|
| Equipment On-Site:                                                                                                                                                                                                 | Vendor Name    | Mobilized On:     | De-Mobilized On: |
| Drilling<br>w/Equipment                                                                                                                                                                                            |                |                   |                  |
| Deliveries to the Site today:                                                                                                                                                                                      |                | Measurement:      |                  |
|                                                                                                                                                                                                                    |                |                   |                  |
| Health & Safety:                                                                                                                                                                                                   |                |                   |                  |
| Name                                                                                                                                                                                                               | Time (From-To) | Task/Level of PPE |                  |
| Mr. Ke Allegro                                                                                                                                                                                                     | 7:00 - 17:00   | D                 |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern)                                                                                                     |                |                   |                  |
|                                                                                                                                                                                                                    |                | Yes ( )           | No (X)           |
| Are monitoring results at acceptable levels?                                                                                                                                                                       |                |                   |                  |
|                                                                                                                                                                                                                    |                | Soil: Yes (X)     | N/A ( ) *No ( )  |
|                                                                                                                                                                                                                    |                | Water: Yes ( )    | N/A ( ) *No ( )  |
|                                                                                                                                                                                                                    |                | Air: Yes (X)      | N/A ( ) *No ( )  |
| *If No, provide comments                                                                                                                                                                                           |                |                   |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                                                                                                    |                |                   |                  |
| safety moment to discuss incident in N.J. contractor<br>struck gas line. (corrective actions) Always be aware<br>of surroundings, identify all markouts prior to work.<br>stop work if and change occurs in scope. |                |                   |                  |

## Description of Daily Work Performed:

- Installed well AT NRW#1 (RE-DRILL) TO 60' FT W/ 5' AT S/S SUMP  
25' PVC, 10' FT Riser PVC, 5/8" screen 10' FT, 10' FT PVC Riser
- Drilled NRW#10 for samples TO 60' FT HIT CLAY AT 47' FT  
NOT 57' FT.

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



**FAX # 508-393-5704**

|                            |                             |              |  |
|----------------------------|-----------------------------|--------------|--|
| Cascade Drilling Project # |                             | 114-14-6511  |  |
| DATE:                      | 3-19-14                     |              |  |
| REP:                       |                             |              |  |
| COMPANY:                   | EnviroTrac                  |              |  |
| CREW MEMBERS:              | John Graglia                | D.duchnowski |  |
| Travel:                    | 1                           | 1            |  |
| On Site:                   | 10                          | 10           |  |
| Misc. Off Site:            |                             |              |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |              |  |
| DRILL #                    | M1386                       |              |  |

**Breakout Hourly Activity**  
**TIME**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | Travel To Job site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0700 - 1700 | Arrive AT SITE OPEN FRONT GATE Pre inspection on Rig and Bob CAT. WARM UP RIG AND BOB CAT. HEALTH AND SAFETY MEETING<br>Begin move BACK TO NRW 2 For setting of well load well materials on Bob CAT AND MOVE TO well NRW 2. Move sand pack and chip to well site Begin setting SET 5'x6" SS sump w/ 25'x6" 020 shot PVC V wire screen Then 10'x6" PVC Riser followed by 10'x6" SS 020 shot screen AND 10'x6" PVC Riser chip From 60' to 55' Then #0 pack From 55' to 29', Then bentonite chip From 29' to 20' Then #0 PAC |
| 1700 - 1730 | Travel From Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| DRILLING SCHEDULE OF ITEMS |                                                      | QUANTITY | UNITS |
|----------------------------|------------------------------------------------------|----------|-------|
| NRW 10                     | Recovery Well Drilling                               | 60'      | Feet  |
| NRW 1                      | Recovery Well sump                                   | 1        | Each  |
| NRW 1                      | Recovery Well Screen, Stainless Steel                | 10'      | Feet  |
| NRW 1                      | Recovery Well Screen, PVC                            | 25'      | Feet  |
| NRW 1                      | Recovery Well Riser, PVC                             | 20'      | Feet  |
|                            | Surface completion                                   |          | Each  |
|                            | Well Development / Well                              |          | Each  |
|                            | NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
|                            | Standby Time                                         | 0        | Hours |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10       |                                      |     |
| Footage Drilled        | 60'      |                                      |     |
| Well Installed (FT.)   | 60'      |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3-19-14            |
| CLIENT REP:   | Mike Allard        |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. Graglia    |
| SIGNATURE:    | <i>[Signature]</i> |

From 20' to 9' bentonite chip From 9' to 7' set up for grout. 6' to 7' to 2' below grade. Also top of grout at NRW 2 From 5' to 2' below grade clean grout equipment Begin move to next location NRW 1. Move rig and C. PAN to well site. Set PAN SET UP Riser 6" Tooling water tanks a drum vac. clean up at NRW 1. Then Begin Drilling NRW 10 From 10' w/ continues samples from 5' in counter 4' boulder from 20' and clay from 47' to 60' will pull 6" casing in morning. Take a down and off side walk and if fenced in area also move tooling then load sample

into Bob CAT bucket and dump. ROLLOFF secure rig for thening.

## DAILY FIELD REPORT

DAY: *Thurs day* DATE: *3/20/14*

Temperature (F°): AM/PM *82° F / 50° F*  
Wind Speed (MPH)/Direction: *15 mph W/SW*  
AM Weather Conditions: *SUNNY/COOL*  
PM Weather Conditions: *SUNNY/COOL*

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

*Andreas Papendavies*

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

*Mike Alliegro*

Sub-Contractor Personnel On-Site:

Hours Worked

*cascade*

Visitors On-Site:

|                                                                                                                |                |                                |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                  | De-Mobilized On: |
| Drilling Equip                                                                                                 |                |                                |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                   |                  |
|                                                                                                                |                |                                |                  |
| Health & Safety:                                                                                               |                |                                |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE              |                  |
| Mike Aliaga                                                                                                    | 7:00 - 17:00   | D                              |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                        | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X) N/A ( ) *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( ) N/A ( ) *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X) N/A ( ) *No ( )   |                  |
|                                                                                                                |                | *If NO, provide comments       |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                |                  |
|                                                                                                                |                |                                |                  |

## Description of Daily Work Performed:

Drilled 10" casing to set well AT NRW #10 to  
55' FT, set 6" well to 55' FT w/ 5' FT steel sump  
35' FT steel screen, 15' FT PVC riser

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



**FAX # 508-393-5704**

|                            |                             |             |  |
|----------------------------|-----------------------------|-------------|--|
| Cascade Drilling Project # |                             | 114-14-6511 |  |
| DATE:                      | 3-24-14                     |             |  |
| REP:                       |                             |             |  |
| COMPANY:                   | EnviroTrac                  |             |  |
| CREW MEMBERS:              | John Graglia                | Mike Bond   |  |
| Travel:                    | 1                           | 1           |  |
| On Site:                   | 10.50                       | 10.50       |  |
| Misc. Off Site:            |                             |             |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |  |
| DRILL #                    | M1386                       |             |  |

**Breakout Hourly Activity**  
**TIME**

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630-0700 | TRAVEL TO JOB SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 0700-1730 | ARRIVE AT SITE OPEN GATE TO SITE, PRE INSPECTION ON RIG WARM UP RIG AND BOBCAT. HEALTH AND SAFETY MEETING BEGIN MOVING RIG AND DIR. PAN TO NRW-8 SETUP PAN THEN RIG MOVE RACK OF 6" CASING AND ROD RACK TO SITE. PUMP OFF SEVERAL DRUMS INTO FRAC TANK. BEGIN DRILLING NRW-8 FROM 0 TO 60' w/ SAMPLES STARTING AT 5' DRILL TO 60' SETUP GENERATOR AND VAC. PULL 6" CASING MOVE RACK OF 6" INSIDE FENCED AREA MOVE 10" TO DRILL SITE AND 9" CORE BARREL DRILL TO 55' WILL PULL CORE BARREL IN MORNING TAKE RIG DOWN MOVE RIG AND EQUIPMENT BACK INSIDE FENCED AREA. SECURE HO. FOR THE NIGHT. WINTERIZED PUMP ON RIG. |
| 1730-1800 | TRAVEL FROM JOB SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| DRILLING SCHEDULE OF ITEMS                           |  | QUANTITY | UNITS |
|------------------------------------------------------|--|----------|-------|
| NRW 8                                                |  | 60'      | Feet  |
| Recovery Well Drilling                               |  |          | Each  |
| Recovery Well sump                                   |  |          | Feet  |
| Recovery Well Screen, Stainless Steel                |  |          | Feet  |
| Recovery Well Screen, PVC                            |  |          | Feet  |
| Recovery Well Riser, PVC                             |  |          | Each  |
| Surface completion                                   |  |          | Each  |
| Well Development / Well                              |  |          | Feet  |
| NAPL Recovery Well Installation Attempted, Abandoned |  |          | Hours |
| Standby Time                                         |  | 0        | 0     |

|                                                           |  |  |  |
|-----------------------------------------------------------|--|--|--|
| Other Duties Performed Not Included in the Billable Items |  |  |  |
|                                                           |  |  |  |
|                                                           |  |  |  |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.50    |                                      |     |
| Footage Drilled        | 60'      |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3-24-14            |
| CLIENT REP:   | Mike Allred        |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. Graglia    |
| SIGNATURE:    | <i>[Signature]</i> |



508-393-5704  
FAX # 508.936.1058

|                                        |                             |       |           |  |
|----------------------------------------|-----------------------------|-------|-----------|--|
| Cascade Drilling Project # 114-14-6511 |                             |       |           |  |
| DATE:                                  | 3/24/14                     |       |           |  |
| REP:                                   |                             |       |           |  |
| COMPANY:                               | EnviroTrac                  |       |           |  |
| CREW MEMBERS:                          | MARSH                       | RUGER | CARDIELLA |  |
| Travel:                                | 5.5                         |       |           |  |
| On Site:                               | 6.5                         | 6.5   | 6.5       |  |
| Misc. Off Site:                        | 2                           |       |           |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |       |           |  |
| DRILL #                                | SR103                       |       |           |  |

### Breakout Hourly Activity TIME

|           |                                                |
|-----------|------------------------------------------------|
| 7-830     | TRAVEL TO CT / FILL TRUCK TIRES (LOW AIR)      |
| 830-1030  | MOVE EQUIPMENT TO BROOKLYN NY                  |
| 1030/1230 | UNLOAD EQUIPMENT / SET UP ON NRW-03            |
| 1230/1330 | SET GUB / FILL <del>AT</del> HAND CLEARED HOLE |
|           | W/ CHIP TO SEAL                                |
| 1330-     | DRILL D-17 / TUB LEAKED                        |
| 1630      | CLEAN SITE                                     |
| 1630-1700 | WINTERIZE SECURE EQUIP                         |
| 1700-     | RETURN GUYS TO TRUCKS                          |
| 2030      | LOAD WATER TOTE + PVC CASING FOR PIT.          |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               | 17       | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items

MOVE EQUIPMENT

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 6.5      | TUB LEAK / CLEAN UP.                 | 1.5 |
| Footage Drilled        | 17       |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3/24/14            |
| CLIENT REP:   | M. YEAN (gr.)      |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | CARDIELLA          |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Tuesday DATE: 3/25/14



Temperature (F°): AM/PM 31° F / ° F  
Wind Speed (MPH)/Direction: 5 mph S / S E  
AM Weather Conditions:  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

T.M. IFKovich  
Andreas Pappadopoulos

9.0  
8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

M. Ke A. egro

9.0

Sub-Contractor Personnel On-Site:

Hours Worked

cascade Drilling

9.0

Visitors On-Site:

|                                                   |             |               |                  |
|---------------------------------------------------|-------------|---------------|------------------|
| Equipment On-Site:<br>min. Drill Rig<br>truck Rig | Vendor Name | Mobilized On: | De-Mobilized On: |
|                                                   |             |               |                  |

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

| Health & Safety: |                |                   |
|------------------|----------------|-------------------|
| Name             | Time (From-To) | Task/Level of PPE |
| Mike Allegro     | 7:30 - 16:30   | D                 |

|                                                                                                                |                                                                                                 |        |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                                                                                         | No (X) |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes (X) N/A ( ) *No ( )<br>Water: Yes ( ) N/A ( ) *No ( )<br>Air: Yes (X) N/A ( ) *No ( ) |        |
| *If No, provide comments                                                                                       |                                                                                                 |        |

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions) |
|                                                                                                 |

## Description of Daily Work Performed:

- Set NRW#8 to 54' FT (5' FT 6/5 sump) 35' FT PVC screen 19' FT A. Ser
- Installed steel plates over well's
- NRW#3 Rig down for 1 1/2, drilled to 60' FT clay AT APPROX 54' FT
- Drilling polr leaking cleaned up

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



FAX # 508-393-5704

|                            |                             |             |  |
|----------------------------|-----------------------------|-------------|--|
| Cascade Drilling Project # |                             | 114-14-6511 |  |
| DATE:                      | 3-25-14                     |             |  |
| REP:                       |                             |             |  |
| COMPANY:                   | EnviroTrac                  |             |  |
| CREW MEMBERS:              | John Graglia                | Mike Bond   |  |
| Travel:                    | 1                           | 1           |  |
| On Site:                   | 9.50                        | 9.50        |  |
| Misc. Off Site:            |                             |             |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |  |
| DRILL #                    | M1386                       |             |  |

### Breakout Hourly Activity

#### TIME

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | TRAVEL TO JOB SITE.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 0700 - 1630 | ARRIVE AT SITE OPEN GATE TO SITE. FUEL UP RIG AND BOB CAT<br>PRE INSPECTION WARM UP RIG. HEALTH AND SAFETY. MOVE<br>RIG AND TOOLING BACK TO NRW-8 SETUP RIG. PULL 9" CORE<br>BARREL AT 55' AND EMPTY. RESET AND DRILL TO 60' w/ 9" AND<br>10" CASING. PULL CORE BARREL. THEN GET 6" WELL MATERIALS<br>AND GRAVEL PACK AND CHIP. BEGIN SETTING WELL SET 5'<br>X 6" SS SUMP w/ 35' X 6" 020 V WIRE PVC SCREEN 20' X 6"<br>PVC RISER BENTONITE CHIP FROM 60 TO 54' THEN #0 PACK |
| 1630 - 1700 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| NRW-8 Recovery Well sump                             | 1        | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| NRW-8 Recovery Well Screen, PVC                      | 35       | Feet  |
| NRW-8 Recovery Well Riser, PVC                       | 20       | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 9.50     |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   | 59'      |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3-25-14            |
| CLIENT REP:   | M. KC Allegro      |
| SIGNATURE:    | <i>[Signature]</i> |
| PLY OPERATOR: | John A Graglia     |
| SIGNATURE:    | <i>[Signature]</i> |

From 54' to 18'  
Then Chip From  
18' to 16' Set up  
for grout dump  
Three Drums of  
SOIL INTO ROLL  
OFF. Grout From  
16' to 2' below  
grade. Clean  
grout equipme.  
Take Rig down.  
move Drums to  
FRAC TANK MOV  
RIG AND TOOLING  
BACK INTO FENCE  
AREA INSTALL  
STEEL PLATES AT  
NRW-1, 2, 10 A  
8 FILL WATER  
SETUP CIRPAN R  
NRW 12 One of  
AREA AROUND N  
12. winterize  
PUMP ON RIG seco  
RIG AND BOB C  
For The night.



CASCADE DRILLING, L.P.  
LEADERS IN SAFETY

508-398-5704  
FAX # 508.936.1058

|                            |                             |             |           |
|----------------------------|-----------------------------|-------------|-----------|
| Cascade Drilling Project # |                             | 114-14-6511 |           |
| DATE:                      | 3/25/14                     |             |           |
| REP:                       |                             |             |           |
| COMPANY:                   | EnviroTrac                  |             |           |
| CREW MEMBERS:              | MARSH                       | QUEEN       | CARDIELLA |
| Travel:                    | 3                           | 2           | 1         |
| On Site:                   | 10                          | 10          | 10        |
| Misc. Off Site:            | .5                          |             |           |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |           |
| DRILL #                    |                             |             |           |

### Breakout Hourly Activity

#### TIME

|           |                                                  |
|-----------|--------------------------------------------------|
| 7-8       | ON SITE / HRS / WARM EQUIP.                      |
| 8-930     | SET 14" CASING (PIT PIPE)                        |
| 930-1130  | DRILL 17'-47' / REPLACE BOLTS ON HEAD FLANGE     |
| 1130-1300 | REPLACE BOLTS                                    |
| 13-1600   | DRILL 47'-60' / BLOW LEAK / CLEAN UP DRILL WATER |
| 16-17     | IDW / CLEAN DRILL LOCATION                       |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               | 43       | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10       | REPLACE HEAD FLANGE BOLTS            | 1.5 |
| Footage Drilled        | 43       | CLEAN DRILL WATER BLOW BY            | 2   |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3/25/14            |
| CLIENT REP:   |                    |
| SIGNATURE:    |                    |
| BLY OPERATOR: | C. MARSH           |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: *wednesday* DATE: *3/26/14*

Temperature (F°): AM/PM *33° F / ° F*  
Wind Speed (MPH)/Direction: *30mph N/NW*  
AM Weather Conditions: *cloudy*  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

*T.M. FfKOVICH**Andreas Papenacostas*

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

*Mike Alliegro*

Sub-Contractor Personnel On-Site:

Hours Worked

*Cascade-5 boys*

Visitors On-Site:

|                                                                                                                                                                                                                                                                                                                                                |                |                                                                                                                               |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|
| Equipment On-Site:                                                                                                                                                                                                                                                                                                                             | Vendor Name    | Mobilized On:                                                                                                                 | De-Mobilized On: |
| M.N. DRILL RIG<br>TRUCK RIG                                                                                                                                                                                                                                                                                                                    |                |                                                                                                                               |                  |
| Deliveries to the Site today:                                                                                                                                                                                                                                                                                                                  |                | Measurement:                                                                                                                  |                  |
|                                                                                                                                                                                                                                                                                                                                                |                |                                                                                                                               |                  |
| Health & Safety:                                                                                                                                                                                                                                                                                                                               |                |                                                                                                                               |                  |
| Name                                                                                                                                                                                                                                                                                                                                           | Time (From-To) | Task/Level of PPE                                                                                                             |                  |
| Mike Allegro                                                                                                                                                                                                                                                                                                                                   | 7:30-          | D                                                                                                                             |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern)                                                                                                                                                                                                                                 |                | Yes ( )                                                                                                                       | No (X)           |
| Are monitoring results at acceptable levels?                                                                                                                                                                                                                                                                                                   |                | Soil: Yes (X)      N/A ( )      *No ( )<br>Water: Yes ( )      N/A ( )      *No ( )<br>Air: Yes (X)      N/A ( )      *No ( ) |                  |
| *If No, provide comments                                                                                                                                                                                                                                                                                                                       |                |                                                                                                                               |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                                                                                                                                                                                                                                |                |                                                                                                                               |                  |
| <ul style="list-style-type: none"> <li>- High wind warning, wind gusts AT 30-50 MPH</li> <li>- corrective action IS TO secure loose debris, fences, drums</li> <li>SOIL CONTAINMENT, TRAFFIC BARRIERS, and Be aware of flying objects</li> <li>- cold stress due to wind chill</li> <li>- DUST AND DIRT IN EYES/wear safety glasses</li> </ul> |                |                                                                                                                               |                  |

## Description of Daily Work Performed:

- INSTALLED NRW#3 TO 60' FT W/ 5' FT S/S SUMP, 25' FT PVC SCREEN 30' FT RISER
- MOVED TO NRW#4 DRILLED 10" CASSING TO 8' FT
- DRILLED NRW#12 TO 60' FT FOR SAMPLING, DRILLED 10" CASSING TO 45'

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



3/26/14



FAX # 508-393-5704

|                                        |                             |              |  |  |
|----------------------------------------|-----------------------------|--------------|--|--|
| Cascade Drilling Project # 114-14-6511 |                             |              |  |  |
| DATE:                                  | 3-26-14                     |              |  |  |
| REP:                                   |                             |              |  |  |
| COMPANY:                               | EnviroTrac                  |              |  |  |
| CREW MEMBERS:                          | John Graglia                | D.duchnowski |  |  |
| Travel:                                | 1                           | 1            |  |  |
| On Site:                               | 9.75                        | 9.75         |  |  |
| Misc. Off Site:                        |                             |              |  |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |              |  |  |
| DRILL #                                | M1386                       |              |  |  |

### Breakout Hourly Activity TIME

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630-0700 | Travel To Job Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0700-1645 | Arrive AT Site OPEN GATE TO SITE. PRE INSPECTION ON RIG AND BOB CAT. HEALTH AND SAFETY, BEGIN MOVING RIG AND TOOLING TO NRW-12. SETUP RIG AND 6" TOOLING EMPTY 4 SAIL DRUMS INTO ROLL OFF. DRILL FROM 0 TO 60' w/ SAMPLING FROM 5' TO 60'. THEN PULL 6" CASING MOVE RACK INTO FENCED AREA. THEN MOVE 10" CASING AND 9" CORE BARREL TO SITE SETUP VAC AND GENERATOR. START DRILLING 10" FROM 0 TO 45. CLEANED OUT CIR. PAN 3 TIMES THEN RUN 9" CORE BARREL FROM 45 TO 55' OUT OF WATER. START MOVING EQUIPMENT INTO FENCED AREA. TAKE RIG DOWN AND MOVE INSIDE. MOVE 3 FULL DR. TO FRAC TANK. DUMP BOB CAT BUCKET INTO ROLL. WILL ADVANCE 10' FROM 45 TO 55' IN MORNING. WINTERIZE PUMP ON RIG. ALSO NEED TO PUMP OFF 3 DRUMS INTO FRAC TANK AND FILL WATER TANKS. |
| 1645-1715 | Travel From Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| NRW 12 Recovery Well Drilling                        | 55'      | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 9.75     |                                      |     |
| Footage Drilled        | 55'      |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3-26-14            |
| CLIENT REP:   | Mike Allegro       |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. Graglia    |
| SIGNATURE:    | <i>[Signature]</i> |



508-398-5704  
FAX # 508-988-1458

|                 |       |                             |            |                                        |  |
|-----------------|-------|-----------------------------|------------|----------------------------------------|--|
| DATE:           |       | 3/26/14                     |            | Cascade Drilling Project # 114-14-6511 |  |
| REP:            |       |                             |            |                                        |  |
| COMPANY:        |       | EnviroTrac                  |            |                                        |  |
| CREW MEMBERS:   | MARSH | RUEEN                       | CARDABELLA |                                        |  |
| Travel:         | 2.5   | 2                           | 1          |                                        |  |
| On Site:        | 10    | 10                          | 10         |                                        |  |
| Misc. Off Site: | 51    |                             |            |                                        |  |
| JOB LOCATION:   |       | National Grid, Brooklyn, NY |            |                                        |  |
| DRILL #         |       | SR103                       |            |                                        |  |

### Breakout Hourly Activity TIME

|           |                                        |
|-----------|----------------------------------------|
| 7-8       | WORM EQUIP / 10W                       |
| 8-830     | GATHER WELL MATERIAL                   |
| 830-1230  | SET WELL NRW-03 260' 6x25x.020 / GROUT |
| 1230-1400 | 10W                                    |
| 1400-     | MOVE TO NRW-04 SET UP                  |
| 1630      | SET 12" CASING TO B'                   |
| 1630-1700 | WINTERIZED SECURE EQUIP                |
|           |                                        |
|           |                                        |
|           |                                        |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS   |
|------------------------------------------------------|----------|---------|
| Recovery Well Drilling                               |          | Feet    |
| Recovery Well sump                                   | 1        | 5' Each |
| Recovery Well Screen, Stainless Steel                |          | Feet    |
| Recovery Well Screen, PVC                            | 25       | Feet    |
| Recovery Well Riser, PVC                             | 30       | Feet    |
| Surface completion                                   |          | Each    |
| Well Development / Well                              |          | Each    |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet    |
| Standby Time                                         |          | Hours   |
|                                                      | 0        | 0       |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10       |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   | 60       |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 3/26/14            |
| CLIENT REP:   | Mike Allen         |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: |                    |
| SIGNATURE:    |                    |

## DAILY FIELD REPORT

DAY: Thursday

DATE: 3/27/14



Temperature (F°): AM/PM 72° F / ° F  
Wind Speed (MPH)/Direction: 11 mph N/W  
AM Weather Conditions: sunny  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Tim FFKovich

Andreas Popenucula

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegio

Sub-Contractor Personnel On-Site:

Hours Worked

cascade x5

Visitors On-Site:

|                                                                                                                |                |                                |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                  | De-Mobilized On: |
| Mini Drill<br>R.Y.<br>Truck R.Y.                                                                               | Calsade        |                                |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                   |                  |
|                                                                                                                |                |                                |                  |
| Health & Safety:                                                                                               |                |                                |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE              |                  |
| Mike Allegro                                                                                                   | 7:00 - 17:00   | D                              |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                        | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X) N/A ( ) *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( ) N/A ( ) *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X) N/A ( ) *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments       |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                |                  |
|                                                                                                                |                |                                |                  |

## Description of Daily Work Performed:

- Drilled 10" casing to 60' FT on NRW#12, Installed 6" well to 60' FT w/ 5' FT S/S Sump, 35' FT S/S screen, 20' FT PVC riser / (well one foot shorter than spec)

- Drilled NRW#4 w/ truck rig, drilled 10" w/ sampler to

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-398-5704  
FAX # 508-936-1058

|                                        |                             |       |          |  |
|----------------------------------------|-----------------------------|-------|----------|--|
| Cascade Drilling Project # 114-14-6511 |                             |       |          |  |
| DATE:                                  | 3/27/14                     |       |          |  |
| REP:                                   |                             |       |          |  |
| COMPANY:                               | EnviroTrac                  |       |          |  |
| CREW MEMBERS:                          | MARSH                       | RYSEN | GRABELLA |  |
| Travel:                                | 1                           | 2     | 1        |  |
| On Site:                               | 11                          | 10    | 11       |  |
| Misc. Off Site:                        | 1.5                         |       | .5       |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |       |          |  |
| DRILL #                                |                             |       |          |  |

### Breakout Hourly Activity TIME

|       |                                  |
|-------|----------------------------------|
| 7-8   | WARM & FUEL EQUIP / H & S        |
| 8-    | DRILL BxID 0-47                  |
|       | IDW /                            |
|       | TRouble OVERIDW, 10" CAUGHT CAPS |
|       | BARREL, AND CUT 8" C/B DRIVER    |
|       | PULL & CHANGE DRIVER             |
|       | PULL & CHANGE 10" CASING, SHOE   |
|       | WINT & SECURE EQUIP              |
| 10:40 | WAIT ON SUPPLIES                 |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               | 47       | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 11       |                                      |     |
| Footage Drilled        | 47       |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|             |                    |
|-------------|--------------------|
| DATE:       | 3/27/14            |
| CLIENT REP: | M. Ke Allegro      |
| SIGNATURE:  | <i>[Signature]</i> |
| OPERATOR:   | C. MARSH           |
| SIGNATURE:  | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Friday

DATE: 3/28/14



Temperature (F°): AM/PM 48° F / ° F  
Wind Speed (MPH)/Direction: 14 mph S/SW  
AM Weather Conditions: cloudy / cool  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Tim IFKOVICH

7.0

Andreas Papenacuidas

7.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

8.0

Sub-Contractor Personnel On-Site:

Hours Worked

cascadex6 guys

8.0

Visitors On-Site:

|                                                                                                                |                |                                |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                  | De-Mobilized On: |
| TRUCK RIG<br>SPRINKLER                                                                                         |                |                                |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                   |                  |
|                                                                                                                |                |                                |                  |
| Health & Safety:                                                                                               |                |                                |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE              |                  |
| MIKE<br>ALLEGRO                                                                                                | 7:00           |                                |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                        | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X) N/A ( ) *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( ) N/A ( ) *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X) N/A ( ) *No ( )   |                  |
| *If No, provide comments                                                                                       |                |                                |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                |                  |
| Heavy Rain IN forecast, secure ALL Equipment, Be aware of SLIP, lightning, wear proper PPE, slippery piping    |                |                                |                  |

## Description of Daily Work Performed:

~ NRW #13 Drilled to 60' FT to collect soil samples, installed 10" to 60' FT

~ NRW #4 Drilled from 47'-68' to collect samples, set well to 62' FT w/ 5' FT pump, 25' FT PVC lower screen, 15' FT risser, 10' FT 5/8" upper screen (change by URS) 7' FT risser

~ Installed well covers on NRW #1, 2 and Patched NRW # Refusal

## Sampling (Soil/Water/Air):

| Sample ID: | Sample Location: | Description: |
|------------|------------------|--------------|
|            |                  |              |

## Project Schedule Issues:

## Project Budget Issues:

## Items of Concern:

## Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

## Stormwater, Erosion and Sedimentation Control Issues:

## Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



**FAX # 508-393-5704**

|                                               |                             |              |  |  |
|-----------------------------------------------|-----------------------------|--------------|--|--|
| Cascade Drilling Project # <b>114-14-6511</b> |                             |              |  |  |
| DATE:                                         | <b>3-28-14</b>              |              |  |  |
| REP:                                          |                             |              |  |  |
| COMPANY:                                      | EnviroTrac                  |              |  |  |
| CREW MEMBERS:                                 | John Graglia                | D.duchnowski |  |  |
| Travel:                                       | 6                           | 6            |  |  |
| On Site:                                      | 8.50                        | 8.50         |  |  |
| Misc. Off Site:                               |                             |              |  |  |
| JOB LOCATION:                                 | National Grid, Brooklyn, NY |              |  |  |
| DRILL #                                       | M1386                       |              |  |  |

**Breakout Hourly Activity**  
**TIME**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | Travel To Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0700 - 1530 | Arrive AT SITE OPEN gate to site. PreINSPECTION ON RIG AND BOB CAT. FUEL UP RIG HEALTH AND SAFETY. FILL WATER TANK Begin move to NRW13. Set UP RIG AND 6" Tooling Set WATER TANK. Set UP Drums VAC. AND GENERATOR. Set BOB CAT back AT. DRILL FROM 0 TO 60' w/ SAMPLES STARTING AT 5' Finish SAMPLING. PULL 6" CASING. MOVE 6" RACK BACK INTO FENCED AREA. Move 10" Tooling and 9" core barrel. Drill 10" FROM 0 TO 60' w/ 9" core barrel. Finish Drilling |
| 1530 - 2000 | Travel From Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

down AND move RIG AND EQUIPMENT BACK INSIDE FENCED AREA CAPCOFF DRILL SITE COVER 10" CASING IN GROUND w/ 10" DRIVER AND 6" PLUG. SECURE RIG AND BOB CAT FOR THE NIGHT

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| NRW13 Recovery Well Drilling                         | 60       | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

**Other Duties Performed Not Included in the Billable Items**

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 8.50     |                                      |     |
| Footage Drilled        | 60'      |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                     |
|---------------|---------------------|
| DATE:         | <b>3-28-14</b>      |
| CLIENT REP:   | <b>Mike Allegro</b> |
| SIGNATURE:    | <i>[Signature]</i>  |
| BLY OPERATOR: | <b>John Graglia</b> |
| SIGNATURE:    | <i>[Signature]</i>  |

## DAILY FIELD REPORT

DAY: Monday DATE: 3/31/14

Temperature (F°): AM/PM 40° F / 50° F  
Wind Speed (MPH)/Direction: 5 mph S/E  
AM Weather Conditions: Rain/Snow  
PM Weather Conditions: clear/sunny

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Megan Dascoti  
Andreas Popendouls

8.5  
8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Anegro9.0

Sub-Contractor Personnel On-Site:

Hours Worked

cascade x69.0

Visitors On-Site:

|                                                                                                                |                |                                                   |                                        |
|----------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|----------------------------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                                     | De-Mobilized On:                       |
| AAACO<br>Dropped<br>New Roll-off                                                                               | →              | 3/31/14                                           |                                        |
| Deliveries to the Site today:                                                                                  |                | Measurement:                                      |                                        |
|                                                                                                                |                |                                                   |                                        |
| Health & Safety:                                                                                               |                |                                                   |                                        |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                                 |                                        |
| Mike Allegro                                                                                                   | 7:00           |                                                   |                                        |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                           | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes ( <input checked="" type="checkbox"/> ) | N/A ( ) *No ( )                        |
|                                                                                                                |                | Water: Yes ( )                                    | N/A ( ) *No ( )                        |
|                                                                                                                |                | Air: Yes ( <input checked="" type="checkbox"/> )  | N/A ( ) *No ( )                        |
| *If No, provide comments                                                                                       |                |                                                   |                                        |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                                   |                                        |
| Weather: Rain/snow in morning S/H/F, Be aware of slippery<br>Equipment, Icy ground surfaces                    |                |                                                   |                                        |

Description of Daily Work Performed :

- cored NRW# 9/11
- Installed NRW#13 TO SPEC
- Drilled NRW#5 TO 67 FT

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-398-5704  
FAX # 508-936-1058

|                                        |                             |       |         |  |
|----------------------------------------|-----------------------------|-------|---------|--|
| Cascade Drilling Project # 114-14-6511 |                             |       |         |  |
| DATE:                                  | 3-31-14                     |       |         |  |
| REP:                                   |                             |       |         |  |
| COMPANY:                               | EnviroTrac                  |       |         |  |
| CREW MEMBERS:                          | John Graglia                | Oiden | John P. |  |
| Travel:                                | 1                           | 1     | 1       |  |
| On Site:                               | 9.50                        | 6.50  | 6.50    |  |
| Misc. Off Site:                        |                             |       |         |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |       |         |  |
| DRILL #:                               |                             |       |         |  |

### Breakout Hourly Activity TIME

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630-0700 | Travel to Job site.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0700-1630 | Arrive AT SITE. Pre INSPECTION ON RIG AND BOB CAT HEALTH AND SAFETY. WARM UP RIG AND BOB CAT GET WELL MATERIALS TOGETHER FOR NRW 13. MOVE RIG TO DRILL SITE SETUP RIG. MOVE 10' BACK TO SITE TO DRUMS VAC GENERATOR AND WATER TANK. OIDEN AND JOHN ARRIVED AT SITE AT 1000AM. BEGIN SETTING WELL. SET 5'X6"SS SUMP W/ 35'X6"020 Vwire PVC SCREEN AND 20'X6" PVC RISER. BENTONITE CHIP FROM 60' TO 55' THEN #0 PACK FROM 55' TO 19' |
| 1630-1700 | Travel From Job site.                                                                                                                                                                                                                                                                                                                                                                                                              |

Then bentonite chip from 19' to 1' setup for grout. grout from 17 to 3' clean grout equipment move PAN to NRW 6 set socks and granular beneath then set PAN. move rig and equipment to fenced in area John pumped off 4 drums into frac tank. fill two water tanks at hydrant.

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   | 1        | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            | 35'      | Feet  |
| Recovery Well Riser, PVC                             | 20.      | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

#### Other Duties Performed Not Included in the Billable Items

Side walk work from 9 to 4. Oiden had 6 hrs on side walk John had 5.5 hrs on side walk. I had 7 hrs on side walk.

| ITEM                   | Quantity           | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|--------------------|--------------------------------------|-----|
| Hours On Site          | 9.50               |                                      |     |
| Footage Drilled        |                    |                                      |     |
| Well Installed (FT.)   | 60'                |                                      |     |
| Boring Abandoned (FT.) |                    |                                      |     |
| DATE:                  | 3-31-14            |                                      |     |
| CLIENT REP:            | Mike Aniceto       |                                      |     |
| SIGNATURE:             | <i>[Signature]</i> |                                      |     |
| BLY OPERATOR:          | John Graglia       |                                      |     |
| SIGNATURE:             | <i>[Signature]</i> |                                      |     |



508-398-5704  
FAX # 508-936-1058

|                                        |                             |      |       |  |
|----------------------------------------|-----------------------------|------|-------|--|
| Cascade Drilling Project # 114-14-6511 |                             |      |       |  |
| DATE:                                  | 3/31/14                     |      |       |  |
| REP:                                   |                             |      |       |  |
| COMPANY:                               | EnviroTrac                  |      |       |  |
| CREW MEMBERS:                          | MARSH                       | BOND | QUEEN |  |
| Travel:                                | 2.5                         | 1    | 2     |  |
| On Site:                               | 9.5                         | 9.5  | 9.5   |  |
| Misc. Off Site:                        | .5                          |      |       |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |      |       |  |
| DRILL #                                |                             |      |       |  |

### Breakout Hourly Activity

#### TIME

|          |                                  |
|----------|----------------------------------|
| 7-8      | Warm up/ASP EQUIP/ H&S MTS       |
| 8-930    | FINISH SETTING NRW-04/10W        |
| 930-1100 | MOVE TO & SET UP ON NRW-05       |
| 11-1600  | DRILL Bx9 0-67'/10W SOIL & WATER |
| 16-1630  | SECURE EQUIP/ UNLOAD COMPRESSOR  |
|          |                                  |
|          |                                  |
|          |                                  |
|          |                                  |
|          |                                  |

| DRILLING SCHEDULE OF ITEMS |                                                      | QUANTITY | UNITS |
|----------------------------|------------------------------------------------------|----------|-------|
| NRW-05                     | Recovery Well Drilling                               | 67       | Feet  |
|                            | Recovery Well sump                                   |          | Each  |
|                            | Recovery Well Screen, Stainless Steel                |          | Feet  |
|                            | Recovery Well Screen, PVC                            |          | Feet  |
|                            | Recovery Well Riser, PVC                             |          | Feet  |
|                            | Surface completion                                   |          | Each  |
|                            | Well Development / Well                              |          | Each  |
|                            | NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
|                            | Standby Time                                         |          | Hours |
|                            |                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 9.5      |                                      |     |
| Footage Drilled        | 67       |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                |
|---------------|----------------|
| DATE:         | 3/31/14        |
| CLIENT REP:   | M. Ke. Allegio |
| SIGNATURE:    |                |
| BLY OPERATOR: | C. MARSH       |
| SIGNATURE:    |                |

## DAILY FIELD REPORT

DAY: Tuesday DATE: 4/1/14



Temperature (F°): AM/PM 40° F / ° F  
 Wind Speed (MPH)/Direction: 5 mph W  
 AM Weather Conditions: clear/cool  
 PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Meghan Dastoli  
 Andrews Papadopoulos  
 Kevin McGovern

8 hrs.

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

M. Ke Alliegro  
 ZACH  
 Mike Rose

8 hrs.

Sub-Contractor Personnel On-Site:

Hours Worked

cascadia ex 7 boys

8 hrs.

Visitors On-Site:

|                    |             |               |                  |
|--------------------|-------------|---------------|------------------|
| Equipment On-Site: | Vendor Name | Mobilized On: | De-Mobilized On: |
| Drilling Equipment |             |               |                  |

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

|                  |                |                                  |
|------------------|----------------|----------------------------------|
| Health & Safety: |                |                                  |
| Name             | Time (From-To) | Task/Level of PPE                |
| Mike Alliego     | 0730 -         | Hand clearing / Drilling Level D |

|                                                                                                                |                          |                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                  | No (x)          |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes ( )            | N/A ( ) *No ( ) |
|                                                                                                                | Water: Yes ( )           | N/A ( ) *No ( ) |
|                                                                                                                | Air: Yes ( )             | N/A ( ) *No ( ) |
|                                                                                                                | *If No, provide comments |                 |

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions) |
| Very Hot in sun, Heat Stress,<br>proper digging techniques                                      |

## Description of Daily Work Performed:

- Hand cleared NRW-9 & NRW-11 to 5 feet
- (NRW-6) Drilled to ~~67~~ feet w/ 8" sampler, set 10" casing to ~~67~~ feet.
- (NRW-5) set well to 66'
- Developed NRW-2 (235 gals) & started NRW-1 development
- (NRW-1) pumped 250 gals

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-395-5704  
FAX # 508-936-1058

|                            |                             |             |
|----------------------------|-----------------------------|-------------|
| Cascade Drilling Project # |                             | 114-14-6511 |
| DATE:                      | 4-1-14                      |             |
| REP:                       |                             |             |
| COMPANY:                   | EnviroTrac                  |             |
| CREW MEMBERS:              | John Graglia                | Oiden       |
| Travel:                    | 1                           | 1           |
| On Site:                   | 10.50                       | 10.50       |
| Misc. Off Site:            |                             |             |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |
| DRILL #                    |                             |             |

### Breakout Hourly Activity TIME

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | Travel to Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 0700 - 1730 | Arrive at site. Pre-Inspection on Rig and Bob Cat.<br>Warm up Rig and Bob Cat. Health and Safety. Begin<br>Move to NRW-6 Set up Rig 6" casing rods drums<br>VAC generator and water tank drill from 0 to 65'<br>w/ samples starting at 5' finish sampling pull 6"<br>casing move 6" rack back inside fenced area move<br>10" casing rack and 9" core barrels to drill site, drill<br>w/ 10" casing and 9" core barrel from 0 to 67' will |
| 1730 - 1800 | Travel from Job Site.                                                                                                                                                                                                                                                                                                                                                                                                                    |

PULL core barrel  
in morning move  
Rig and generator  
back inside fence  
area cover 10"  
casing w/ 10"  
adapter and 6"  
plug. Cone off  
site.

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| NRW-6 Recovery Well Drilling                         | 67'      | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

Other Duties Performed Not Included in the Billable Items ON SIDE WALK FROM 0800 TO 1730

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.50    |                                      |     |
| Footage Drilled        | 67'      |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-1-14             |
| CLIENT REP:   | Mike Allegro       |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John A. Graglia    |
| SIGNATURE:    | <i>[Signature]</i> |



508-393-5704  
FAX # 508-936-1058

|                                        |                             |       |      |  |
|----------------------------------------|-----------------------------|-------|------|--|
| Cascade Drilling Project # 114-14-6511 |                             |       |      |  |
| DATE:                                  | 4/1/14                      |       |      |  |
| REP:                                   |                             |       |      |  |
| COMPANY:                               | EnviroTrac                  |       |      |  |
| CREW MEMBERS:                          | MARSH                       | QUEEN | BOND |  |
| Travel:                                | 1                           | 2     | 1    |  |
| On Site:                               | 12.5                        | 10    | 10.5 |  |
| Misc. Off Site:                        |                             |       |      |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |       |      |  |
| DRILL #                                | SR103                       |       |      |  |

### Breakout Hourly Activity

| TIME |                              |
|------|------------------------------|
| 7-8  | WARM EQUIP / HRS MTG         |
| 8-   | OVERRIDE 10" CASING TO 67'   |
|      | GATHER WELL MATERIAL         |
|      | SET WELL NRW-05 D 66'        |
|      | IDW                          |
| 1700 | BREAK RIG DOWN MOVE OFF HOLE |
| 1730 | SECURE EQUIP                 |
|      |                              |
|      |                              |
|      |                              |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| 10" OVERRIDE Recovery Well Drilling                  | 57       | Feet  |
| Recovery Well sump                                   | 1/5'     | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            | 25       | Feet  |
| Recovery Well Riser, PVC                             | 40       | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10       |                                      |     |
| Footage Drilled        | 57/10"   |                                      |     |
| Well Installed (FT.)   | 66       |                                      |     |
| Boring Abandoned (FT.) | 1'       |                                      |     |
| DATE:                  | 4/1/14   |                                      |     |
| CLIENT REP:            |          |                                      |     |
| SIGNATURE:             |          |                                      |     |
| BLY OPERATOR:          | C. MARSH |                                      |     |
| SIGNATURE:             |          |                                      |     |



FAX # 508-393-5704

|                 |                 |                             |                |
|-----------------|-----------------|-----------------------------|----------------|
| DATE:           |                 | 4-1-2014                    |                |
| REP:            |                 |                             |                |
| COMPANY:        |                 | EnviroTrac                  |                |
| CREW MEMBERS:   | <del>CRUZ</del> | D.duchnowski                | John POSTERICK |
| Travel:         |                 | 1.00                        | 1.00           |
| On Site:        |                 | 10.00                       | 10.00          |
| Misc. Off Site: |                 |                             |                |
| JOB LOCATION:   |                 | National Grid, Brooklyn, NY |                |
| DRILL #         |                 | M1386                       |                |

**Breakout Hourly Activity**  
**TIME**

|        |                                         |
|--------|-----------------------------------------|
| 0700 - | @ SITE SET UP PULSTAR ON SIDEWALK       |
|        | DEVELOP WELL #2                         |
|        | PRESSURE WASH PIPE OVER HOLE            |
|        | SET UP ON <del>CRUZ</del> WELL #1 START |
|        | DEVELOPING. TEAR DOWN PULSTAR           |
|        | MOVE INTO STAGING AREA                  |
| 1700   | LEAVE SITE                              |
|        |                                         |
|        |                                         |
|        |                                         |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              | 1        | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.00    |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-1-2014           |
| CLIENT REP:   | M. KR. A. H. G. J. |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | DEANIS DUCHNOWSKI  |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Wednesday DATE: 4/2/14



Temperature (F°): AM/PM 34° F / ° F  
Wind Speed (MPH)/Direction: 2 mph S  
AM Weather Conditions: cloudy  
PM Weather Conditions:

Client: National Grid  
Project Name: Former Williamsburg Works MGP site  
Purchase Order Number:  
EnviroTrac Project Number: 01.NG0003.00  
Construction Oversight / Engineer: URS  
Location: 50 Kent Avenue, Brooklyn, NY

## URS Personnel On-Site:

## Hours Worked

Megan  
Andrews

8.0  
0.0

## Nation Grid Personnel On-Site:

## Hours Worked

## EnviroTrac Personnel On-Site:

## Hours Worked

Mike Allegro

9.0

## Sub-Contractor Personnel On-Site:

## Hours Worked

Cascade x 7 buy's

9.0

## Visitors On-Site:

|                                                                                                                |                |                                                                                                                                                                                     |                                        |
|----------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                                                                                                                                                                       | De-Mobilized On:                       |
|                                                                                                                |                |                                                                                                                                                                                     |                                        |
| Deliveries to the Site today:                                                                                  |                | Measurement:                                                                                                                                                                        |                                        |
|                                                                                                                |                |                                                                                                                                                                                     |                                        |
| Health & Safety:                                                                                               |                |                                                                                                                                                                                     |                                        |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                                                                                                                                                                   |                                        |
| Mike Allgood                                                                                                   | 7:00 - 16:30   | D                                                                                                                                                                                   |                                        |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                                                                                                                                                             | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes <input checked="" type="checkbox"/> N/A ( )      *No ( )<br>Water: Yes ( )      N/A ( )      *No ( )<br>Air: Yes <input checked="" type="checkbox"/> N/A ( )      *No ( ) |                                        |
| *If NO, provide comments                                                                                       |                |                                                                                                                                                                                     |                                        |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                                                                                                                                                                     |                                        |
|                                                                                                                |                |                                                                                                                                                                                     |                                        |

## Description of Daily Work Performed:

- Developed NRW#1 / removed 5 well volumes vrs approved
- Installed NRW#6 to 67' FT
- Drilled NRW#9 to 57' FT
- Installed manhole cover on NRW#13

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-398-5704

FAX # 508.936.1058

|                            |                             |             |  |
|----------------------------|-----------------------------|-------------|--|
| Cascade Drilling Project # |                             | 114-14-6511 |  |
| DATE:                      | 4-2-14                      |             |  |
| REP:                       |                             |             |  |
| COMPANY:                   | EnviroTrac                  |             |  |
| CREW MEMBERS:              | John Graglia                | Oiden       |  |
| Travel:                    | 1                           | 1           |  |
| On Site:                   | 9.50                        | 9.50        |  |
| Misc. Off Site:            |                             |             |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |  |
| DRILL #                    |                             |             |  |

### Breakout Hourly Activity

| TIME        |                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | TRAVEL TO Job Site.                                                                                                                                                                                           |
| 0700 - 0830 | ARRIVE AT SITE OPEN GATE TO SITE PRE INSPECTION ON RIG AND BOB CAT FUEL UP RIG PUMP OFF DRUMS INTO FRACTANK. DUMP SOIL IN DRUMS INTO ROLLOFF. GET WELL MATERIALS FOR NRW6 HEALTH AND SAFETY MEETING.          |
| 0830 - 1630 | MOVE RIG TO NRW-6 SET UP OVERHOLE MOVE RACK OF RODS AND 10" RACK TO SITE SET UP GENERATOR AND VAC MOVE WELL MATERIALS TO DRILL PULL 9' CORE BARREL FROM 67' AND EMPTY INTO BOB CAT BUCKET. EMPTY BUCKET. MOVE |
| 1630 - 1700 | TRAVEL FROM Job Site.                                                                                                                                                                                         |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| NRW 6 Recovery Well sump                             | 1        | Each  |
| NRW 6 Recovery Well Screen, Stainless Steel          | 25'      | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| NRW-6 Recovery Well Riser, PVC                       | 37'      | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

Other Duties Performed Not Included in the Billable Items 0830 - 1630 side WALK work.

ROD RACK INSIDE FENCED AREA. BEGIN SETTING, NRW-6 SET 5' X 6" SS SUMP W/ 10' X 6" SS SCREEN THE 25' X 6" PVC RISER THEN 15' 6" SS 20 SLOT SCREEN THEN 10' 6" PVC RISER. BENTONITE CHIPFI 67 TO 62' THEN 7' PACK FROM 62' TO 5' THEN BENTONITE CHIP FROM 51' TO 27' THEN 70' PACK FROM 27' TO 11' THEN BENTONITE CHIPFI 11' TO 9' SET UP FOR GROUTING. GROUT FROM 4' TO 3' BELOW GRADE CLEAN GROUT EQUIPMENT TAKE RIG DOWN MOVE RIG AND EQUIPMENT INSIDE FENCED AREA.

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 9.50     |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   | 67'      |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-2-14             |
| CLIENT REP:   | M. KE. ALL. PWD    |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | John Graglia       |
| SIGNATURE:    | <i>[Signature]</i> |



508-393-5704  
FAX # 508.936.1058

|                                        |                             |      |       |  |
|----------------------------------------|-----------------------------|------|-------|--|
| Cascade Drilling Project # 114-14-6511 |                             |      |       |  |
| DATE:                                  | 4/2/14                      |      |       |  |
| REP:                                   |                             |      |       |  |
| COMPANY:                               | EnviroTrac                  |      |       |  |
| CREW MEMBERS:                          | MARSH                       | BOND | QUEEN |  |
| Travel:                                | 1                           | 1    | 2     |  |
| On Site:                               | 10                          | 10   | 10    |  |
| Misc. Off Site:                        |                             |      |       |  |
| JOB LOCATION:                          | National Grid, Brooklyn, NY |      |       |  |
| DRILL #                                | SR103                       |      |       |  |

**Breakout Hourly Activity**

| TIME        |                                                  |
|-------------|--------------------------------------------------|
| 7:00-8:30   | HVS / CHANGE LOGS ON RIG 10W                     |
| 8:30-11:30  | PREP LOCATION FOR DRILLING NRW-09 (ON STREET)    |
| 11:30-12:00 | SET UP AN NRW-09                                 |
| 12:00-1:00  | SET 12" CASING DRILL 8X9 D-58" (STREET DRILLING) |
| 1:00-1:17   | BREAK DOWN EQUIP MOVE OFF STREET                 |
|             |                                                  |
|             |                                                  |
|             |                                                  |
|             |                                                  |
|             |                                                  |
|             |                                                  |

| DRILLING SCHEDULE OF ITEMS                                | QUANTITY | UNITS |
|-----------------------------------------------------------|----------|-------|
| Recovery Well Drilling                                    | 58       | Feet  |
| Recovery Well sump                                        |          | Each  |
| Recovery Well Screen, Stainless Steel                     |          | Feet  |
| Recovery Well Screen, PVC                                 |          | Feet  |
| Recovery Well Riser, PVC                                  |          | Feet  |
| Surface completion                                        |          | Each  |
| Well Development / Well                                   |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned      |          | Feet  |
| Standby Time                                              | 0        | Hours |
| Other Duties Performed Not Included in the Billable Items |          |       |
|                                                           |          |       |
|                                                           |          |       |
|                                                           |          |       |

| ITEM                   | Quantity        | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|-----------------|--------------------------------------|-----|
| Hours On Site          | 10              |                                      |     |
| Footage Drilled        | 58              |                                      |     |
| Well Installed (FT.)   |                 |                                      |     |
| Boring Abandoned (FT.) |                 |                                      |     |
|                        |                 |                                      |     |
|                        |                 |                                      |     |
| DATE:                  | 4/2/14          |                                      |     |
| CLIENT REP:            | M. KC All. C/ro |                                      |     |
| SIGNATURE:             |                 |                                      |     |
| BLY OPERATOR:          | C. MARSH        |                                      |     |
| SIGNATURE:             |                 |                                      |     |



CASCADE DRILLING, L.P.  
LEADERS IN SAFETY

FAX # 508-393-5704

|                            |                             |              |                |
|----------------------------|-----------------------------|--------------|----------------|
| Cascade Drilling Project # |                             | 114-14-6511  |                |
| DATE:                      | 4-2-2014                    |              |                |
| REP:                       |                             |              |                |
| COMPANY:                   | EnviroTrac                  |              |                |
| CREW MEMBERS:              | <del>COOPER</del>           | D.duchnowski | JOHN POSTERICK |
| Travel:                    | 1.00                        |              | 1.00           |
| On Site:                   | 10.00                       |              | 10.00          |
| Misc. Off Site:            |                             |              |                |
| JOB LOCATION:              | National Grid, Brooklyn, NY |              |                |
| DRILL #                    | M1386                       |              |                |

### Breakout Hourly Activity

#### TIME

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| 0700 -      | @ SITE <del>WORK</del> PUMP OUT BARRELS OF                        |
| 0800        | WATER INTO FRAC TANK                                              |
| 0800 - 1230 | SET BACK UP ON NRW-#02 FINISH DEVELOPMENT                         |
| 1230 - 1700 | SET UP ON NRW#3 INSIDE FENCE START DEVELOPMENT FINISH DEVELOPMENT |
|             | SET ROAD BOX ON NRW#13 ON SIDEWALK                                |
|             | 5.50 HOURS ON SIDEWALK                                            |

| DRILLING SCHEDULE OF ITEMS                                | QUANTITY | UNITS |
|-----------------------------------------------------------|----------|-------|
| Recovery Well Drilling                                    |          | Feet  |
| Recovery Well sump                                        |          | Each  |
| Recovery Well Screen, Stainless Steel                     |          | Feet  |
| Recovery Well Screen, PVC                                 |          | Feet  |
| Recovery Well Riser, PVC                                  |          | Feet  |
| Surface completion                                        | 1        | Each  |
| NRW#1, NRW#3 Well Development / Well                      | 2        | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned      |          | Feet  |
| Standby Time                                              |          | Hours |
| 0                                                         |          | 0     |
| Other Duties Performed Not Included in the Billable Items |          |       |
|                                                           |          |       |
|                                                           |          |       |
|                                                           |          |       |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.00    |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-2-2014           |
| CLIENT REP:   | Mike Allegro       |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | DENNIS DUCHNOWSKI  |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Thursday DATE: 4/3/14



Temperature (F°): AM/PM 45° F / ° F  
Wind Speed (MPH)/Direction: 8 mph N/W  
AM Weather Conditions: Sunny  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas

8.0

Megan

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

9.0

Sub-Contractor Personnel On-Site:

Hours Worked

cascade x 6

9.0

Visitors On-Site:

|                    |             |               |                  |
|--------------------|-------------|---------------|------------------|
| Equipment On-Site: | Vendor Name | Mobilized On: | De-Mobilized On: |
|                    |             |               |                  |

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

| Health & Safety: |                |                   |
|------------------|----------------|-------------------|
| Name             | Time (From-To) | Task/Level of PPE |
| Mike Allegro     | 7:00/4:00      | 0                 |

|                                                                                                                |                                                               |                                        |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                                                       | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes <input checked="" type="checkbox"/> N/A ( ) *No ( ) | Water: Yes ( ) N/A ( ) *No ( )         |
|                                                                                                                | Air: Yes <input checked="" type="checkbox"/> N/A ( ) *No ( )  |                                        |
|                                                                                                                | *If No, provide comments                                      |                                        |

|                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)<br>with MULTIPLE DRILL RIGS, HEAVY EQUIPMENT MOVING IN/OUT OF SITE<br>- USING SPOTTER WHEN MOVING EQUIPMENT ON STREET<br>working on sidewalk |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Description of Daily Work Performed:

- Developed NRW # 4, removed 500 GAL'S total VRS APPROVED
- Installed well AT NRW # 9 TO 58' FT w/35' FT screen
- Drilled TO 63' FT AT NRW # 7 w/sampler / set 10" casing TO 63'
- NRW # 5 Developed, removed 650 GAL'S total, VRS APPROVED 91 TUB'S
- Drilled NRW # 11 TO 37' FT

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-395-5704

FAX # 508.936.1058

Cascade Drilling Project # 114-14-5511

|                 |                             |      |  |  |  |
|-----------------|-----------------------------|------|--|--|--|
| DATE:           | 4/3/14                      |      |  |  |  |
| REP:            |                             |      |  |  |  |
| COMPANY:        | EnviroTrac                  |      |  |  |  |
| CREW MEMBERS:   | MARSH                       | BOND |  |  |  |
| Travel:         | 1                           | 1    |  |  |  |
| On Site:        | 11                          | 11   |  |  |  |
| Misc. Off Site: | .5                          |      |  |  |  |
| JOB LOCATION:   | National Grid, Brooklyn, NY |      |  |  |  |
| DRILL #         |                             |      |  |  |  |

### Breakout Hourly Activity TIME

|           |                                             |
|-----------|---------------------------------------------|
| 7-8       | SITE HXS / WARM EQUIP / MOVE TO STREET      |
| B 1130    | SET UP EQUIP ON NRW-09 SET WELL 258'        |
| 1130-     | MOVE TO NRW-11 PREP DRILL AREA / SET UP     |
| 1730      | SET UP ON NRW-11 SET 12" / DRILL 0-37 8"x9" |
| 1730-1800 | BREAK DOWN EQUIP & MOVE INSIDE YARD         |
|           | SECURE DRILL LOCATION                       |
|           |                                             |
|           |                                             |
|           |                                             |
|           |                                             |
|           |                                             |

| DRILLING SCHEDULE OF ITEMS |                                                      | QUANTITY | UNITS |
|----------------------------|------------------------------------------------------|----------|-------|
| NRW-11                     |                                                      |          |       |
|                            | Recovery Well Drilling                               | 37       | Feet  |
|                            | Recovery Well sump                                   | 1/5      | Each  |
|                            | Recovery Well Screen, Stainless Steel                | 35       | Feet  |
|                            | Recovery Well Screen, PVC                            |          | Feet  |
|                            | Recovery Well Riser, PVC                             | 20       | Feet  |
|                            | Surface completion                                   |          | Each  |
|                            | Well Development / Well                              |          | Each  |
|                            | NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
|                            | Standby Time                                         | 0        | Hours |

|                                                           |  |
|-----------------------------------------------------------|--|
| Other Duties Performed Not Included in the Billable Items |  |
| B-1730 IN STREET (SIDEWALK)                               |  |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 11       |                                      |     |
| Footage Drilled        | 37       |                                      |     |
| Well Installed (FT.)   | 58       |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4/3/14             |
| CLIENT REP:   | MIKE ALLICARD      |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | MARSH              |
| SIGNATURE:    | <i>[Signature]</i> |



508-393-5704

FAX # 508.936.1058

|                            |                             |             |  |
|----------------------------|-----------------------------|-------------|--|
| Cascade Drilling Project # |                             | 114-14-6511 |  |
| DATE:                      | 4-3-14                      |             |  |
| REP:                       |                             |             |  |
| COMPANY:                   | EnviroTrac                  |             |  |
| CREW MEMBERS:              | John Graglia                | Oiden       |  |
| Travel:                    | 1                           | 1           |  |
| On Site:                   | 10.50                       | 10.50       |  |
| Misc. Off Site:            |                             |             |  |
| JOB LOCATION:              | National Grid, Brooklyn, NY |             |  |
| DRILL #                    |                             |             |  |

### Breakout Hourly Activity TIME

|             |                                                                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0615 - 0700 | TRAVEL TO JOB SITE. STOP TO FILL MH375 W/ DIESEL AND FILL TWO CANS OF GAS.                                                                                                                                              |
| 0700 - 0800 | ARRIVE AT SITE. OPEN GATE TO SITE. PRE INSPECTION ON RIG. WARM UP RIG AND BOB CAT. HEALTH AND SAFETY MEETING. WAIT FOR CRAIG TO SET UP HIS RIG AT NRW 9. SET UP PAN AT NRW 7                                            |
| 0800 - 1730 | START MOVING RIG TO SITE SET UP RIG 6" TOOLING DRUMS VAC. GENERATOR WATER TANK AND BOB CAT bucket. DRILL NRW 7 FROM 0 TO 63' W/ SAMPLES STARTING AT 5' FINISH DRILLING FOR SAMPLES. PULL 6" CASING MOVE BACK OF 6" BACK |
| 1730 - 1800 | TRAVEL FROM JOB SITE.                                                                                                                                                                                                   |

inside fence AREA. MOVE 9" CORE BARREL AND 10" CASING TO SH. DRILL 10" FROM C TO 63' w/ 9" core barrel. MOVE R. AND EQUIPMENT BACK INSIDE FENCE AREA.

| DRILLING SCHEDULE OF ITEMS                                                       | QUANTITY | UNITS |
|----------------------------------------------------------------------------------|----------|-------|
| NRW-7 Recovery Well Drilling                                                     | 63'      | Feet  |
| Recovery Well sump                                                               |          | Each  |
| Recovery Well Screen, Stainless Steel                                            |          | Feet  |
| Recovery Well Screen, PVC                                                        |          | Feet  |
| Recovery Well Riser, PVC                                                         |          | Feet  |
| Surface completion                                                               |          | Each  |
| Well Development / Well                                                          |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned                             |          | Feet  |
| Standby Time                                                                     | 0        | Hours |
| Other Duties Performed Not Included in the Billable Items 0800-1730 ON SIDEWALK. |          |       |

| ITEM                   | Quantity           | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|--------------------|--------------------------------------|-----|
| Hours On Site          | 10.50              |                                      |     |
| Footage Drilled        | 63'                |                                      |     |
| Well Installed (FT.)   |                    |                                      |     |
| Boring Abandoned (FT.) |                    |                                      |     |
| DATE:                  | 4-3-14             |                                      |     |
| CLIENT REP:            | M. K. Allegio      |                                      |     |
| SIGNATURE:             | <i>[Signature]</i> |                                      |     |
| BLY OPERATOR:          | John A Graglia     |                                      |     |
| SIGNATURE:             | <i>[Signature]</i> |                                      |     |



FAX # 508-393-5704

|                 |                           |                             |                |
|-----------------|---------------------------|-----------------------------|----------------|
| DATE:           |                           | 4-3-2014                    |                |
| REP:            |                           |                             |                |
| COMPANY:        |                           | EnviroTrac                  |                |
| CREW MEMBERS:   | <del>JOHN POSTERICK</del> | D.duchnowski                | JOHN POSTERICK |
| Travel:         |                           | 1.00                        | 1.00           |
| On Site:        |                           | 10.50                       | 10.50          |
| Misc. Off Site: |                           |                             |                |
| JOB LOCATION:   |                           | National Grid, Brooklyn, NY |                |
| DRILL #         |                           | M1386                       |                |

### Breakout Hourly Activity

| TIME   |                                |
|--------|--------------------------------|
| 0700 - | @ SITE EMPTY TOTES AND BARRELS |
| 0800   | OF WATER                       |
| 0800 - | DEVELOPE NRW-4 AND NRW-5       |
|        | SET AND CEMENT REARBOXES ON    |
|        | NRW#3, NRW#4, NRW#5, NRW#6     |
| 1730   | HELP MOVE RIGS OFF SIDEWALK    |
|        | 3 HOURS SIDEWALK WORK          |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   | 4        | Each  |
| Well Development / Well                              | 2        | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.50    |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-3-2014           |
| CLIENT REP:   | M. Ke. Allegro     |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | DENNIS DUCHNOWSKI  |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Friday

DATE: 4/4/14



Temperature (F°): AM/PM 41°/1 °F  
Wind Speed (MPH)/Direction: 8 mph E  
AM Weather Conditions: Rain/Cloudy  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Meghan

8.0

Andreas

0.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Rose

8.0

Mike Allegro

8.0

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade &amp; 7

8.0

Visitors On-Site:

|                                                                                                                |                |                                          |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                            | De-Mobilized On: |
|                                                                                                                |                |                                          |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                             |                  |
|                                                                                                                |                |                                          |                  |
| Health & Safety:                                                                                               |                |                                          |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                        |                  |
| Mike Alliegro                                                                                                  | 7-3            | D                                        |                  |
| Are there any changes to the Health & Safety Plan?<br>(if yes, list the deviation under the items for concern) |                | Yes ( )                                  | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X)      N/A ( )      *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( )      N/A ( )      *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X)      N/A ( )      *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments                 |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                          |                  |
|                                                                                                                |                |                                          |                  |

Description of Daily Work Performed :

- Installed well at NRW#7 to 63' ft w/ 5' ft S/S sump
- 20' ft S/S screen, 20' ft riser, 5' ft S/S screen, 13' ft riser
- Started developing NRW#6 pumped 170 GALS well has slow recharge
- Truck Rig broke down on NRW#11 no drilling

Sampling (Soil/Water/Air):

| Sample ID: | Sample Location: | Description: |
|------------|------------------|--------------|
|            |                  |              |

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no  
 Site Sketch   yes    no  
 Field Notes   yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



508-393-5704

FAX # 508-936-1058

Cascade Drilling Project # 114-14-5511

|                 |                             |       |  |  |  |
|-----------------|-----------------------------|-------|--|--|--|
| DATE:           | 4-4-14                      |       |  |  |  |
| REP:            |                             |       |  |  |  |
| COMPANY:        | EnviroTrac                  |       |  |  |  |
| CREW MEMBERS:   | John Graglia                | Oiden |  |  |  |
| Travel:         | 6.50                        | 1     |  |  |  |
| On Site:        | 7.50                        | 7.50  |  |  |  |
| Misc. Off Site: |                             |       |  |  |  |
| JOB LOCATION:   | National Grid, Brooklyn, NY |       |  |  |  |
| DRILL #:        |                             |       |  |  |  |

### Breakout Hourly Activity

#### TIME

|             |                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0630 - 0700 | Travel To Job Site                                                                                                                                                                                                                                                     |
| 0700 - 0800 | Arrive AT SITE OPEN GATE TO SITE Pre Inspection on RIG AND Bob CAT Health and safety meeting. Get well MATERIALS together.                                                                                                                                             |
| 0800 - 1430 | MOVE RIG TO NRW 7 Set UP RIG DRUMS, VAC, generator 10" RACK move well MATERIALS TO SITE. Then Begin SETTING well Set 5'X6" SS SUMP 20'X6" OROSLT Screen Then 20'X6" PVC Riser Then 5'X6" SS OROSLT screen Then 13'X6" PVC Riser. Bentonite chip From 63 to 58' Then #0 |
| 1430 - 2030 | Travel From Job Site To shop.                                                                                                                                                                                                                                          |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| NRW 7 Recovery Well sump                             | 1        | Each  |
| NRW 7 Recovery Well Screen, Stainless Steel          | 25       | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| NRW 7 Recovery Well Riser, PVC                       | 33       | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         | 0        | Hours |

Other Duties Performed Not Included in the Billable Items 0800 TO 1400 ON SIDE WALK.

PACK FROM 58 37' Then Benton. Chip From 37' 18' Then #0 PVC From 18' to 12' Bentonite chip From 12' to 10' Setup for grou group From 10' 2' below grade. Clean grou group, MOVE RIG AND equipment Back inside fence Area.

| ITEM                   | Quantity        | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|-----------------|--------------------------------------|-----|
| Hours On Site          | 7.5             |                                      |     |
| Footage Drilled        |                 |                                      |     |
| Well Installed (FT.)   | 63'             |                                      |     |
| Boring Abandoned (FT.) |                 |                                      |     |
| DATE:                  | 4-3-14          |                                      |     |
| CLIENT REP:            | Mike Allery     |                                      |     |
| SIGNATURE:             |                 |                                      |     |
| BLY OPERATOR:          | John A. Graglia |                                      |     |
| SIGNATURE:             |                 |                                      |     |



**FAX # 508-393-5704**

|                 |                               |                             |               |
|-----------------|-------------------------------|-----------------------------|---------------|
| DATE:           |                               | 4-4-2014                    |               |
| REP:            |                               |                             |               |
| COMPANY:        |                               | EnviroTrac                  |               |
| CREW MEMBERS:   | <del>John D. Duchnowski</del> | D.duchnowski                | JOHN POSTERIG |
| Travel:         |                               | 6.00                        |               |
| On Site:        |                               | 6.50                        |               |
| Misc. Off Site: |                               |                             |               |
| JOB LOCATION:   |                               | National Grid, Brooklyn, NY |               |
| DRILL #         |                               | M1386                       |               |

**Breakout Hourly Activity**  
**TIME**

|           |                                            |
|-----------|--------------------------------------------|
| 0700-0800 | CLEAN OUT BARRELS + TOTES OF WATER AND MUD |
| 0800-     | SET UP PU/STAR ON <del>NRW</del> -#6       |
|           | START DEVELOPMENT                          |
|           | DID NOT FINISH DEVELOPMENT                 |
|           | SLOW WATER RECOVERY                        |
|           | TEAR DOWN SECURE HOLE                      |
| 1430      | MOVE PU/STAR TO STAGING                    |
|           | 6.50 HRS ON SIDEWALK                       |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |
|                                                           |

| ITEM                   | Quantity      | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|---------------|--------------------------------------|-----|
| Hours On Site          | 7.50          |                                      |     |
| Footage Drilled        |               |                                      |     |
| Well Installed (FT.)   |               |                                      |     |
| Boring Abandoned (FT.) |               |                                      |     |
| DATE:                  |               |                                      |     |
| CLIENT REP:            | Mike Aliviero |                                      |     |
| SIGNATURE:             |               |                                      |     |
| BLY OPERATOR:          | D. DUCHNOWSKI |                                      |     |
| SIGNATURE:             |               |                                      |     |



CASCADE DRILLING, L.P.  
LEADERS IN SAFETY

508-393-5704

FAX # 508-936-1058

Cascade Drilling Project # 114-14-8511

|                 |                             |      |       |  |
|-----------------|-----------------------------|------|-------|--|
| DATE:           | 4/4/14                      |      |       |  |
| REP:            |                             |      |       |  |
| COMPANY:        | EnviroTrac                  |      |       |  |
| CREW MEMBERS:   | MARSH                       | BOON | RUBEN |  |
| Travel:         | 2.5                         |      | 2     |  |
| On Site:        | 8                           | 8    | 8     |  |
| Misc. Off Site: | 1.5                         |      |       |  |
| JOB LOCATION:   | National Grid, Brooklyn, NY |      |       |  |
| DRILL #         |                             |      |       |  |

### Breakout Hourly Activity TIME

|           |                                     |
|-----------|-------------------------------------|
| 7-8       | ON SITE INS/WARM EQUIP              |
| 8-        | SET UP ON NEW-11                    |
|           | TROUBLESHOOT RIG/WOULDN'T ENGAGE    |
|           | INTO PTO TO DRIVE HYDRAULIC SYSTEM. |
| 1200      | BREAK DOWN OFF HOLE                 |
| 1200-1500 | PREP RIG FOR DEMOBE/CLEAN SITE      |
|           |                                     |
|           |                                     |
|           |                                     |
|           |                                     |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| Well Development / Well                              |          | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
| WORKING IN STREET 8-12                                    |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 8        |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |
| DATE:                  | 4/4/14   |                                      |     |
| CLIENT REP:            |          |                                      |     |
| SIGNATURE:             |          |                                      |     |
| BLY OPERATOR:          |          |                                      |     |
| SIGNATURE:             |          |                                      |     |

## DAILY FIELD REPORT

DAY: Monday

DATE: 4/7/14



Temperature (F°): AM/PM 40° F / ° F  
Wind Speed (MPH)/Direction: 5 mph S/E  
AM Weather Conditions: cloudy  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andrews

0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Allegro

9.0

Sub-Contractor Personnel On-Site:

Hours Worked

Calsculde x5

9.0

Visitors On-Site:

|                                                                                                                |                |                                          |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                            | De-Mobilized On: |
| mini<br>drill<br>Rig                                                                                           | cascade        |                                          | 4/7/14           |
| TRUCK Rig<br>new                                                                                               |                | 4/7/14                                   |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                             |                  |
|                                                                                                                |                |                                          |                  |
| Health & Safety:                                                                                               |                |                                          |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                        |                  |
|                                                                                                                |                |                                          |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                  | No ( )           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes ( )      N/A ( )      *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( )      N/A ( )      *No ( ) |                  |
|                                                                                                                |                | Air: Yes ( )      N/A ( )      *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments                 |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                          |                  |
|                                                                                                                |                |                                          |                  |

## Description of Daily Work Performed :

52-42

Installed NRW#11 to 57' FT w/ 5' FT SUMP, 10' FT S/S SCREEN FROM 52-42  
 Riser from 42-22' FT 15' FT S/S SCREEN FROM 22-7, Riser from 7-0  
 - Developed NAW#6 Removed GAL'S TOTAL

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



**FAX # 508-393-5704**

|                 |                           |                             |                |
|-----------------|---------------------------|-----------------------------|----------------|
| DATE:           |                           | 4-7-2014                    |                |
| REP:            |                           |                             |                |
| COMPANY:        |                           | EnviroTrac                  |                |
| CREW MEMBERS:   | <del>JOHN POSTERICK</del> | D.duchnowski                | JOHN POSTERICK |
| Travel:         |                           | 1.00                        | 1.00           |
| On Site:        |                           | 10.00                       | 10.00          |
| Misc. Off Site: |                           |                             |                |
| JOB LOCATION:   |                           | National Grid, Brooklyn, NY |                |
| DRILL #         |                           | M1386                       |                |

**Breakout Hourly Activity**

| TIME        |                                  |
|-------------|----------------------------------|
| 0700 - 0800 | PUMP OUT TANKS AND DRUMS         |
| 0800 -      | SET UP PULSTAR ON NRW#6          |
|             | FINISH DEVELOPMENT               |
| 1700        | SET FORMS ON NRW#7, NRW#8, NRW#9 |
|             |                                  |
|             | 9 HRS ON SIDEWALK                |
|             |                                  |
|             |                                  |
|             |                                  |
|             |                                  |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| Surface completion                                   |          | Each  |
| NRW#6 Well Development / Well                        | 1        | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

Other Duties Performed Not Included in the Billable Items

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs   |
|------------------------|----------|--------------------------------------|-------|
| Hours On Site          | 10.00    |                                      | 10.00 |
| Footage Drilled        |          |                                      |       |
| Well Installed (FT.)   |          |                                      |       |
| Boring Abandoned (FT.) |          |                                      |       |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-7-2014           |
| CLIENT REP:   | Mike Alio          |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | DENNIS DUCHNOWSKI  |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: *Tuesday* DATE: *4/8/14*Temperature (F°): AM/PM *45° F / ° F*  
Wind Speed (MPH)/Direction: *5 mph S/W*  
AM Weather Conditions: *cloudy*  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

*Andreds*

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

*Mike Allegio**Mike Rose*

Sub-Contractor Personnel On-Site:

Hours Worked

*Cascade**John, Dennis*

Visitors On-Site:

|                                                                                                                |                |                                |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                  | De-Mobilized On: |
|                                                                                                                |                |                                |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                   |                  |
|                                                                                                                |                |                                |                  |
| Health & Safety:                                                                                               |                |                                |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE              |                  |
| M. Ke Allegro                                                                                                  | 7:00 - 15:30   | D                              |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                        | No (x)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (x) N/A ( ) *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( ) N/A ( ) *No ( ) |                  |
|                                                                                                                |                | Air: Yes (x) N/A ( ) *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments       |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                |                  |
|                                                                                                                |                |                                |                  |

## Description of Daily Work Performed :

- developed NRW #13 175 GAL'S TOTAL VRS STOPPED
- developed NRW #12 175 GAL HEAVY TAR
- developed NRW #11 pumped 200 GAL'S NO TAR

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:



FAX # 508-393-5704

|                            |                             |              |                |
|----------------------------|-----------------------------|--------------|----------------|
| Cascade Drilling Project # |                             | 114-14-6511  |                |
| DATE:                      | 4-8-2014                    |              |                |
| REP:                       |                             |              |                |
| COMPANY:                   | EnviroTrac                  |              |                |
| CREW MEMBERS:              | <del>022222</del>           | D.duchnowski | JOHN POSTERICK |
| Travel:                    |                             | 1.00         | 1.00           |
| On Site:                   |                             | 10.00        | 10.00          |
| Misc. Off Site:            |                             |              |                |
| JOB LOCATION:              | National Grid, Brooklyn, NY |              |                |
| DRILL #                    | M1386                       |              |                |

**Breakout Hourly Activity**  
**TIME**

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| 0700-0800 | CLEAN UP SITE CRUSH USED BARRELS                                        |
| 0800-1700 | SET UP PULLSTAR DEVELOPE NRW #13<br>NRW #12, STARTED NRW #11            |
|           | SET 4 SURFACE COMPLETION AND 1<br>REPAIR FROM PRE-CLEAR <del>WELL</del> |
|           | 9 HOURS ON SIDE WALK                                                    |

| DRILLING SCHEDULE OF ITEMS                           | QUANTITY | UNITS |
|------------------------------------------------------|----------|-------|
| Recovery Well Drilling                               |          | Feet  |
| Recovery Well sump                                   |          | Each  |
| Recovery Well Screen, Stainless Steel                |          | Feet  |
| Recovery Well Screen, PVC                            |          | Feet  |
| Recovery Well Riser, PVC                             |          | Feet  |
| <del>0800</del> Surface completion                   | 4        | Each  |
| Well Development / Well                              | 2        | Each  |
| NAPL Recovery Well Installation Attempted, Abandoned |          | Feet  |
| Standby Time                                         |          | Hours |
|                                                      | 0        | 0     |

|                                                           |
|-----------------------------------------------------------|
| Other Duties Performed Not Included in the Billable Items |
|                                                           |
|                                                           |

| ITEM                   | Quantity | Head Failure / Rig Failure/ Downtime | Hrs |
|------------------------|----------|--------------------------------------|-----|
| Hours On Site          | 10.00    |                                      |     |
| Footage Drilled        |          |                                      |     |
| Well Installed (FT.)   |          |                                      |     |
| Boring Abandoned (FT.) |          |                                      |     |

|               |                    |
|---------------|--------------------|
| DATE:         | 4-8-2014           |
| CLIENT REP:   | Mike Aliello       |
| SIGNATURE:    | <i>[Signature]</i> |
| BLY OPERATOR: | DENNIS DUCHNOWSKI  |
| SIGNATURE:    | <i>[Signature]</i> |

## DAILY FIELD REPORT

DAY: Wednesday DATE: 4/9/14



Temperature (F°): AM/PM 45° F / ° F  
Wind Speed (MPH)/Direction: 5 mph W/SW  
AM Weather Conditions: Sunny  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Mike Aliaga

9.0

Sub-Contractor Personnel On-Site:

Hours Worked

Caldwell

9.0

Visitors On-Site:

|                                                                                                                |                |                                          |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name    | Mobilized On:                            | De-Mobilized On: |
|                                                                                                                |                |                                          |                  |
| Deliveries to the Site today:                                                                                  |                | Measurement:                             |                  |
|                                                                                                                |                |                                          |                  |
| Health & Safety:                                                                                               |                |                                          |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE                        |                  |
|                                                                                                                |                |                                          |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )                                  | No (X)           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes (X)      N/A ( )      *No ( )  |                  |
|                                                                                                                |                | Water: Yes ( )      N/A ( )      *No ( ) |                  |
|                                                                                                                |                | Air: Yes (X)      N/A ( )      *No ( )   |                  |
|                                                                                                                |                | *If No, provide comments                 |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                                          |                  |
|                                                                                                                |                |                                          |                  |

## Description of Daily Work Performed :

Developed NRW #11 Removed 200 GAL'S - 400 TOTAL for well w/ 200 pumps on 4/8/14  
 Developed NRW #10 Removed 256 GAL'S Below 50 NTU'S, TDR NOTED URS  
 CONTINUED PUMPING  
 Developed NRW #9 Pumped 400 GAL'S TOTAL URS wanted Turbid Below 50  
 NOTED Heavy TDR THROUGHOUT DEVELOPMENT

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Thurs.

DATE: 4-10-14



Temperature (F°): AM/PM 50°F/60°F  
 Wind Speed (MPH)/Direction: 10 mph E to W  
 AM Weather Conditions: Sunny, 50°  
 PM Weather Conditions: Sunny, 60°

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Popolopoulos

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Rob Bauer

9.5

Mike Rose

4.5

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade Drilling

John Postevick

9.5

Dennis Duchnowski

9.5

Aarco

Martin Valesquez

25 min.

Visitors On-Site:

Jim Van Horn.

|                                                                                                                |                    |                                                                                                                                                                     |                  |
|----------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Equipment On-Site:                                                                                             | Vendor Name        | Mobilized On:                                                                                                                                                       | De-Mobilized On: |
| Pump Truck<br>Tow behind<br>Compressor                                                                         | > cascade Drilling |                                                                                                                                                                     |                  |
| Deliveries to the Site today:                                                                                  |                    | Measurement:                                                                                                                                                        |                  |
| Dumpster Pick up - Aerco                                                                                       |                    |                                                                                                                                                                     |                  |
| Health & Safety:                                                                                               |                    |                                                                                                                                                                     |                  |
| Name                                                                                                           | Time (From-To)     | Task/Level of PPE                                                                                                                                                   |                  |
| Rob Bauer                                                                                                      | 700 -              | well development / Level D                                                                                                                                          |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                    | Yes ( )      No (✓)                                                                                                                                                 |                  |
| Are monitoring results at acceptable levels?                                                                   |                    | Soil:    Yes ( )      N/A ( )      *No ( )<br>Water:   Yes ( )      N/A ( )      *No ( )<br>Air:      Yes (✓)      N/A ( )      *No ( )<br>*If No, provide comments |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                    |                                                                                                                                                                     |                  |
|                                                                                                                |                    |                                                                                                                                                                     |                  |

## Description of Daily Work Performed:

Well development by using pump truck and tow behind compressor.

Set up on NRW-#8 + NRW-#7

NRW-#8 was completed due to product.

NRW-#7 Needs to be finished tomorrow due to recharge problem.

## Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

## Project Schedule Issues:

## Project Budget Issues:

## Items of Concern:

## Comments:

## Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

## Stormwater, Erosion and Sedimentation Control Issues:

## Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Friday

DATE: 4/11/14



Temperature (F°): AM/PM 62° F / 60° F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions:  
PM Weather Conditions: Sunny

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

A.P.

8.0

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Rob Bauer

9.5

Sub-Contractor Personnel On-Site:

Hours Worked

Cascade

John Posternick

Dennis Diehnowski

9.5

9.5

Visitors On-Site:

|                                                                                                                |                |                   |                  |
|----------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------|
| Equipment On-Site:<br><i>Development<br/>Pig</i>                                                               | Vendor Name    | Mobilized On:     | De-Mobilized On: |
| Deliveries to the Site today:                                                                                  |                | Measurement:      |                  |
| Health & Safety:                                                                                               |                |                   |                  |
| Name                                                                                                           | Time (From-To) | Task/Level of PPE |                  |
|                                                                                                                |                | <i>Level (D)</i>  |                  |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) |                | Yes ( )           | No ( )           |
| Are monitoring results at acceptable levels?                                                                   |                | Soil: Yes ( )     | N/A ( ) *No ( )  |
|                                                                                                                |                | Water: Yes ( )    | N/A ( ) *No ( )  |
|                                                                                                                |                | Air: Yes (✓)      | N/A ( ) *No ( )  |
| *If No, provide comments                                                                                       |                |                   |                  |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                |                |                   |                  |

Description of Daily Work Performed :

Completed NRW-8  
Stabilized for highway paving  
Total Volume 291 gal

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Thursday

DATE:

4/24/14



Temperature (F°): AM/PM ° F/ ° F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions:  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Papalopoulos

2

Nation Grid Personnel On-Site:

Hours Worked

Donald Campbell

EnviroTrac Personnel On-Site:

Hours Worked

Zach Berman

3.5

Sub-Contractor Personnel On-Site:

Hours Worked

Tradebe - Ron

1

Jim Van Horn - Innovative

2

Call-A-Head

Visitors On-Site:

|                                                                                                                                                                |                               |                                 |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|----------------------------------------|
| Equipment On-Site:                                                                                                                                             | Vendor Name                   | Mobilized On:                   | De-Mobilized On:                       |
| VAC-Truck<br><del>SATEC</del>                                                                                                                                  | Tradebe<br><del>Sunbelt</del> | 4/28/14<br><del>4/28/14</del>   | 4/28/14<br><del>4/28/14</del>          |
| Deliveries to the Site today:                                                                                                                                  |                               | Measurement:                    |                                        |
|                                                                                                                                                                |                               |                                 |                                        |
| Health & Safety:                                                                                                                                               |                               |                                 |                                        |
| Name                                                                                                                                                           | Time (From-To)                | Task/Level of PPE               |                                        |
| Zach<br>Berman                                                                                                                                                 | 0700 - 1200                   | Level D / Pump out<br>Frac tank |                                        |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern)                                                 |                               | Yes ( )                         | No <input checked="" type="checkbox"/> |
| Are monitoring results at acceptable levels?                                                                                                                   |                               | Soil: Yes ( )                   | N/A ( ) *No ( )                        |
|                                                                                                                                                                |                               | Water: Yes ( )                  | N/A ( ) *No ( )                        |
|                                                                                                                                                                |                               | Air: Yes ( )                    | N/A ( ) *No ( )                        |
| *If No, provide comments                                                                                                                                       |                               |                                 |                                        |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                                                |                               |                                 |                                        |
| <ul style="list-style-type: none"> <li>• Ear protection necessary when working around VAC truck</li> <li>• Watch for pedestrian traffic on sidewalk</li> </ul> |                               |                                 |                                        |

Description of Daily Work Performed :

· Pump out half of R1ae tank

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Monday

DATE: 4/28/14



Temperature (F°): AM/PM °F/ °F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions:  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Andreas Paponacleous

8 hrs

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Zach Berman

8 hrs

Mike Rose

8 hrs

Sub-Contractor Personnel On-Site:

Hours Worked

Jim Van Horn

&amp; Metro Environmental

8 hrs

Visitors On-Site:

|                                                                                                                                           |                    |                               |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|--------------------|
| Equipment On-Site:                                                                                                                        | Vendor Name        | Mobilized On:                 | De-Mobilized On:   |
| NAC - truck<br>BATCO                                                                                                                      | TRADEBE<br>Sunbelt | 4/28/14<br>4/28/14            | 4/28/14<br>4/28/14 |
| Deliveries to the Site today:                                                                                                             |                    | Measurement:                  |                    |
|                                                                                                                                           |                    |                               |                    |
| Health & Safety:                                                                                                                          |                    |                               |                    |
| Name                                                                                                                                      | Time (From-To)     | Task/Level of PPE             |                    |
| Zach<br>Berman                                                                                                                            | 0700 - 1430        | Clean out Frac tank / Level C |                    |
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern)                            |                    | Yes ( )                       | No ( )             |
| Are monitoring results at acceptable levels?                                                                                              |                    | Soil: Yes ( )                 | N/A ( ) *No ( )    |
|                                                                                                                                           |                    | Water: Yes ( )                | N/A ( ) *No ( )    |
|                                                                                                                                           |                    | Air: Yes ( )                  | N/A ( ) *No ( )    |
|                                                                                                                                           |                    | *If No, provide comments      |                    |
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions)                                           |                    |                               |                    |
| <ul style="list-style-type: none"> <li>Using proper PPE when inside Frac tank.</li> <li>Carefully entering &amp; exiting Tank.</li> </ul> |                    |                               |                    |

Description of Daily Work Performed :

- Suck out remaining ~~no~~ liquid in Free tank
- Remove Solids from bottom of tank & properly dispose
- Clean up work site.
- VAC Truck took liquids & Slurry mix from tank.

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

## DAILY FIELD REPORT

DAY: Tuesday DATE: 4/29/14



Temperature (F°): AM/PM 58 F / ° F  
Wind Speed (MPH)/Direction: mph  
AM Weather Conditions: overcast  
PM Weather Conditions:

Client: National Grid

Project Name: Former Williamsburg Works MGP site

Purchase Order Number:

EnviroTrac Project Number: 01.NG0003.00

Construction Oversight / Engineer: URS

Location: 50 Kent Avenue, Brooklyn, NY

URS Personnel On-Site:

Hours Worked

Nation Grid Personnel On-Site:

Hours Worked

EnviroTrac Personnel On-Site:

Hours Worked

Zach Berman

Sub-Contractor Personnel On-Site:

Hours Worked

Visitors On-Site:

|                    |             |               |                  |
|--------------------|-------------|---------------|------------------|
| Equipment On-Site: | Vendor Name | Mobilized On: | De-Mobilized On: |
| FRAC<br>TANK       |             |               |                  |

|                               |              |
|-------------------------------|--------------|
| Deliveries to the Site today: | Measurement: |
|                               |              |

| Health & Safety: |                |                                 |
|------------------|----------------|---------------------------------|
| Name             | Time (From-To) | Task/Level of PPE               |
| Zach<br>Berman   | 0700 -         | De-mobilize Frac tank / Level D |

|                                                                                                                |                          |                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| Are there any changes to the Health & Safety Plan?<br>(If yes, list the deviation under the items for concern) | Yes ( )                  | No ( )          |
| Are monitoring results at acceptable levels?                                                                   | Soil: Yes ( )            | N/A ( ) *No ( ) |
|                                                                                                                | Water: Yes ( )           | N/A ( ) *No ( ) |
|                                                                                                                | Air: Yes ( )             | N/A ( ) *No ( ) |
|                                                                                                                | *If No, provide comments |                 |

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Daily health and safety Audit: (Site conditions, Personnel conducting work, Corrective actions) |
| <p>Take extra caution when entering side street.<br/>(pedestrians, bicycles, traffic)</p>       |

Description of Daily Work Performed :

\* De-mobilize FRAC TANK

Sampling (Soil/Water/Air):

Sample ID:

Sample Location:

Description:

Project Schedule Issues:

Project Budget Issues:

Items of Concern:

Comments:

Attachment(s) to this Report:

Photos    yes    no

Site Sketch    yes    no

Field Notes    yes    no

Stormwater, Erosion and Sedimentation Control Issues:

Community Air Monitoring Issues:

EnviroTrac Super:

Date:

Signature:

APPENDIX D  
PHOTO LOG

## PHOTOGRAPH LOG



Photo 1: Preclearing well location to 5 feet.



Photo 2: Precleared hole to 5 foot.

## PHOTOGRAPH LOG



Photo 3: Precleared hole to 5 foot.



Photo 4: Asphalt patch over backfilled hole.

## PHOTOGRAPH LOG



Photo 5: Delivery of water storage tank.



Photo 6: Rolloff for soil and concrete/asphalt.

## PHOTOGRAPH LOG



Photo 7: 10" drill casing for drilling bore hole.



Photo 8: Sonic Drill Rig setup and collection pan.

## PHOTOGRAPH LOG



Photo 9: Continuous sampling during soil boring.



Photo 10: Sand Pack Media.

## PHOTOGRAPH LOG



Photo 11: Bentonite chips.



Photo 12: Cement bag for final well cover installation.

## PHOTOGRAPH LOG



Photo 13: Bentonite chips poured into boring.



Photo 14: CAMP setup during drilling.

## PHOTOGRAPH LOG



Photo 15: CAMP setup and traffic safety barriers.



Photo 16: Coring 24" inactive gas line along N. 12<sup>th</sup> Street.

## PHOTOGRAPH LOG



Photo 17: Cored hole through 24" gas line.



Photo 18: PVC casing plug for 24" inactive gas line.

## PHOTOGRAPH LOG



Photo 19: Well plug installed after well installation and grouted.



Photo 20: Placing cement around well cover and sidewalk restoration.

## PHOTOGRAPH LOG



Photo 21: Completed well cover and concrete restoration.



Photo 22: Completed well cover.

## PHOTOGRAPH LOG



Photo 23: Well development.

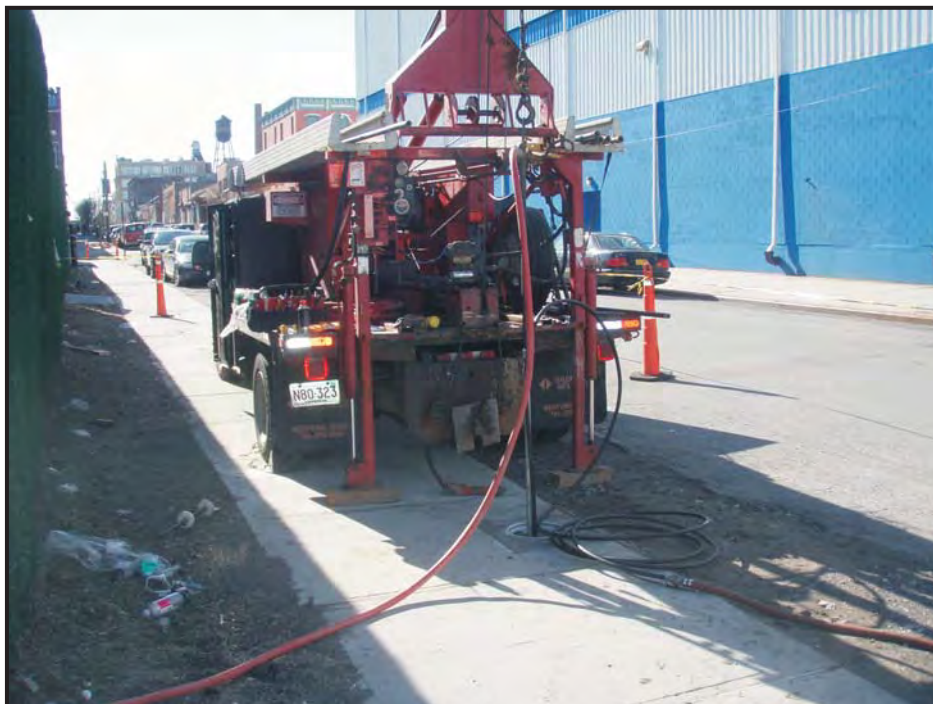


Photo 24: Well development.

## PHOTOGRAPH LOG



Photo 25: Sample of well development.



Photo 26: Sample of well development.

APPENDIX E  
PERMITS



# NYC Department of Transportation



## Office of Permit Management

### STREET OPENING PERMIT

PERMIT#: B01-2014049-106

ISSUED DATE: 02/18/2014 PERMIT VALID FROM: 02/26/2014 TO: 03/26/2014  
BOROUGH: BROOKLYN PERMIT TYPE: 0126 - TEST PITS, CORES OR BORING  
FEES (NON-REFUNDABLE): ROADWAY TYPE:  
ADMIN \$135.00 SIDEWALK TYPE: CONCRETE  
TOTAL: \$135.00 PAID

#### PERMISSION HEREBY GRANTED TO:

NAME: ENVIROTRAC LTD. LICENSE #:  
CONTACT NAME: BYRNES JOSEPH CONTRACT #: None  
PHONE: ( 631 ) 924 - 3001 SPONSORING AGENCY: None  
ADDRESS: 5 OLD DOCK ROAD YAPHANK, NY 11980

#### TO OPEN THE SIDEWALK AT:

HOUSE#:   
ON STREET: NORTH 12 STREET  
FROM STREET: KENT AVENUE  
TO STREET: BODY OF WATER  
LOCATION DETAILS: SOUTH SIDEWALK OF NORTH 12 STREET SUBMITTED AS: NORTH 12 STREET BODY  
OF WATER KENT AVENUE  
FOR PURPOSE OF: GROUNDWATER MONITORING WELL INSTALLATION  
FOR MAX. LENGTH OF: 40 FT

INSPECT DIST: 66 COMM. BOARD: 01  
RECORDED: None WEBTRACKING #: 201402180106 SEQUENCE #: 0001

Note: If House Number is not provided Permittee shall use "Location Details" box to indicate a specific location of the work area within a block (for all non-Contract work, i.e. Contract #: None).

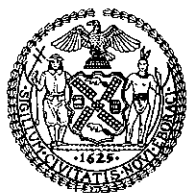
**PERMITTEE SHALL COMPLY WITH ALL APPLICABLE LAWS, RULES AND SPECIFICATIONS OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION AND WITH THE TERMS AND CONDITIONS OF THE PERMIT. FAILURE TO COMPLY MAY RESULT IN REVOCATION OF THE PERMIT BY THE COMMISSIONER.**

**TAMPERING WITH OR KNOWINGLY MAKING A FALSE ENTRY IN OR FALSELY ALTERING THIS PERMIT MAY RESULT IN A RESTRICTION IN OBTAINING FUTURE NYCDOT PERMITS.**

NYS LAW

CALL NEW YORK 811, INC. AT 1-800-272-4480 OR 811 BEFORE STREET OPENING EXCAVATIONS. NEW YORK STATE INDUSTRIAL CODE RULE 753 MANDATES 2-10 BUSINESS DAYS NOTICE PRIOR TO DIGGING.

**PERMITTEE SHALL COMPLY WITH ALL OF THE FOLLOWING STIPULATIONS**



# NYC Department of Transportation

## Office of Permit Management

### STREET OPENING PERMIT

PERMIT#: B01-2014049-106



#### SPECIFIC STIPULATION

NONE

- 019 WORK 7AM - 6PM, MONDAY THROUGH FRIDAY
- 038 ALL TEMPORARY TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, FENCING AND MARKINGS SHALL BE PROVIDED, INSTALLED, MAINTAINED AND REMOVED BY THE PERMITTEE IN ACCORDANCE WITH THE MOST RECENT VERSION OF PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). OBTAIN THE MUTCD AT [HTTP://MUTCD.FHWA.DOT.GOV](http://MUTCD.FHWA.DOT.GOV).
- 078 FULL WIDTH OF ROADWAY SHALL BE OPENED TO TRAFFIC WHEN SITE IS UNATTENDED.
- 091 THIS PERMIT ACTIVITY MAY NOT START UNTIL THE PERMITTEE COORDINATES ALL WORK WITH ANY ONGOING CONSTRUCTION & WITH THE PROJECT/RESIDENT ENGINEER FOR ANY ONGOING CAPITAL PROJECTS.
- 103 PARKING OF NON-COMMERCIAL VEHICLES ON THE STREET (ROADWAY AND SIDEWALK) WITHIN WORK ZONES IS PROHIBITED.
- 107 LOADING AND UNLOADING, STANDING OR PARKING IN A LANE ADJACENT TO THE WORK ZONE IN THE ROADWAY IS PROHIBITED. THIS APPLIES TO PERMITTEES AND ALL OF THEIR SUBCONTRACTORS.
- 112 MAINTAIN 1-11 FOOT LANE ON ONE-WAY STREETS AND 2-11 FOOT LANES ON TWO-WAY STREETS.
- NOISE1 BY SUBMITTING THIS APPLICATION AND/OR RENEWAL REQUEST, THE PERMITTEE CERTIFIES ITS COMPLIANCE WITH ALL APPLICABLE CITYWIDE CONSTRUCTION NOISE MITIGATION REQUIREMENTS UNCLDING, BUT NOT LIMITED TO THE DEVELOPMENT OF A COMPLIANT NOISE MITIGATION OR ALTERNATIVE NOISE MITIGATION PLAN. PLEASE CONTACT THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION ([WWW.NYC.GOV/DEP](http://WWW.NYC.GOV/DEP)) FOR FURTHER INFORMATION
- OCMC12 FULL SIDEWALK CLOSURE ALLOWED FOR SIDE WALKS LESS THAN 15 FT WIDE. POST SIGNS MEETING NYCDOT SPECS AT WORK ZONE AND AT BOTH INTERSECTIONS DIRECTING PEDS TO OPPOSITE SIDEWALK. MAINTAIN 5 FEET FOR PEDS ON SIDEWALKS 15 FEET OR MORE IN WIDTH. AFTER WORKING HOURS MINIMUM OF 5 FEET OF SIDEWALK MUST BE MAINTAINED FOR PEDESTRIANS IN BOTH CASES.
- SCHOOL NO WORK TO BE PERFORMED WITHIN BLOCK FRONTING SCHOOL INCLUDING INTERSECTIONS FOR ONE HOUR PRIOR TO SCHOOL START TIME THROUGH ONE HOUR AFTER END OF SCHOOL TIME. PERMITTEE MUST NOTIFY SCHOOL PRINCIPAL IN WRITING 48 HOURS PRIOR TO BEGINNING ANY WORK. THIS STIP VOIDS ANY/ ALL OTHER CONFLICTING STIPS ON THIS PERMIT UNLESS ACCOMPANIED WITH VARIANCE STIP VAR001.
- TMC001 CONTRACTORS WHO AT ANY TIME DURING THEIR PERMITTED WORK ENCOUNTER TRAFFIC SURVEILLANCE CAMERAS, DETECTION EQUIP OR ANY TYPE OF COMMUNICATION EQUIPMENT (WIRELESS OR HARD-WIRED) ON ANY NYCDOT FACILITY, THAT IS NOT INCLUDED ON THE DESIGN/BUILD DWGS, SHALL IMMEDIATELY NOTIFY NYCDOT TRAFFIC MANAGEMENT AT [TMC@DOT.NYC.GOV](mailto:TMC@DOT.NYC.GOV) & 718-433-3390/40 AND AWAIT DIRECTION PRIOR TO CONTINUING WORK
- WAGE01 NYC ADMINISTRATIVE CODE, 19-142, WORKERS ON EXCAVATIONS: A PERSON TO WHOM A PERMIT MAY BE ISSUED, TO USE OR OPEN A STREET, SHALL BE REQUIRED, BEFORE SUCH PERMIT MAY BE ISSUED, TO AGREE THAT NONE BUT COMPETENT WORKERS, SKILLED IN THE WORK REQUIRED OF THEM, SHALL BE EMPLOYED THEREON, (CONT. ON STIP WAGE02)
- WAGE02 ...AND THAT THE PREVAILING SCALE OF UNION WAGES SHALL BE THE PREVAILING WAGE FOR SIMILAR TITLES AS ESTABLISHED BY THE FISCAL OFFICER PURSUANT TO SEC. TWO HUNDRED TWENTY OF THE LABOR LAW, PAID TO THOSE SO EMPLOYED.



# NYC Department of Transportation

## Office of Permit Management

### STREET OPENING PERMIT

PERMIT#: B01-2014049-107



**ISSUED DATE:** 02/18/2014 **PERMIT VALID FROM:** 02/26/2014 **TO:** 03/26/2014  
**BOROUGH:** BROOKLYN **PERMIT TYPE:** 0126 - TEST PITS, CORES OR BORING  
**FEES (NON-REFUNDABLE):** **ROADWAY TYPE:**  
**ADMIN** \$135.00 **SIDEWALK TYPE:** CONCRETE  
**TOTAL:** \$135.00 PAID

#### PERMISSION HEREBY GRANTED TO:

**NAME:** ENVIROTRAC LTD. **LICENSE #:**  
**CONTACT NAME:** BYRNES JOSEPH **CONTRACT #:** None  
**PHONE:** ( 631 ) 924 - 3001 **SPONSORING AGENCY:** None  
**ADDRESS:** 5 OLD DOCK ROAD YAPHANK, NY 11980

#### TO OPEN THE SIDEWALK AT:

**HOUSE#:**  
**ON STREET:** NORTH 11 STREET  
**FROM STREET:** DEAD END  
**TO STREET:** KENT AVENUE  
**LOCATION DETAILS:** NORTH SIDEWALK OF NORTH 11 STREET SUBMITTED AS:NORTH 11 STREET KENT AVENUE DEAD END  
**FOR PURPOSE OF:** GROUNDWATER MONITORING WELL INSTALLATION  
**FOR MAX. LENGTH OF:** 40 FT

**INSPECT DIST:** 66 **COMM. BOARD:** 01  
**RECORDED:** None **WEBTRACKING #:** 201402180106 **SEQUENCE #:** 0002

Note: If House Number is not provided Permittee shall use "Location Details" box to indicate a specific location of the work area within a block (for all non-Contract work, i.e. Contract #: None).

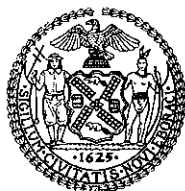
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NYS LAW

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**PERMITTEE SHALL COMPLY WITH ALL OF THE FOLLOWING STIPULATIONS**



# NYC Department of Transportation

## Office of Permit Management

### STREET OPENING PERMIT

PERMIT#: B01-2014049-107



#### SPECIFIC STIPULATION

NONE

- 019 WORK 7AM - 6PM, MONDAY THROUGH FRIDAY
- 038 ALL TEMPORARY TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, FENCING AND MARKINGS SHALL BE PROVIDED, INSTALLED, MAINTAINED AND REMOVED BY THE PERMITTEE IN ACCORDANCE WITH THE MOST RECENT VERSION OF PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). OBTAIN THE MUTCD AT [HTTP://MUTCD.FHWA.DOT.GOV](http://MUTCD.FHWA.DOT.GOV).
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- WAGE01 NYC ADMINISTRATIVE CODE, 19-142, WORKERS ON EXCAVATIONS: A PERSON TO WHOM A PERMIT MAY BE ISSUED, TO USE OR OPEN A STREET, SHALL BE REQUIRED, BEFORE SUCH PERMIT MAY BE ISSUED, TO AGREE THAT NONE BUT COMPETENT WORKERS, SKILLED IN THE WORK REQUIRED OF THEM, SHALL BE EMPLOYED THEREON, (CONT. ON STIP WAGE02)
- WAGE02 ...AND THAT THE PREVAILING SCALE OF UNION WAGES SHALL BE THE PREVAILING WAGE FOR SIMILAR TITLES AS ESTABLISHED BY THE FISCAL OFFICER PURSUANT TO SEC. TWO HUNDRED TWENTY OF THE LABOR LAW, PAID TO THOSE SO EMPLOYED.

APPENDIX F  
WELL CONSTRUCTION DOCUMENTATION

National Grid Index Color 34  
(True Color 152, 76, 0)



TAR SATURATED

True Color 255, 135, 0



INTERBEDDED LENSES  
OF SATURATED TAR

National Grid Index Color 40  
(True Color 255, 191, 0)



BLEBS, GLOBS, LENSES,  
COATINGS

National Grid Index Color 64  
(True Color 114, 152, 0)



TAR SHEEN/ STAINING

National Grid Index Color 131  
(True Color 127, 255, 255)



TAR/  
NAPHTHALENE-LIKE  
ODORS

National Grid Index Color 180  
(True Color 63, 0, 255)  
FILL CH, ANGLE 121



PETROLEUM SHEEN/  
STAINING

National Grid Index Color 180  
(True Color 63, 0, 255)  
FILL DOTS



PETROLEUM ODORS

National Grid Index Color 123  
(True Color 102, 204, 178)



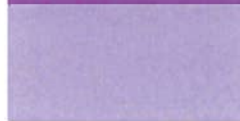
SOLID TAR

True Color 170, 100, 220



PURIFIER MATERIAL

True Color 190, 180, 220



PURIFIER ODORS

**NOTES:**

1. USE ONLY THE COLOR KEYS FOR THE CONDITIONS THAT ARE ENCOUNTERED AT A GIVEN SITE. IF CONDITIONS DESCRIBED ABOVE DO NOT EXIST, DO NOT USE IN LEGEND.
2. THE COLOR DESCRIPTORS ABOVE ARE TO BE USED IN CONJUNCTION WITH THE "ENVIRONMENTAL TERMINOLOGY FOR SOIL DESCRIPTIONS" BY M. PASTER OF GEI CONSULTANTS, INC.

NATIONAL GRID IMPACT COLORS

**COLORS FOR  
NATIONAL GRID IMPACTS**

**nationalgrid**

February 2011

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688706.95 EASTING: 641842.17

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 12.15

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 3/18/14

None None DIA.

10"

DATE FINISHED: 3/18/14

WT.

DRILLER: John Graglia

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

DEPTH  
FEET

STRATA

VISUAL  
IMPACTS

SAMPLE

"S"  
NO.

"N"  
NO.

BLOW  
COUNT

REC%

RQD%

COLOR

MATERIAL  
DESCRIPTION

PID

REMARKS

|     |  |  |    |  |  |  |     |            |                                                                         |      |                                                                                               |
|-----|--|--|----|--|--|--|-----|------------|-------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------|
| 0   |  |  | 5  |  |  |  |     |            | Boring hand-cleared to 5 ft bgs                                         |      |                                                                                               |
| -5  |  |  | 10 |  |  |  | 72  | Gray       | Fine to medium SAND and SILT (SM), some gravel                          | 37.6 | Strong petroleum-like odor, coated (80% saturation), staining of sand grains, metallic luster |
| -10 |  |  | 15 |  |  |  | 100 | Gray       | Fine to medium SAND and SILT (SM), some gravel                          | 60.5 | Blebs, mod naphthalene-like odor, coated (80% saturation), light staining                     |
| -15 |  |  | 20 |  |  |  | 88  | Brown      | Inorganic SILT (ML), some medium to fine sand, trace mica flakes, moist | 19.1 | Faint naphthalene-like odor, light staining, no blebs, no sheen                               |
| -20 |  |  | 21 |  |  |  | 45  | Blue Brown | Inorganic SILT (ML), some fine sand, moist                              | 16.1 |                                                                                               |
|     |  |  | 25 |  |  |  |     | Brown      | GRAVEL and fine to medium SAND, some silt (GM), dry                     |      | Faint naphthalene-like odor, light staining, no blebs, no sheen                               |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

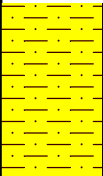
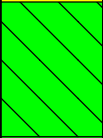
SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION                                                 | PID  | REMARKS                                                                         |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|-------------------------------------------------------------------------|------|---------------------------------------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                                                                         |      |                                                                                 |
| -25           |        |                   | 27         |            |               | 72   | Gray  | GRAVEL and SILT (GM), some fine sand, moist                             | 19   | Faint naphthalene-like odor                                                     |
|               |        |                   | 29         |            |               |      | Gray  | Gray fine to medium SAND and SILT, some gravel (SM), moist              |      | Strong naphthalene-like odor, moderate staining                                 |
| -30           |        |                   | 35         |            |               | 60   | Brown | GRAVEL and SILT, some fine to medium sand, moist                        | 2423 |                                                                                 |
|               |        |                   |            |            |               |      |       |                                                                         | 1173 | Strong naphthalene-like odor, coated (50% saturation), sheen, moderate staining |
| -35           |        |                   | 40         |            |               | 100  | Brown | Fine to medium SAND, trace silt (SP), wet                               | 293  | Saturation, Blebs, strong naphthalene-like odor                                 |
| -40           |        |                   | 45         |            |               | 100  | Brown | Fine to medium SAND, trace to little silt (SP), moist                   | 91.4 | Moderate naphthalene-like odor, coated (80% saturation), metallic sheen         |
| -45           |        |                   | 50         |            |               | 100  | Brown | Fine to medium SAND, trace silt (SP), moist                             | 996  | Saturation, strong naphthalene-like odor                                        |
| -50           |        |                   | 53         |            |               | 100  | Gray  | Fine to medium SAND, trace silt (SP), moist                             | 8.6  | Blebs, coated (50% saturation), faint naphthalene-like odor                     |
|               |        |                   | 55         |            |               |      | Gray  | SILT, trace mica (ML), moist                                            |      | Faint naphthalene-like odor, no product impact                                  |
| -55           |        |                   | 60         |            |               | 100  | Gray  | SILT, some clay, little fine to medium sand, low plasticity (ML), moist |      |                                                                                 |

COMMENTS:

| URS Corporation                                        |                                                                                   |                                                                                   |            |            |               |      | TEST BORING LOG          |                                             |     |                                                |
|--------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|------------|---------------|------|--------------------------|---------------------------------------------|-----|------------------------------------------------|
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |                                                                                   |                                                                                   |            |            |               |      | BORING NO. : NRW-1       |                                             |     |                                                |
|                                                        |                                                                                   |                                                                                   |            |            |               |      | SHEET: 3 OF 3            |                                             |     |                                                |
| CLIENT: National Grid                                  |                                                                                   |                                                                                   |            |            |               |      | JOB NO. : 11176638.00001 |                                             |     |                                                |
| DEPTH<br>FEET                                          | STRATA                                                                            | VISUAL<br>IMPACTS                                                                 | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION                     | PID | REMARKS                                        |
|                                                        |                                                                                   |                                                                                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                                             |     |                                                |
| -60                                                    |  |  |            |            |               |      |                          |                                             | 5.2 | Faint naphthalene-like odor, no product impact |
|                                                        |                                                                                   |                                                                                   | 62         |            |               | 100  | Gray                     | Fine to medium SAND, trace silt (SP), moist | 3.9 |                                                |
|                                                        |                                                                                   |                                                                                   | 65         |            |               |      | Orange                   | CLAY, stiff, high plasticity (CH)           |     |                                                |
| -65                                                    |  |                                                                                   |            |            |               |      |                          | Bottom of borehole 65 ft bgs                |     | No product impact                              |
| -70                                                    |                                                                                   |                                                                                   |            |            |               |      |                          |                                             |     |                                                |
| -75                                                    |                                                                                   |                                                                                   |            |            |               |      |                          |                                             |     |                                                |
| -80                                                    |                                                                                   |                                                                                   |            |            |               |      |                          |                                             |     |                                                |
| -85                                                    |                                                                                   |                                                                                   |            |            |               |      |                          |                                             |     |                                                |

COMMENTS:

BORING NO. : NRW-1

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688732.36 EASTING: 641812.31

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 11.47

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 03/12/2014

None None DIA.

10"

DATE FINISHED: 03/12/2014

WT.

DRILLER: John Graglia

FALL

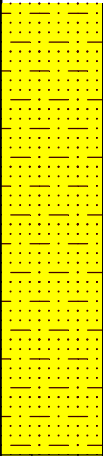
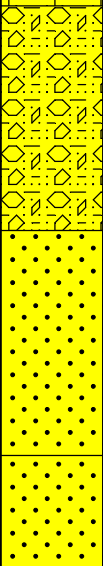
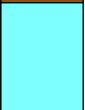
GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC%<br>RQD% | COLOR | MATERIAL<br>DESCRIPTION | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|--------------|-------|-------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT |              |       |                         |     |         |

|     |  |  |   |  |  |     |       |                                                                                  |       |                                                                           |
|-----|--|--|---|--|--|-----|-------|----------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------|
| 0   |  |  |   |  |  |     |       | Boring hand-cleared                                                              |       |                                                                           |
| -5  |  |  | 1 |  |  | 100 | Gray  | Fine to medium SAND and SILT (SM)                                                | 24.90 | Coated ( 80% saturation), strong petroleum-like odor, staining, sheen     |
|     |  |  |   |  |  |     |       | SILT, some sand (ML)                                                             | 0.0   | No indication of product                                                  |
| -10 |  |  | 2 |  |  | 68  | Brown | Fine to medium SAND and SILT, some gravel, moist (SM)                            | 22.3  | Coated (55-75% saturation), strong naphthalene-like odor, sheen, staining |
| -15 |  |  | 3 |  |  | 100 |       | Inorganic SILT, low plasticity, some fine to medium sand, trace mica flakes (ML) | 0.0   | No indication of product                                                  |
| -20 |  |  | 4 |  |  | 65  |       | Fine to medium SAND and SILT, some gravel (SM)                                   | 42.1  | Blebs, coated (20-30% saturation), faint naphthalene-like odor, staining  |

COMMENTS:

| URS Corporation                                        |                                                                                     |                                                                                     |            |            |               |      | TEST BORING LOG          |                                                            |      |                                                                           |  |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------------|---------------|------|--------------------------|------------------------------------------------------------|------|---------------------------------------------------------------------------|--|
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |                                                                                     |                                                                                     |            |            |               |      | BORING NO. : NRW-2       |                                                            |      |                                                                           |  |
|                                                        |                                                                                     |                                                                                     |            |            |               |      | SHEET: 2 OF 3            |                                                            |      |                                                                           |  |
| CLIENT: National Grid                                  |                                                                                     |                                                                                     |            |            |               |      | JOB NO. : 11176638.00001 |                                                            |      |                                                                           |  |
| DEPTH<br>FEET                                          | STRATA                                                                              | VISUAL<br>IMPACTS                                                                   | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION                                    | PID  | REMARKS                                                                   |  |
|                                                        |                                                                                     |                                                                                     | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                                                            |      |                                                                           |  |
| -25                                                    |    |    | 5          |            |               | 100  | Light<br>Brown           |                                                            | 1085 | Saturation, staining, coatings, strong naphthalene-like odor              |  |
| -30                                                    |                                                                                     |                                                                                     | 6          |            |               | 48   |                          |                                                            | 40.8 | Blebs, product observed, strong naphthalene-like odor                     |  |
| -35                                                    |                                                                                     |   | 7          |            |               | 68   |                          | SILT and fine to medium SAND, some gravel, trace clay (ML) | 13.1 | Coated (30-40% saturation), moderate naphthalene-like odor, some staining |  |
| -40                                                    |                                                                                     |                                                                                     | 8          |            |               | 80   |                          | Fine to medium SAND and GRAVEL, trace silt, moist (SP)     | 10.8 | Blebs, coated (50% saturation), sheen, strong naphthalene-like odor       |  |
| -45                                                    |                                                                                     |  | 9          |            |               | 33   |                          | Fine to medium SAND, little gravel, trace silt (SP), wet   | 110  | Saturation, blebs, sheen, coatings, strong naphthalene-like odor          |  |
| -50                                                    |  |                                                                                     | 10         |            |               | 100  |                          | Fine to medium SAND, trace silt (SP)                       | 606  | Saturation, blebs, strong naphthalene-like odor                           |  |
| -55                                                    |                                                                                     |                                                                                     | 11         |            |               | 100  |                          | SILT, trace fine to medium sand (ML)                       | 787  | Strong naphthalene-like odor, no indication of product                    |  |
|                                                        |  |                                                                                     |            |            |               |      |                          |                                                            | 10.6 | SILT, trace clay                                                          |  |
| COMMENTS: _____                                        |                                                                                     |                                                                                     |            |            |               |      |                          |                                                            |      |                                                                           |  |
| BORING NO. : NRW-2                                     |                                                                                     |                                                                                     |            |            |               |      |                          |                                                            |      |                                                                           |  |



BORING NO. : NRW-3

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688886.46 EASTING: 641747.73

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 11.05

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 03/24/14

4/3/14 7.95 DIA.

10"

DATE FINISHED: 03/24/14

WT.

DRILLER: John Cayle

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

DEPTH  
FEET

STRATA

VISUAL  
IMPACTS

SAMPLE

"S"  
NO.

"N"  
NO.

BLOW  
COUNT

REC%  
RQD%

COLOR

MATERIAL  
DESCRIPTION

PID

REMARKS

0

Hand cleared to 5 ft bgs, drill to 7 ft bgs

-5

1

100

Dark  
Brown

Fine to medium sand, some gravel, brick, FILL,  
wet

0.0

Black staining,  
moderate  
petroleum-like  
odor

-10

2

45

Dark  
Brown to  
Dark Gray

Fine to medium SAND, some silt, some gravel,  
trace brick

0.0

Slt petroleum-  
like odor

-15

3

24

Brown  
Gray

Very fine SAND, some silt, little gravel, wet

0.0

GRAVEL, very fine sand, little silt, wet

After extracting last 3 ft of sample, remainder  
in sampler poured out, mainly very fine SAND  
and water

No visual  
impacts

COMMENTS:

Comment

BORING NO. : NRW-3

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR       | MATERIAL<br>DESCRIPTION                                                                 | PID   | REMARKS                                                                |
|---------------|--------|-------------------|------------|------------|---------------|------|-------------|-----------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |             |                                                                                         |       |                                                                        |
| -25           |        |                   |            |            |               |      |             |                                                                                         |       |                                                                        |
|               |        |                   |            |            |               | 100  | Gray        | SILT and GRAVEL, some cobble throughout, some very fine sand, little mica flecks, moist | 0.0   | No visual impacts                                                      |
| -30           |        |                   | 4          |            |               |      |             |                                                                                         |       |                                                                        |
| -35           |        |                   |            |            |               | 100  |             | SILT, some gravel, some cobbles, some very fine sand, little mica flecks, moist         | 0.0   |                                                                        |
| -40           |        |                   | 5          |            |               |      |             |                                                                                         |       |                                                                        |
| -45           |        |                   |            |            |               |      | Brown       | Fine to medium SAND, trace gravel, trace mica flecks, wet                               | 6.0   |                                                                        |
|               |        |                   |            |            |               |      |             |                                                                                         | 234   | Brown staining, strong petroleum-like odor                             |
|               |        |                   |            |            |               | 100  |             | Very fine to fine SAND, some silt, trace mica flecks, moist                             | 1907  | Mod to heavy brown coating, sheen, strong coal tar/petroleum-like odor |
| -50           |        |                   |            |            |               |      |             |                                                                                         | >3000 |                                                                        |
|               |        |                   |            |            |               |      | Gray        | SILT, trace very fine sand and clay, moist                                              | 711   | Slt coal tar/petroleum-like odor                                       |
|               |        |                   | 6          |            |               |      | Brown       | SAND, moist                                                                             |       | Slt sheen, slt coal tar/petroleum-like odor                            |
|               |        |                   |            |            |               |      | Gray        | SILT, some very fine sand, moist                                                        | 843   |                                                                        |
|               |        |                   |            |            |               |      | Brown       |                                                                                         |       |                                                                        |
| -55           |        |                   |            |            |               |      | Red to Gray | SAND, some mica flecks                                                                  |       | Slt coal tar/petroleum-like odor                                       |
|               |        |                   |            |            |               |      |             | CLAY, moist                                                                             |       |                                                                        |

COMMENTS:

Comment

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION    | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|----------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                            |     |         |
| -60           |        |                   | 7          |            |               | 100  |       |                            | 0.0 |         |
| -65           |        |                   |            |            |               |      |       | Bottom of boring 60 ft bgs |     |         |
| -70           |        |                   |            |            |               |      |       |                            |     |         |
| -75           |        |                   |            |            |               |      |       |                            |     |         |
| -80           |        |                   |            |            |               |      |       |                            |     |         |
| -85           |        |                   |            |            |               |      |       |                            |     |         |

COMMENTS: \_\_\_\_\_  
 Comment \_\_\_\_\_  
 \_\_\_\_\_

BORING NO. : NRW-4

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688947.78 EASTING: 641775.14

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 11.04

DATE 4/3/14 TIME LEVEL 6.04 TYPE DIA.

Sonic Drilling 10"

DATE STARTED: 03/27/14

DATE FINISHED: 03/27/14

WT.

DRILLER: John Graglia

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

| DEPTH FEET | STRATA | VISUAL IMPACTS | SAMPLE  |         |            | REC% RQD% | COLOR | MATERIAL DESCRIPTION | PID | REMARKS |
|------------|--------|----------------|---------|---------|------------|-----------|-------|----------------------|-----|---------|
|            |        |                | "S" NO. | "N" NO. | BLOW COUNT |           |       |                      |     |         |

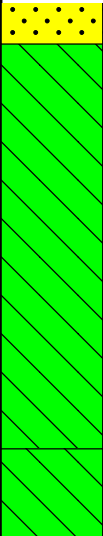
|     |  |  |   |  |  |     |            |                                                                           |      |                                                                  |
|-----|--|--|---|--|--|-----|------------|---------------------------------------------------------------------------|------|------------------------------------------------------------------|
| 0   |  |  |   |  |  |     |            | Hand cleared boring to 5 ft bgs                                           |      |                                                                  |
| -5  |  |  | 1 |  |  | 0   |            | No recovery                                                               |      |                                                                  |
|     |  |  | 2 |  |  | 100 | Brown Gray | Very fine SAND, little silt, some cobbles, some gravel, moist             | 36.2 | Black moderate coating, sheen, slight-mod petroleum-like odor    |
|     |  |  |   |  |  |     |            |                                                                           | 43.7 |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 23.2 |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 31.7 |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 33.5 |                                                                  |
|     |  |  |   |  |  |     | Brown      | Very fine SAND, some silt, some gravel, moist                             | 51.2 | Moderate coating, slight sheen, slight to mod coal tar-like odor |
|     |  |  |   |  |  |     |            |                                                                           | 75.1 |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 47.  |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 92.7 |                                                                  |
|     |  |  |   |  |  |     |            |                                                                           | 50.5 |                                                                  |
|     |  |  | 3 |  |  | 100 | Dark Gray  | Very fine SAND and SILT, moist                                            | 0.0  | Slight coal tar-like odor                                        |
|     |  |  |   |  |  |     |            | Fine to medium SAND, moist                                                | 0.0  |                                                                  |
|     |  |  |   |  |  |     | Brown      | Very fine SAND, some silt, some gravel, cobbles, trace mica flakes, moist | 0.0  |                                                                  |
| -20 |  |  |   |  |  |     |            |                                                                           |      |                                                                  |

COMMENTS:

BORING NO. : NRW-4

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR      | MATERIAL<br>DESCRIPTION                                                    | PID | REMARKS           |
|---------------|--------|-------------------|------------|------------|---------------|------|------------|----------------------------------------------------------------------------|-----|-------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |            |                                                                            |     |                   |
| -25           |        |                   |            |            |               |      |            |                                                                            |     |                   |
|               |        |                   | 4          |            |               | 100  | Gray       | Very fine SAND, SILT and GRAVEL, little mica flakes, 34-35' boulder, moist | 0.0 | No visual impacts |
| -30           |        |                   |            |            |               |      |            |                                                                            |     |                   |
|               |        |                   | 5          |            |               | 80   | Brown      | Fine to very fine SAND, some mica flakes, moist                            | 0.0 | No visual impacts |
| -35           |        |                   |            |            |               |      |            |                                                                            |     |                   |
|               |        |                   | 6          |            |               | 100  |            | Fine to medium SAND, trace gravel, trace mica flakes                       | 0.0 | No visual impacts |
| -40           |        |                   |            |            |               |      |            |                                                                            |     |                   |
|               |        |                   |            |            |               |      | Gray       | SILT, little fine sand, trace gravel, moist                                |     |                   |
| -45           |        |                   |            |            |               |      | Brown Gray | Fine SAND, trace mica flakes, moist                                        |     |                   |
|               |        |                   |            |            |               |      | Gray       | SILT, little fine sand, trace gravel, moist                                |     |                   |
| -50           |        |                   |            |            |               |      |            | Fine SAND, trace gravel, trace mica flakes,                                |     |                   |
| -55           |        |                   |            |            |               |      |            |                                                                            |     |                   |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

| URS Corporation                                        |                                                                                   |                   |            |            |               |      | TEST BORING LOG          |                                      |     |                   |  |  |
|--------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|------------|------------|---------------|------|--------------------------|--------------------------------------|-----|-------------------|--|--|
|                                                        |                                                                                   |                   |            |            |               |      | BORING NO. : NRW-4       |                                      |     |                   |  |  |
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |                                                                                   |                   |            |            |               |      | SHEET: 3 OF 3            |                                      |     |                   |  |  |
| CLIENT: National Grid                                  |                                                                                   |                   |            |            |               |      | JOB NO. : 11176638.00001 |                                      |     |                   |  |  |
| DEPTH<br>FEET                                          | STRATA                                                                            | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION              | PID | REMARKS           |  |  |
|                                                        |                                                                                   |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                                      |     |                   |  |  |
| -60                                                    |  |                   | 7          |            |               | 100  | Brown Gray<br>Gray Red   | moist<br><br>CLAY, trace silt, moist | 0.0 | No visual impacts |  |  |
| -65                                                    |                                                                                   |                   |            |            |               |      | Gray                     | CLAY                                 |     |                   |  |  |
| -70                                                    |                                                                                   |                   |            |            |               |      |                          | Bottom of boring 68 ft bgs           |     |                   |  |  |
| -75                                                    |                                                                                   |                   |            |            |               |      |                          |                                      |     |                   |  |  |
| -80                                                    |                                                                                   |                   |            |            |               |      |                          |                                      |     |                   |  |  |
| -85                                                    |                                                                                   |                   |            |            |               |      |                          |                                      |     |                   |  |  |

COMMENTS:

BORING NO. :

NRW-4

BORING NO. : NRW-5

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688995.13 EASTING: 641810.55

GROUNDWATER: 7.5' bgs

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.91

| DATE   | TIME | LEVEL | TYPE | TYPE |  | Sonic Drilling |  |  | DATE STARTED:  | 03/31/2014    |
|--------|------|-------|------|------|--|----------------|--|--|----------------|---------------|
| 4/1/14 |      | 5.63  |      | DIA. |  | 10"            |  |  | DATE FINISHED: | 03/31/2014    |
|        |      |       |      | WT.  |  |                |  |  | DRILLER:       | Craig         |
|        |      |       |      | FALL |  |                |  |  | GEOLOGIST:     | M. Dascoli    |
|        |      |       |      |      |  |                |  |  | REVIEWED BY:   | Kevin Connare |

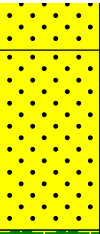
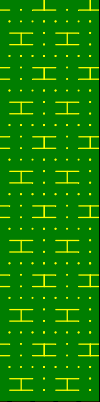
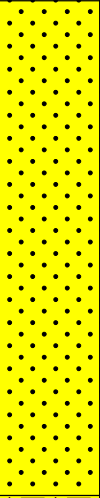
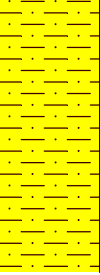
| DEPTH FEET | STRATA | VISUAL IMPACTS | SAMPLE  |         |            | REC%<br>RQD% | COLOR | MATERIAL DESCRIPTION | PID | REMARKS |
|------------|--------|----------------|---------|---------|------------|--------------|-------|----------------------|-----|---------|
|            |        |                | "S" NO. | "N" NO. | BLOW COUNT |              |       |                      |     |         |

|     |  |  |   |  |  |     |                          |                                                                                                  |      |                             |
|-----|--|--|---|--|--|-----|--------------------------|--------------------------------------------------------------------------------------------------|------|-----------------------------|
| 0   |  |  |   |  |  |     |                          | Handcleared to 5' bgs. Drilled to 7' bgs.                                                        |      |                             |
| -5  |  |  |   |  |  |     |                          |                                                                                                  |      |                             |
| -10 |  |  |   |  |  | 100 | Dark Gray                | COBBLES, some silt and few fine to coarse sand, moist (FILL)                                     | 10.5 | Faint coal tar-like odor    |
|     |  |  |   |  |  |     |                          |                                                                                                  | 33.1 |                             |
|     |  |  |   |  |  |     |                          |                                                                                                  | 30.1 | Faint coal tar-like odor    |
|     |  |  |   |  |  |     |                          |                                                                                                  | 8.8  |                             |
| -15 |  |  | 1 |  |  |     | Dark Brown and Dark Gray | WOOD (FILL)                                                                                      | 7.6  | Faint coal tar-like odor    |
|     |  |  |   |  |  | 100 |                          |                                                                                                  | 5.9  |                             |
| -20 |  |  |   |  |  | 100 | Dark Gray                | Clayey SILT, few fine to medium sand, few cobbles (FILL)                                         | 22   | Moderate coal tar-like odor |
|     |  |  |   |  |  |     |                          | Fine SAND and SILT, few gravel and trace cobbles, pockets of silty clay (SM)                     | 17.8 |                             |
|     |  |  | 2 |  |  |     | Medium Brown             | Very fine to medium SAND, some clear mica, few fine gravel, loose, few pockets of some clay (SW) |      | No odor                     |
|     |  |  |   |  |  | 100 |                          |                                                                                                  | 16.6 |                             |
|     |  |  |   |  |  |     |                          |                                                                                                  | 8.2  |                             |

COMMENTS:

No soil samples collected for analysis

BORING NO. : NRW-5

| URS Corporation                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | TEST BORING LOG          |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|-------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------|
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | BORING NO. : NRW-5       |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | SHEET: 2 OF 3            |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| CLIENT: National Grid                                  |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | JOB NO. : 11176638.00001 |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| DEPTH<br>FEET                                          | STRATA                                                                              | VISUAL<br>IMPACTS | SAMPLE                                                                             |                                                                                    |               | REC%                                            | COLOR                    | MATERIAL<br>DESCRIPTION                                                                              | PID                                        | REMARKS |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   | "S"<br>NO.                                                                         | "N"<br>NO.                                                                         | BLOW<br>COUNT | RQD%                                            |                          |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| -25                                                    |    |                   |                                                                                    |                                                                                    |               |                                                 |                          | Mottling, fine SAND, some silt (SM)                                                                  |                                            | No odor |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    | 100           | Dark Red,<br>Medium<br>Brown,<br>Medium<br>Gray |                          |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 1.3                      |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| -30                                                    |    |                   |                                                                                    |                                                                                    |               |                                                 |                          | SILT and CLAY, few fine to coarse sand, few fine to coarse gravel, dense. Few cobbles at 35-37' (ML) | 0                                          |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 0                        |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 0                        |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 0                        |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| -35                                                    |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      | 0                                          |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      | 0                                          |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      | 0                                          |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      | 32.5                                       |         |                                                                                                                                          |         |                          |
| -40                                                    |                                                                                     |                   |  |  |               |                                                 |                          |                                                                                                      |                                            |         | Very fine to fine SAND, some silt and clear mica, loose 44.5-45' and 46-46.5' with SILT and few clay 44.4-44.5' with black staining (ML) | 99.1    | Faint coal tar-like odor |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      |                                            |         |                                                                                                                                          | 227     |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 387                      |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 491                      |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| -45                                                    |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          | 321                                                                                                  |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          | 628                                                                                                  |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          | 384                                                                                                  |                                            |         |                                                                                                                                          |         |                          |
| -50                                                    |  |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      | SILT, some clay and clear mica, dense (SW) | 13.3    |                                                                                                                                          | No odor |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 3.2                      |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | 3.4                      |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| -55                                                    |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
| COMMENTS: No soil samples collected for analysis       |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 |                          |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |
|                                                        |                                                                                     |                   |                                                                                    |                                                                                    |               |                                                 | BORING NO. : NRW-5       |                                                                                                      |                                            |         |                                                                                                                                          |         |                          |

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR         | MATERIAL<br>DESCRIPTION                                                           | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|---------------|-----------------------------------------------------------------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |               |                                                                                   |     |         |
| -60           |        |                   |            |            |               | 100  |               |                                                                                   |     |         |
|               |        |                   |            |            |               |      | Dark Brown    | Very fine to medium SAND, few clear mica and silt, few fine to coarse gravel (SW) | 1.6 | No odor |
|               |        |                   |            |            |               |      |               |                                                                                   | 1.0 |         |
|               |        |                   |            |            |               |      |               |                                                                                   | 0   |         |
|               |        |                   |            |            |               |      | Red and White | CLAY, dense, high plasticity, dense (CH)                                          | 0   |         |
| -65           |        |                   | 6          |            |               | 100  |               |                                                                                   | 0   |         |
|               |        |                   |            |            |               |      |               |                                                                                   | 0   |         |
|               |        |                   |            |            |               |      |               |                                                                                   | 0   |         |
|               |        |                   |            |            |               |      |               |                                                                                   | 0   |         |
|               |        |                   |            |            |               | 100  |               | Bottom of borehole 67 ft bgs                                                      |     |         |
| -70           |        |                   |            |            |               |      |               |                                                                                   |     |         |
| -75           |        |                   |            |            |               |      |               |                                                                                   |     |         |
| -80           |        |                   |            |            |               |      |               |                                                                                   |     |         |
| -85           |        |                   |            |            |               |      |               |                                                                                   |     |         |

COMMENTS:

No soil samples collected for analysis

BORING NO. : NRW-6

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688970.90 EASTING: 641868.46

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 9.60

| DATE   | TIME | LEVEL | TYPE | TYPE |  | Sonic Drilling |  |  | DATE STARTED:  | 04/01/2014            |
|--------|------|-------|------|------|--|----------------|--|--|----------------|-----------------------|
| 4/4/14 |      | 5.35  |      | DIA. |  | 10"            |  |  | DATE FINISHED: | 04/01/2014            |
|        |      |       |      | WT.  |  |                |  |  | DRILLER:       | John Graglia          |
|        |      |       |      | FALL |  |                |  |  | GEOLOGIST:     | Andreas Papaneocleous |
|        |      |       |      |      |  |                |  |  | REVIEWED BY:   | Kevin Connare         |

| DEPTH FEET | STRATA | VISUAL IMPACTS | SAMPLE  |         |            | REC%<br>RQD% | COLOR | MATERIAL DESCRIPTION | PID | REMARKS |
|------------|--------|----------------|---------|---------|------------|--------------|-------|----------------------|-----|---------|
|            |        |                | "S" NO. | "N" NO. | BLOW COUNT |              |       |                      |     |         |

|     |  |  |   |  |  |     |       |                                                                   |      |                                                                   |
|-----|--|--|---|--|--|-----|-------|-------------------------------------------------------------------|------|-------------------------------------------------------------------|
| 0   |  |  |   |  |  |     |       |                                                                   |      |                                                                   |
| -5  |  |  | 1 |  |  | 100 | Brown | Fine to medium SAND and SILT, little gravel, moist (SM)           | 0.1  | No product impact                                                 |
|     |  |  |   |  |  |     |       | SILT, some fine gravel, trace fine to medium sand, moist          |      |                                                                   |
| -10 |  |  | 2 |  |  | 80  | Gray  | Fine to medium SAND and SILT, some gravel (SM)                    | 2.7  | Faint petroleum-like odor, no product impact                      |
| -15 |  |  | 3 |  |  | 100 |       | Fine to medium SAND and SILT (SM), moist                          |      | Metallic sheen, dark gray staining, burnt wood odor               |
|     |  |  |   |  |  |     |       | SILT, some gravel, trace fine to medium sand (ML)                 |      | Dark brown NAPL noted, coated (10 % saturation)                   |
| -20 |  |  | 4 |  |  | 82  |       | Fine to medium SAND and SILT, some gravel, moist to wet (SM)      | 21.8 | No product impact                                                 |
|     |  |  |   |  |  |     |       | SILT and GRAVEL, some fine to medium sand, trace mica flakes (MH) |      | Blebs, mod naphthalene-like odor, NAPL in sample (10% saturation) |
|     |  |  |   |  |  |     |       |                                                                   |      | No product impact                                                 |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

BORING NO. : NRW-6

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION                                  | PID  | REMARKS                                        |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|----------------------------------------------------------|------|------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                                                          |      |                                                |
| -25           |        |                   |            |            |               |      |       |                                                          | 5.9  | No product impact                              |
| -30           |        |                   | 5          |            |               | 93   |       | Fine to medium SAND and SILT, moist (SM)                 | 3.7  | Faint naphthalene-like odor, no product impact |
|               |        |                   |            |            |               |      |       | SILT and GRAVEL, some fine to medium sand (ML)           |      |                                                |
| -35           |        |                   |            |            |               |      | Brown | Fine to medium SAND, trace silt (SP)                     |      | Faint petroleum-like odor, no product impact   |
| -40           |        |                   | 6          |            |               | 80   | Gray  | Fine to medium SAND, some gravel, trace silt (SP), moist | 50.8 |                                                |
| -45           |        |                   |            |            |               |      |       |                                                          |      | Faint naphthalene-like odor, no product impact |
| -50           |        |                   | 7          |            |               | 100  |       | Fine to medium SAND, trace silt (SP), moist              | 50.1 |                                                |
| -55           |        |                   |            |            |               |      |       | SILT, some gravel, trace fine to medium sand (ML)        | 2.4  | No product impact                              |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION                     | PID | REMARKS           |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|---------------------------------------------|-----|-------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                                             |     |                   |
| -60           |        |                   | 8          |            |               | 85   | Brown | Fine to medium SAND, trace silt, moist (SP) | 2.6 | No product impact |
|               |        |                   |            |            |               |      |       | Fine to medium SAND, trace silt (SP), moist | 0.0 |                   |
| -65           |        |                   |            |            |               |      |       | CLAY, still, high plasticity (CH)           |     |                   |
|               |        |                   |            |            |               |      |       | Bottom of boring 65 ft bgs                  |     |                   |
| -70           |        |                   |            |            |               |      |       |                                             |     |                   |
| -75           |        |                   |            |            |               |      |       |                                             |     |                   |
| -80           |        |                   |            |            |               |      |       |                                             |     |                   |
| -85           |        |                   |            |            |               |      |       |                                             |     |                   |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

BORING NO. : NRW-7

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688923.48 EASTING: 641927.82

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 9.93

| DATE    | TIME | LEVEL | TYPE | TYPE |  | Sonic Drilling |  |  | DATE STARTED:  | 04/03/14              |
|---------|------|-------|------|------|--|----------------|--|--|----------------|-----------------------|
| 4/10/14 |      | 6.51  |      | DIA. |  | 10"            |  |  | DATE FINISHED: | 04/03/14              |
|         |      |       |      | WT.  |  |                |  |  | DRILLER:       | John Graglia          |
|         |      |       |      | FALL |  |                |  |  | GEOLOGIST:     | Andreas Papaneocleous |
|         |      |       |      |      |  |                |  |  | REVIEWED BY:   | Kevin Connare         |

| DEPTH FEET | STRATA | VISUAL IMPACTS | SAMPLE  |         |            | REC% | COLOR | MATERIAL DESCRIPTION | PID | REMARKS |
|------------|--------|----------------|---------|---------|------------|------|-------|----------------------|-----|---------|
|            |        |                | "S" NO. | "N" NO. | BLOW COUNT | RQD% |       |                      |     |         |

|     |  |  |   |  |  |     |             |                                                              |     |                                                            |
|-----|--|--|---|--|--|-----|-------------|--------------------------------------------------------------|-----|------------------------------------------------------------|
| 0   |  |  |   |  |  |     |             | Boring hand cleared to 5 ft bgs                              |     |                                                            |
| -5  |  |  | 1 |  |  | 65  | Gray        | Fine to medium SAND and SILT, some gravel, moist (SM)        | 0.0 | Light to mod coating, faint petroleum-like odor            |
|     |  |  |   |  |  |     |             | SILT, some fine to medium sand, fill (ML), burnt wood (FILL) |     |                                                            |
| -10 |  |  | 2 |  |  | 65  |             | SILT and GRAVEL, some fine to medium sand, wet (ML)          | 2.8 | Slight dark gray coating, faint naphthalene-like odor      |
|     |  |  |   |  |  |     |             | Fine to medium SAND and SILT, moist to wet (SM)              | 203 | Blebs, NAPL (20% saturation), strong naphthalene-like odor |
| -15 |  |  |   |  |  |     |             | SILT, Moist (ML)                                             | 1.8 | No odor, no product                                        |
| -20 |  |  | 3 |  |  | 100 | Brown       | Fine to medium SAND, trace silt (SP)                         | 1.5 | Faint naphthalene-like odor, no product impact             |
|     |  |  |   |  |  |     | Light Brown | SILT and GRAVEL, some clay, trace fine to medium sand (ML)   | 0.0 |                                                            |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

BORING NO. : NRW-7

| URS Corporation                                        |        |                   |            |            |               |      | TEST BORING LOG          |                                                            |      |                                                     |
|--------------------------------------------------------|--------|-------------------|------------|------------|---------------|------|--------------------------|------------------------------------------------------------|------|-----------------------------------------------------|
|                                                        |        |                   |            |            |               |      | BORING NO. : NRW-7       |                                                            |      |                                                     |
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |        |                   |            |            |               |      | SHEET: 2 OF 3            |                                                            |      |                                                     |
| CLIENT: National Grid                                  |        |                   |            |            |               |      | JOB NO. : 11176638.00001 |                                                            |      |                                                     |
| DEPTH<br>FEET                                          | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION                                    | PID  | REMARKS                                             |
|                                                        |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                                                            |      |                                                     |
| -25                                                    |        |                   |            |            |               |      |                          |                                                            |      |                                                     |
| -30                                                    |        |                   | 4          |            |               | 100  | Brown to Gray            | GRAVEL and SILT, some fine to medium sand, trace clay (GM) |      | No product impact                                   |
| -35                                                    |        |                   |            |            |               |      |                          |                                                            |      |                                                     |
| -40                                                    |        |                   | 5          |            |               | 72   | Brown                    | Fine to medium SAND, trace silt, moist to wet (SP)         | 39   | Blebs, light coating, strong naphthalene-like odor  |
| -45                                                    |        |                   |            |            |               |      |                          |                                                            | 90.1 | Strong naphthalene-like odor                        |
| -50                                                    |        |                   | 6          |            |               | 100  | Gray                     | Fine to medium SAND, trace silt, moist to wet (SP)         | 101  | Blebs, slight coating, strong naphthalene-like odor |
| -55                                                    |        |                   |            |            |               |      | Dark Gray                | SILT, some fine to medium sand (ML)                        |      | Saturation<br><br>Faint naphthalene-like odor       |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

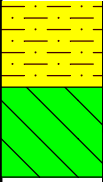
BORING NO. : NRW-7

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA                                                                            | VISUAL<br>IMPACTS                                                                 | SAMPLE     |            |               | REC% | COLOR           | MATERIAL<br>DESCRIPTION                     | PID | REMARKS              |
|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|------------|---------------|------|-----------------|---------------------------------------------|-----|----------------------|
|               |                                                                                   |                                                                                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                 |                                             |     |                      |
| -60           |  |  |            |            |               |      | Orange<br>Brown | Inorganic CLAY, high plasticity, stiff (CH) |     | No product<br>impact |
|               |                                                                                   |                                                                                   |            |            |               |      |                 | Boring completed at 60 ft bgs               |     |                      |
| -65           |                                                                                   |                                                                                   |            |            |               |      |                 |                                             |     |                      |
| -70           |                                                                                   |                                                                                   |            |            |               |      |                 |                                             |     |                      |
| -75           |                                                                                   |                                                                                   |            |            |               |      |                 |                                             |     |                      |
| -80           |                                                                                   |                                                                                   |            |            |               |      |                 |                                             |     |                      |
| -85           |                                                                                   |                                                                                   |            |            |               |      |                 |                                             |     |                      |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688908.66 EASTING: 641946.72

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.01

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 03/24/14

4/10/14 6.75 DIA.

10"

DATE FINISHED: 03/24/14

WT.

DRILLER: John Graglia

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

DEPTH  
FEET

STRATA

VISUAL  
IMPACTS

SAMPLE

"S"  
NO.

"N"  
NO.

BLOW  
COUNT

REC%

RQD%

COLOR

MATERIAL  
DESCRIPTION

PID

REMARKS

|     |  |  |   |  |  |    |       |                                                            |     |                                                                              |
|-----|--|--|---|--|--|----|-------|------------------------------------------------------------|-----|------------------------------------------------------------------------------|
| 0   |  |  |   |  |  |    |       | Boring hand cleared to 5 ft bgs                            |     |                                                                              |
| -5  |  |  | 1 |  |  | 80 | Brown | Fine to medium SAND and SILT, some brick fragments (fill)  | 140 | Blebs, light coating, staining, slight sheen, moderate naphthalene-like odor |
| -10 |  |  | 2 |  |  | 80 | Gray  | Fine to medium SAND and organic CLAY, shell fragments (OH) | 348 | Blebs, mod dark brown coating, slight sheen, strong naphthalene-like odor    |
| -15 |  |  | 3 |  |  | 80 | Brown | SILT, some fine to medium sand (ML)                        | 27  | Light brown coating, dark brown staining, strong naphthalene-like odor       |
|     |  |  |   |  |  |    | Gray  | Fine to medium SAND, trace silt (SP)                       |     |                                                                              |
|     |  |  |   |  |  |    | Brown | SILT (ML)                                                  |     |                                                                              |
| -20 |  |  | 4 |  |  | 72 | Gray  | SILT, little gravel, Moist (ML)                            | 7.8 | No product observed                                                          |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR        | MATERIAL<br>DESCRIPTION                                    | PID  | REMARKS                                                                                                                           |
|---------------|--------|-------------------|------------|------------|---------------|------|--------------|------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |              |                                                            |      |                                                                                                                                   |
| -25           |        |                   | 5          |            |               | 60   |              |                                                            | 275  | Light brown coating, slight naphthalene-like odor<br>Product observed on plastic sleeve and inside silty core (10" of 36" sample) |
| -30           |        |                   | 6          |            |               | 80   | Brown        | Fine to medium SAND, little gravel, trace silt (SP), Moist | 1276 | Strong naphthalene-like odor, light coating, staining                                                                             |
| -35           |        |                   | 7          |            |               | 80   |              |                                                            | 1155 |                                                                                                                                   |
| -40           |        |                   | 8          |            |               | 70   |              | Fine to medium SAND, trace silt (SP), Wet                  | 93.4 | No product impact                                                                                                                 |
| -45           |        |                   |            |            |               |      |              |                                                            |      |                                                                                                                                   |
| -50           |        |                   | 9          |            |               | 83   |              | Fine to medium SAND, some silt (SM), Moist                 | 10.8 | Blebs, light brown coating, strong naphthalene-like odor                                                                          |
| -55           |        |                   |            |            |               |      | Brown Orange | CLAY, high plasticity, stiff                               |      | No odor, no visual impact                                                                                                         |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION    | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|----------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                            |     |         |
| -60           |        |                   |            |            |               |      |       | Bottom of boring 60 ft bgs |     |         |
| -65           |        |                   |            |            |               |      |       |                            |     |         |
| -70           |        |                   |            |            |               |      |       |                            |     |         |
| -75           |        |                   |            |            |               |      |       |                            |     |         |
| -80           |        |                   |            |            |               |      |       |                            |     |         |
| -85           |        |                   |            |            |               |      |       |                            |     |         |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688892.07 EASTING: 641967.55

GROUNDWATER: 7.5' bgs

CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 10.19

| DATE | TIME | LEVEL | TYPE | TYPE |  | Sonic Drilling |  |  |
|------|------|-------|------|------|--|----------------|--|--|
| None |      | None  |      | DIA. |  | 10"            |  |  |
|      |      |       |      | WT.  |  |                |  |  |
|      |      |       |      | FALL |  |                |  |  |

DATE STARTED: 04/02/2014

DATE FINISHED: 04/02/2014

DRILLER: Craig

GEOLOGIST: M. Dascoli

REVIEWED BY: Kevin Connare

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|-------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                         |     |         |

|     |  |  |  |  |  |  |     |              |                                                                       |     |                                                                     |
|-----|--|--|--|--|--|--|-----|--------------|-----------------------------------------------------------------------|-----|---------------------------------------------------------------------|
| 0   |  |  |  |  |  |  |     |              | Handcleared to 5 ft bgs. Drilled to 7 ft bgs                          |     |                                                                     |
| -5  |  |  |  |  |  |  |     |              |                                                                       |     |                                                                     |
| -10 |  |  |  |  |  |  | 100 | Medium Brown | FILL, very fine sand and silt                                         | 319 | Dark brown NAPL, coated (25% saturation)                            |
|     |  |  |  |  |  |  |     |              | FILL, silt with few cardboard, loose                                  | 57  |                                                                     |
|     |  |  |  |  |  |  |     |              |                                                                       | 245 |                                                                     |
|     |  |  |  |  |  |  |     |              |                                                                       | 136 |                                                                     |
|     |  |  |  |  |  |  |     | Dark Gray    | SILT and very fine SAND (SM)                                          |     |                                                                     |
|     |  |  |  |  |  |  | 100 | Medium Brown | Very fine SAND, dense (SP)                                            | 125 | No contamination evident                                            |
|     |  |  |  |  |  |  |     | Dark Gray    | SILT and very fine SAND 13-14' with few white shell fragments         | 75  |                                                                     |
| -15 |  |  |  |  |  |  |     | Medium Gray  | SILT and very fine SAND, few clays, loose (SM)                        | 47  | Dark brown NAPL, coated (25% saturation), strong coal tar-like odor |
|     |  |  |  |  |  |  |     |              |                                                                       | 40  |                                                                     |
| -20 |  |  |  |  |  |  | 100 | Dark Gray    | Very fine SAND, few silt, loose, wet (SP)                             | 216 | Coated (10% saturation) Faint coal tar-like odor                    |
|     |  |  |  |  |  |  |     |              |                                                                       | 75  |                                                                     |
|     |  |  |  |  |  |  |     | Medium Brown | Silty CLAY, medium dense (ML)                                         | 45  |                                                                     |
|     |  |  |  |  |  |  |     |              |                                                                       | 23  |                                                                     |
|     |  |  |  |  |  |  | 100 |              | Clayey SILT, some fine to coarse gravel, few cobbles, very dense (ML) | 154 |                                                                     |
|     |  |  |  |  |  |  |     |              |                                                                       | 116 |                                                                     |
|     |  |  |  |  |  |  |     |              |                                                                       | 69  |                                                                     |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR                        | MATERIAL<br>DESCRIPTION                                                                                      | PID  | REMARKS                                  |
|---------------|--------|-------------------|------------|------------|---------------|------|------------------------------|--------------------------------------------------------------------------------------------------------------|------|------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                              |                                                                                                              |      |                                          |
| -25           |        |                   |            |            |               |      |                              |                                                                                                              | 194  |                                          |
|               |        |                   |            |            |               | 100  | Medium Gray                  | CLAY, some silt, some fine to coarse gravel, few cobbles, few coarse sand and clear mica, very dense (CL-ML) | 22   |                                          |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 30   |                                          |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 44   |                                          |
| -30           |        |                   |            |            |               |      |                              |                                                                                                              | 37   |                                          |
|               |        |                   | 3          |            |               | 100  | Medium Gray with Red Streaks |                                                                                                              | 24   |                                          |
|               |        |                   |            |            |               |      | Medium Gray                  |                                                                                                              | 18   |                                          |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 23   |                                          |
| -35           |        |                   |            |            |               |      |                              |                                                                                                              | 64   |                                          |
|               |        |                   |            |            |               | 100  |                              |                                                                                                              | 20   |                                          |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 143  |                                          |
| -40           |        |                   |            |            |               |      | Medium Brown                 | Very fine SAND, some clear mica, trace silt, moist (SP)                                                      | 325  | No odor                                  |
|               |        |                   | 4          |            |               |      |                              |                                                                                                              | 377  |                                          |
|               |        |                   |            |            |               | 100  |                              |                                                                                                              | 251  |                                          |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 1447 |                                          |
| -45           |        |                   |            |            |               |      |                              |                                                                                                              | 427  | Heavy dark brown NAPL coating            |
|               |        |                   |            |            |               |      |                              | Very fine SAND, few silt (SP)                                                                                | 513  | Dark brown NAPL, coated (75% saturation) |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 2869 | Coated (25-75% saturation)               |
|               |        |                   |            |            |               | 100  |                              |                                                                                                              | 2869 |                                          |
| -50           |        |                   |            |            |               |      | Medium Gray                  | CLAY, very dense (CL)                                                                                        | 23.5 | Saturation                               |
|               |        |                   |            |            |               |      |                              |                                                                                                              | 22.1 |                                          |
|               |        |                   | 5          |            |               |      | Medium Brown                 | Very fine SAND, trace silt, loose (SP)                                                                       | 0    | No odor                                  |
|               |        |                   |            |            |               | 100  |                              |                                                                                                              | 0    |                                          |
|               |        |                   |            |            |               |      | Red and Gray                 | CLAY, very dense (CL)                                                                                        | 0    |                                          |
| -55           |        |                   |            |            |               |      |                              |                                                                                                              |      |                                          |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

| URS Corporation                                        |        |                   |            |            |               |      | TEST BORING LOG          |                              |     |         |
|--------------------------------------------------------|--------|-------------------|------------|------------|---------------|------|--------------------------|------------------------------|-----|---------|
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |        |                   |            |            |               |      | BORING NO. : NRW-9       |                              |     |         |
|                                                        |        |                   |            |            |               |      | SHEET: 3 OF 3            |                              |     |         |
| CLIENT: National Grid                                  |        |                   |            |            |               |      | JOB NO. : 11176638.00001 |                              |     |         |
| DEPTH<br>FEET                                          | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION      | PID | REMARKS |
|                                                        |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                              |     |         |
| -60                                                    |        |                   |            |            |               |      |                          | Bottom of borehole 57 ft bgs |     |         |
| -65                                                    |        |                   |            |            |               |      |                          |                              |     |         |
| -70                                                    |        |                   |            |            |               |      |                          |                              |     |         |
| -75                                                    |        |                   |            |            |               |      |                          |                              |     |         |
| -80                                                    |        |                   |            |            |               |      |                          |                              |     |         |
| -85                                                    |        |                   |            |            |               |      |                          |                              |     |         |
| COMMENTS:<br>NAPL = Non-Aqueous Phase Liquid           |        |                   |            |            |               |      |                          |                              |     |         |
|                                                        |        |                   |            |            |               |      | BORING NO. : NRW-9       |                              |     |         |

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688873.34 EASTING: 641990.42

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.31

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 03/19/2014

4/9/14 6.32 DIA.

10"

DATE FINISHED: 03/19/2014

WT.

DRILLER: John Graglia

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|-------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                         |     |         |

|     |  |  |   |  |  |     |       |                                                   |      |                                                                                               |
|-----|--|--|---|--|--|-----|-------|---------------------------------------------------|------|-----------------------------------------------------------------------------------------------|
| 0   |  |  |   |  |  |     |       | Hand cleared to 5 ft bgs                          |      |                                                                                               |
| -5  |  |  | 1 |  |  | 60  | Brown | Fine to medium SAND and SILT (SM)                 | 10.9 | Top layer black soil saturation, blebs, mod naphthalene-like odor, saturation at bottom layer |
|     |  |  |   |  |  |     | Gray  | SILT, trace fine to very fine sand (ML)           |      |                                                                                               |
| -10 |  |  | 2 |  |  | 100 | Brown | Fine to medium SAND, little silt (SP)             | 11   | Coated (80-90% saturation), strong petroleum-like odor, sheen on top of sample                |
|     |  |  |   |  |  |     | Gray  | SILT, trace fine to medium sand                   |      |                                                                                               |
| -15 |  |  | 3 |  |  | 87  |       | Fine to medium SAND, trace silt (SP)              | 160  | Coating, strong petroleum-like odor, saturation                                               |
|     |  |  |   |  |  |     | Brown | SILT, some gravel, trace fine to medium sand (ML) |      | Strong naphthalene-like odor                                                                  |
| -20 |  |  | 4 |  |  | 60  |       | Fine to medium SAND and SILT (SM)                 | 346  | Blebs, staining, saturated, strong naphthalene-like odor                                      |
|     |  |  |   |  |  |     |       | GRAVE and SILT, dry                               | 1448 | Strong naphthalene-like odor                                                                  |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR       | MATERIAL<br>DESCRIPTION                                    | PID | REMARKS                                                 |
|---------------|--------|-------------------|------------|------------|---------------|------|-------------|------------------------------------------------------------|-----|---------------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |             |                                                            |     |                                                         |
| -25           |        |                   | 5          |            |               | 100  | Gray        | Inorganic SILT and GRAVEL, some fine to medium sand (ML)   | 133 | Strong naphthalene-like odor, product in plastic sleeve |
| -30           |        |                   | 6          |            |               | 100  |             | SILT and GRAVEL, some fine to medium sand, trace clay (ML) | 232 | Saturation, NAPL in core of silt                        |
| -35           |        |                   | 7          |            |               | 80   | Brown       | Fine to medium SAND, trace silt, Moist (SP)                | 9.5 | Faint naphthalene-like odor, no indication of product   |
| -40           |        |                   | 8          |            |               | 100  |             |                                                            | 9.4 | No indication of product                                |
| -45           |        |                   | 9          |            |               | 100  | Gray        | SILT, some fine to medium sand (ML)                        |     | No indication of product                                |
| -50           |        |                   | 10         |            |               | 60   | Gray        | Fine to medium SAND, trace silt (SP)                       | 1.2 | Faint naphthalene-like odor, no indication of product   |
| -55           |        |                   | 11         |            |               | 80   | Gray Orange | CLAY, stiff, high plasticity (CH)                          | 1.0 | No indication of product                                |
|               |        |                   |            |            |               |      |             |                                                            |     |                                                         |
|               |        |                   |            |            |               |      |             |                                                            |     |                                                         |
|               |        |                   |            |            |               |      |             |                                                            |     |                                                         |
|               |        |                   |            |            |               |      |             |                                                            |     |                                                         |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION    | PID | REMARKS |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|----------------------------|-----|---------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                            |     |         |
| -60           |        |                   |            |            |               |      |       | Bottom of boring 60 ft bgs |     |         |
| -65           |        |                   |            |            |               |      |       |                            |     |         |
| -70           |        |                   |            |            |               |      |       |                            |     |         |
| -75           |        |                   |            |            |               |      |       |                            |     |         |
| -80           |        |                   |            |            |               |      |       |                            |     |         |
| -85           |        |                   |            |            |               |      |       |                            |     |         |

COMMENTS: \_\_\_\_\_  
 NAPL = Non-Aqueous Phase Liquid  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING NO. : NRW-11

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688860.73 EASTING: 642006.30

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.42

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 04/03/14

4/8/14 7.24 DIA.

10"

DATE FINISHED: 04/07/14

WT.

DRILLER: John Graglia

FALL

GEOLOGIST: M. Dascoli/A. Papaneocleous

REVIEWED BY: Kevin Connare

DEPTH  
FEET

STRATA

VISUAL  
IMPACTS

SAMPLE

"S"  
NO.

"N"  
NO.

BLOW  
COUNT

REC%

RQD%

COLOR

MATERIAL  
DESCRIPTION

PID

REMARKS

0

-5

-10

-15

-20

Boring hand cleared to 5 ft bgs, drill to 7' bgs

Clayey SILT, fine to coarse gravel, moist

Very fine SAND and SILT layer

Clayey SILT, fine to coarse gravel, moist

SILT and SAND, dense

Very fine SAND, some silt, some fine to medium sand at 17' bgs

SILT, some very fine sand with coarse and fine gravel

Silty CLAY, some coarse sand, some fine to coarse gravel

Coated (25% saturation), dark Brown NAPL, coal tar-like odor

No free product

Coated (50% saturation), free product floating on water, dark brown NAPL

No free product

Coated (25% saturation), dark brown NAPL free product

Coated (75% saturation), dark brown NAPL, staining

Strong coal tar-like odor

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

Boring started on 4/3/14, rig down, boring finished on 4/7/14

BORING NO. : NRW-11

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR        | MATERIAL<br>DESCRIPTION                                    | PID  | REMARKS                                           |
|---------------|--------|-------------------|------------|------------|---------------|------|--------------|------------------------------------------------------------|------|---------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |              |                                                            |      |                                                   |
| -25           |        |                   |            |            |               |      |              |                                                            | 92   |                                                   |
|               |        |                   |            |            |               |      |              |                                                            | 144  |                                                   |
|               |        |                   | 3          |            |               | 100  |              | Clayey SILT, some fine to coarse gravel, dense             | 0.0  | No odor, no product                               |
|               |        |                   |            |            |               |      |              |                                                            | 70.5 |                                                   |
|               |        |                   |            |            |               |      | Dark gray    |                                                            | 81.6 |                                                   |
| -30           |        |                   |            |            |               |      |              |                                                            | 88.1 |                                                   |
|               |        |                   |            |            |               |      |              |                                                            | 11.7 |                                                   |
|               |        |                   |            |            |               |      |              |                                                            | 23.2 |                                                   |
|               |        |                   |            |            |               |      |              |                                                            | 31.2 |                                                   |
|               |        |                   |            |            |               |      |              |                                                            | 22.5 |                                                   |
| -35           |        |                   |            |            |               |      |              |                                                            | 12.8 |                                                   |
|               |        |                   | 4          |            |               | 100  | Gray         | SILT and GRAVEL, some fine to medium sand (ML)             | 14.3 | Moderate naphthalene-like odor, no product impact |
| -40           |        |                   |            |            |               |      |              |                                                            |      | Faint naphthalene-like odor, no product impact    |
|               |        |                   |            |            |               |      |              |                                                            |      |                                                   |
|               |        |                   | 5          |            |               | 100  |              | SILT, some fine to medium sand, little to some gravel (ML) |      | No product, no odor                               |
|               |        |                   |            |            |               |      | Brown        | Fine to medium SAND, some silt, moist (SM)                 |      |                                                   |
| -50           |        |                   |            |            |               |      | Orange Brown | CLAY, stiff, high plasticity, moist (CH)                   |      |                                                   |
|               |        |                   |            |            |               |      |              |                                                            |      |                                                   |
| -55           |        |                   |            |            |               |      |              |                                                            |      |                                                   |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

Boring started on 4/3/14, rig down, boring finished on 4/7/14

| URS Corporation                                        |        |                   |            |            |               |      | TEST BORING LOG          |                         |     |         |  |  |
|--------------------------------------------------------|--------|-------------------|------------|------------|---------------|------|--------------------------|-------------------------|-----|---------|--|--|
|                                                        |        |                   |            |            |               |      | BORING NO. : NRW-11      |                         |     |         |  |  |
| PROJECT/PROJECT LOCATION: National Grid - Williamsburg |        |                   |            |            |               |      | SHEET: 3 OF 3            |                         |     |         |  |  |
| CLIENT: National Grid                                  |        |                   |            |            |               |      | JOB NO. : 11176638.00001 |                         |     |         |  |  |
| DEPTH<br>FEET                                          | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR                    | MATERIAL<br>DESCRIPTION | PID | REMARKS |  |  |
|                                                        |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                          |                         |     |         |  |  |
| -59                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -60                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -65                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -70                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -75                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -80                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| -85                                                    |        |                   |            |            |               |      |                          |                         |     |         |  |  |
| Bottom of boring 57 ft bgs                             |        |                   |            |            |               |      |                          |                         |     |         |  |  |

COMMENTS:

NAPL = Non-Aqueous Phase Liquid

Boring started on 4/3/14, rig down, boring finished on 4/7/14

BORING NO. : NRW-11

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688839.86 EASTING: 642030.80

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.69

DATE 4/8/14 TIME LEVEL 4.80 TYPE DIA. WT. FALL

Sonic Drilling 10"

DATE STARTED: 03/26/14

DATE FINISHED: 03/26/14

DRILLER: John Graglia

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

| DEPTH FEET | STRATA | VISUAL IMPACTS | SAMPLE  |         |            | REC% | COLOR | MATERIAL DESCRIPTION | PID | REMARKS |
|------------|--------|----------------|---------|---------|------------|------|-------|----------------------|-----|---------|
|            |        |                | "S" NO. | "N" NO. | BLOW COUNT | RQD% |       |                      |     |         |

|     |  |  |   |  |  |     |             |                                                      |      |                                                                        |
|-----|--|--|---|--|--|-----|-------------|------------------------------------------------------|------|------------------------------------------------------------------------|
| 0   |  |  |   |  |  |     |             | Boring has hand cleared to 5 ft bgs                  |      |                                                                        |
| -5  |  |  | 1 |  |  | 100 | Brown       | Fine to medium SAND and SILT, brick fragments (FILL) | 34.7 | Moderate dark gray coating, light staining, strong petroleum-like odor |
| -10 |  |  | 2 |  |  | 0   | Light Brown | SILT, some fine sand (ML)                            | 14.5 | No product, no odor                                                    |
| -20 |  |  | 3 |  |  | 38  | Brown       | Fine to medium SAND, trace silt, little gravel (SP)  | 2709 | Saturation, coal tar-like odor                                         |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION                                                                                                                                                       | PID  | REMARKS                                                                  |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                                                                                                                                                                               |      |                                                                          |
| -25           |        |                   |            |            |               |      |       |                                                                                                                                                                               |      |                                                                          |
| -30           |        |                   | 4          |            |               | 65   | Gray  | SILT, some fine to medium sand, little gravel (ML)                                                                                                                            | 30.6 | Product on top of sample, faint naphthalene-like odor, no product impact |
| -35           |        |                   | 5          |            |               | 100  |       | SILT, some gravel, trace fine to medium sand (ML)                                                                                                                             | 30.4 | Faint naphthalene-like odor                                              |
| -40           |        |                   | 6          |            |               | 87   |       | <div>Fine to medium SAND, trace silt (SP)</div> <div>SILT, some gravel, trace fine to medium sand (ML)</div> <div>SILT and GRAVEL, some fine to medium sand, trace clay</div> | 40   | Saturation, strong naphthalene-like odor                                 |
| -45           |        |                   |            |            |               |      |       |                                                                                                                                                                               | 1395 | Light coating, mod naphthalene-like odor                                 |
|               |        |                   |            |            |               |      |       |                                                                                                                                                                               | 105  | Faint naphthalene-like odor, no product impact                           |
|               |        |                   |            |            |               |      |       |                                                                                                                                                                               | 13.6 |                                                                          |
|               |        |                   |            |            |               |      |       |                                                                                                                                                                               | 5.1  |                                                                          |
|               |        |                   |            |            |               |      |       |                                                                                                                                                                               | 2.7  |                                                                          |
|               |        |                   |            |            |               |      | Brown | Fine to medium SAND, trace silt, wet (SP)                                                                                                                                     |      | Faint petroleum-like odor, no product impact                             |
| -50           |        |                   | 7          |            |               | 70   | Gray  | Silt, trace fine to medium sand, moist (ML)                                                                                                                                   |      |                                                                          |
|               |        |                   |            |            |               |      |       | Fine to medium SAND, little to trace silt (SP)                                                                                                                                | 4.7  | No odor, no product impact                                               |
| -55           |        |                   |            |            |               |      |       | CLAY, stiff, high plasticity (CH)                                                                                                                                             |      |                                                                          |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR | MATERIAL<br>DESCRIPTION    | PID | REMARKS                    |
|---------------|--------|-------------------|------------|------------|---------------|------|-------|----------------------------|-----|----------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |       |                            |     |                            |
| -60           |        |                   |            |            |               |      |       | Bottom of boring 60 ft bgs |     | No odor, no product impact |
| -65           |        |                   |            |            |               |      |       |                            |     |                            |
| -70           |        |                   |            |            |               |      |       |                            |     |                            |
| -75           |        |                   |            |            |               |      |       |                            |     |                            |
| -80           |        |                   |            |            |               |      |       |                            |     |                            |
| -85           |        |                   |            |            |               |      |       |                            |     |                            |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BORING NO. : NRW-13

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 1 OF 3

CLIENT: National Grid

JOB NO. : 11176638

BORING CONTRACTOR: Cascade Drilling

NORTHING: 688824.43 EASTING: 642049.92

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 10.89

DATE TIME LEVEL TYPE TYPE

Sonic Drilling

DATE STARTED: 03/28/14

4/8/14 4.49 DIA.

10"

DATE FINISHED: 03/28/14

WT.

DRILLER: John Garglia

FALL

GEOLOGIST: Andreas Papaneocleous

REVIEWED BY: Kevin Connare

DEPTH  
FEET

STRATA

VISUAL  
IMPACTS

SAMPLE

"S"  
NO.

"N"  
NO.

BLOW  
COUNT

REC%

RQD%

COLOR

MATERIAL  
DESCRIPTION

PID

REMARKS

0

Boring was hand cleared to 5 ft bgs

-5

1

73

Brown

Fine to medium SAND and SILT, some gravel (SM)

3.1

Light dark gray coating, light staining, silt sheen, mod petroleum-like odor

-10

2

100

Gray

17.3

Heavy coating, heavy staining, sheen, strong petroleum-like odor

-15

SILT, low plasticity, some fine to medium sand, little gravel (ML)

20.5

Slight coating, slight staining, faint naphthalene-like odor

-20

3

100

Brown

51.2

Silt coating, silt staining, strong naphthalene-like odor

COMMENTS:

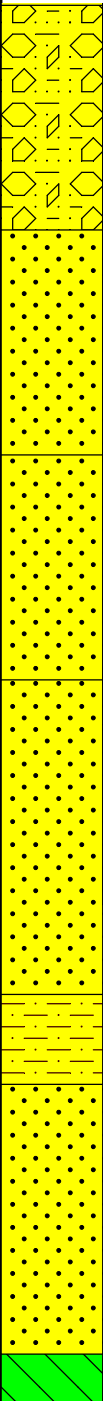
BORING NO. : NRW-13

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 2 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA                                                                             | VISUAL<br>IMPACTS                                                                   | SAMPLE     |            |               | REC% | COLOR          | MATERIAL<br>DESCRIPTION                                        | PID  | REMARKS                                                    |
|---------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------------|---------------|------|----------------|----------------------------------------------------------------|------|------------------------------------------------------------|
|               |                                                                                    |                                                                                     | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |                |                                                                |      |                                                            |
| -25           |  |    | 4          |            |               | 100  | Gray           | SILT and GRAVEL, some fine to medium sand                      | 91.0 | Mod staining, strong naphthalene-like odor                 |
|               |                                                                                    |                                                                                     |            |            |               |      | Orange         |                                                                |      |                                                            |
| -30           |                                                                                    |    | 5          |            |               | 88   | Gray           | Fine to medium SAND, trace silt, Moist to wet (SP)             | 156  | Sheen                                                      |
|               |                                                                                    |                                                                                     |            |            |               |      |                |                                                                |      |                                                            |
| -35           |                                                                                    |                                                                                     | 6          |            |               | 100  |                | Fine to medium SAND, trace silt, trace mica flakes, moist (SP) | 177  | Blebs, light coating, strong naphthalene-like odor         |
|               |                                                                                    |                                                                                     |            |            |               |      |                |                                                                |      | Moderate coating, staining, strong naphthalene-like odor   |
| -40           |                                                                                    |   | 7          |            |               | 90   |                | Fine to medium SAND, trace silt, moist (SP)                    | 17.4 | Blebs                                                      |
|               |                                                                                    |                                                                                     |            |            |               |      |                |                                                                |      | Slight staining, slight sheen, faint naphthalene-like odor |
| -45           |                                                                                    |  | 8          |            |               | 100  |                |                                                                |      | No product impact                                          |
|               |                                                                                    |                                                                                     |            |            |               |      | Brown          | SILT, low plasticity, little fine sand (ML)                    |      |                                                            |
| -50           |                                                                                    |                                                                                     | 9          |            |               | 100  | Gray           | Fine to medium SAND, trace silt (SP)                           | 40.1 | No odor, no product impact                                 |
|               |                                                                                    |                                                                                     |            |            |               |      |                |                                                                |      |                                                            |
| -55           |                                                                                    |  |            |            |               |      | Light Brown to | Inorganic CLAY, stiff, high plasticity (CH)                    | 3.4  |                                                            |

COMMENTS:

PROJECT/PROJECT LOCATION: National Grid - Williamsburg

SHEET: 3 OF 3

CLIENT: National Grid

JOB NO. : 11176638.00001

| DEPTH<br>FEET | STRATA | VISUAL<br>IMPACTS | SAMPLE     |            |               | REC% | COLOR  | MATERIAL<br>DESCRIPTION    | PID | REMARKS                    |
|---------------|--------|-------------------|------------|------------|---------------|------|--------|----------------------------|-----|----------------------------|
|               |        |                   | "S"<br>NO. | "N"<br>NO. | BLOW<br>COUNT | RQD% |        |                            |     |                            |
| -60           |        |                   |            |            |               |      | Orange |                            |     | No odor, no product impact |
| -65           |        |                   |            |            |               |      |        | Bottom of boring 60 ft bgs |     |                            |
| -70           |        |                   |            |            |               |      |        |                            |     |                            |
| -75           |        |                   |            |            |               |      |        |                            |     |                            |
| -80           |        |                   |            |            |               |      |        |                            |     |                            |
| -85           |        |                   |            |            |               |      |        |                            |     |                            |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

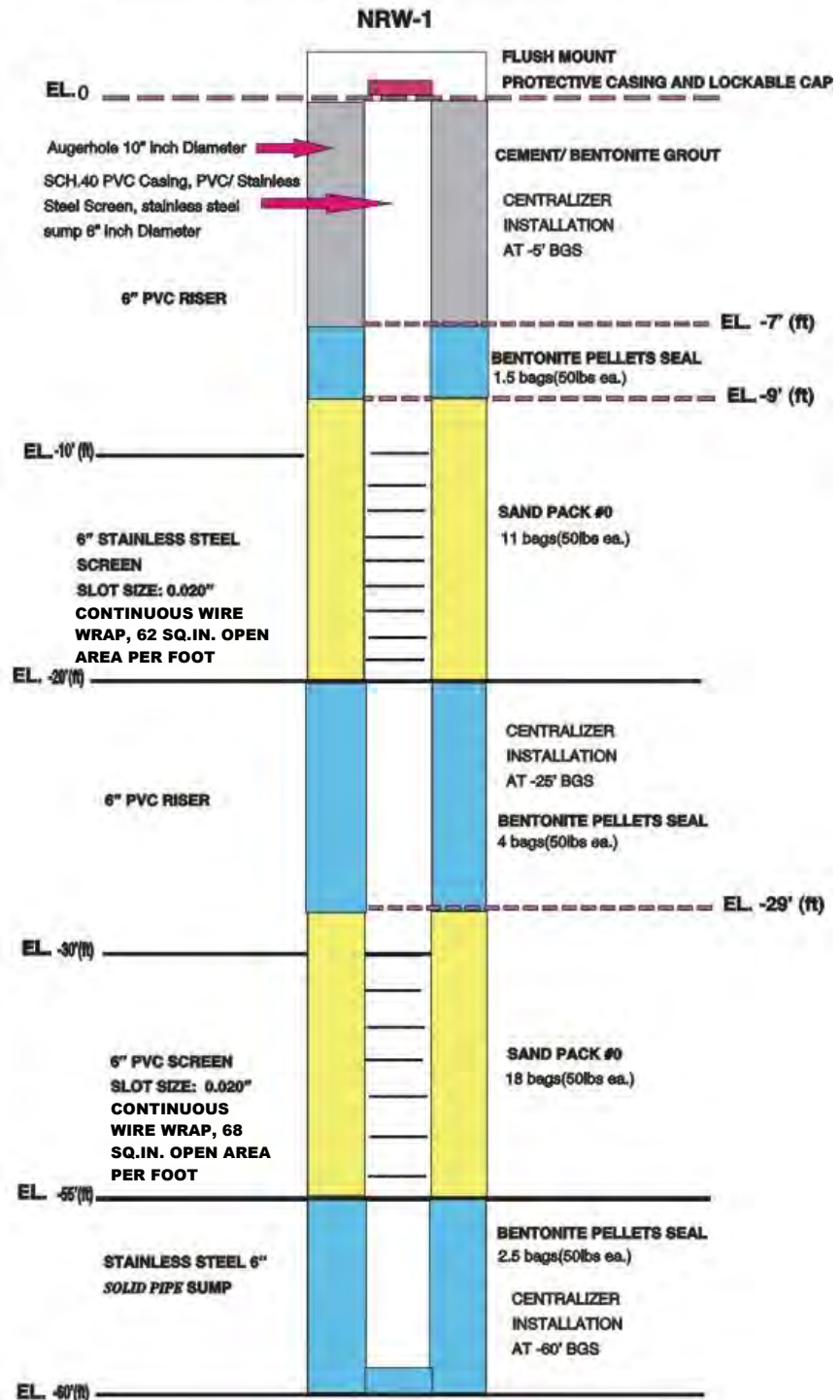
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-19-2014

## Recovery Well Construction Details



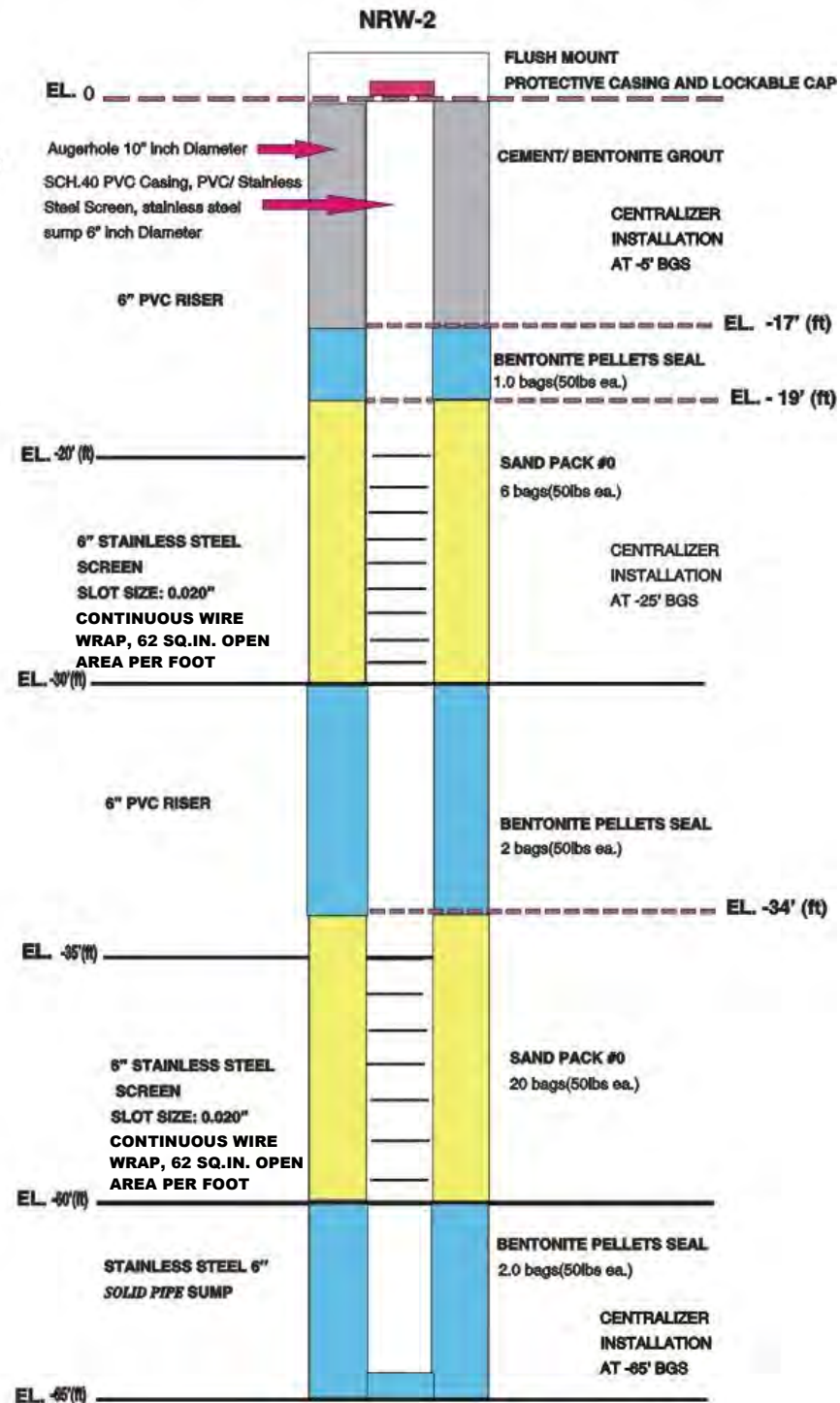
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-17-2014

### Recovery Well Construction Details



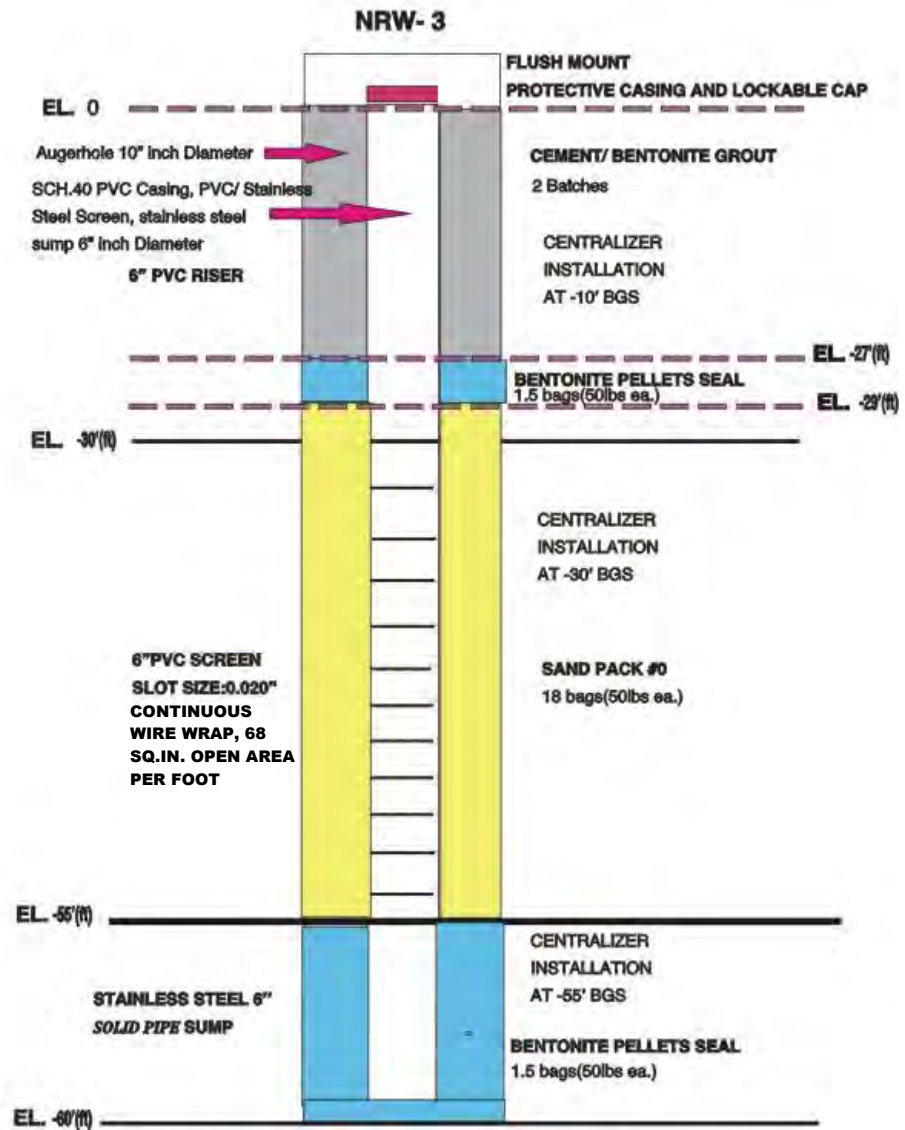
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## DRILLING SUMMARY

GEOLOGIST: MEGAN DASCOLI  
DRILLING COMPANY: CASCADE  
DRILLER: CRAIG  
DRILLING RIG TYPE: T600  
DATE: 09-26-2014

## Recovery Well Construction Details



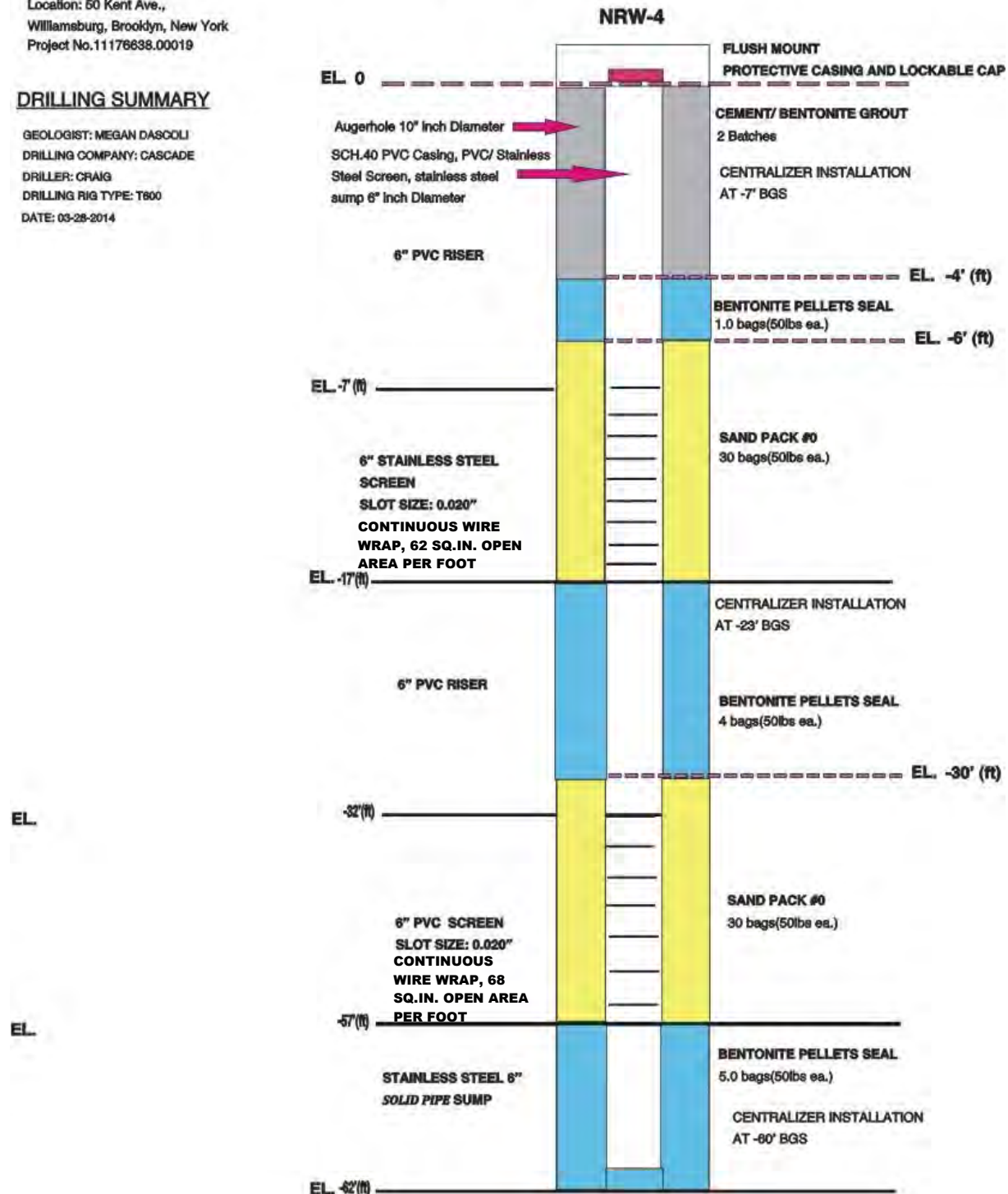
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176838.00019

### DRILLING SUMMARY

GEOLOGIST: MEGAN DASCOLI  
DRILLING COMPANY: CASCADE  
DRILLER: CRAIG  
DRILLING RIG TYPE: T800  
DATE: 03-28-2014

### Recovery Well Construction Details



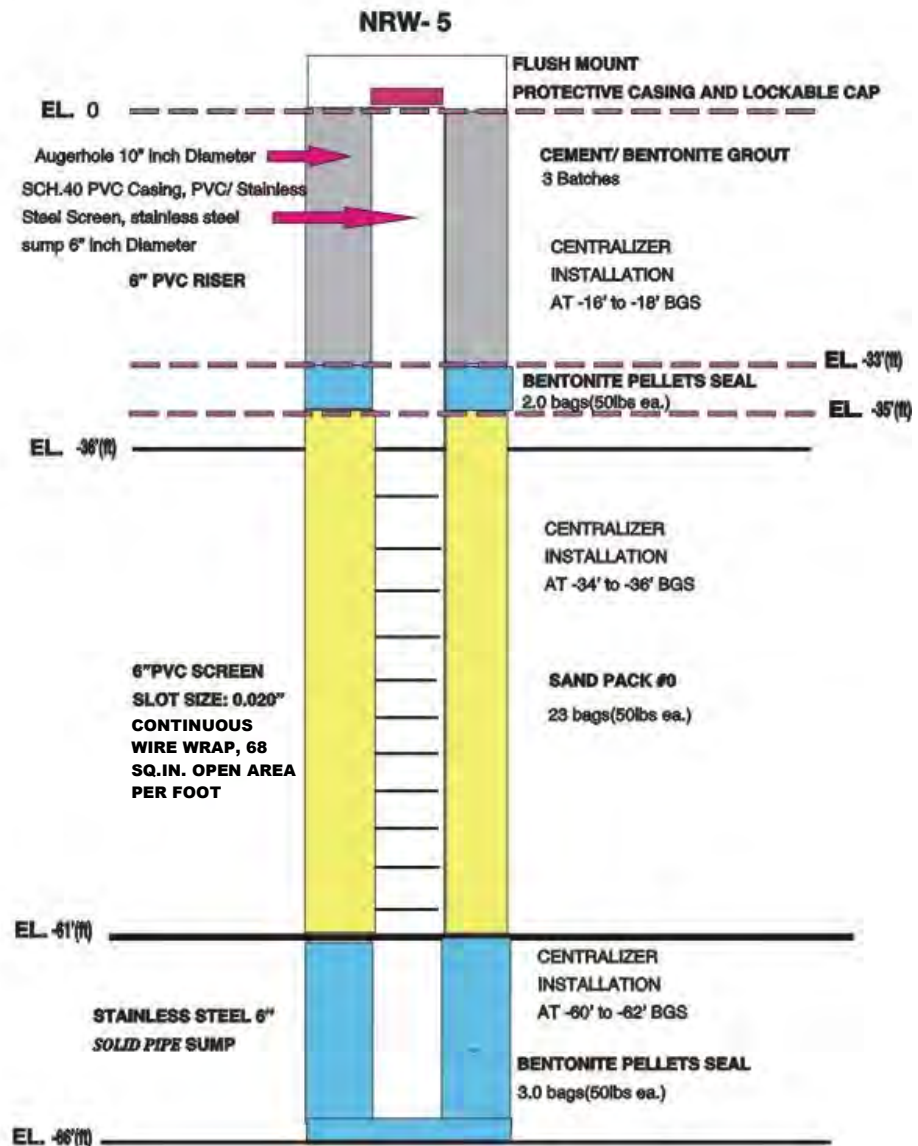
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## Recovery Well Construction Details

### DRILLING SUMMARY

GEOLOGIST: MEGAN DASCOLI  
DRILLING COMPANY: CASCADE  
DRILLER: CRAIG  
DRILLING RIG TYPE: T800  
DATE: 04-01-2014



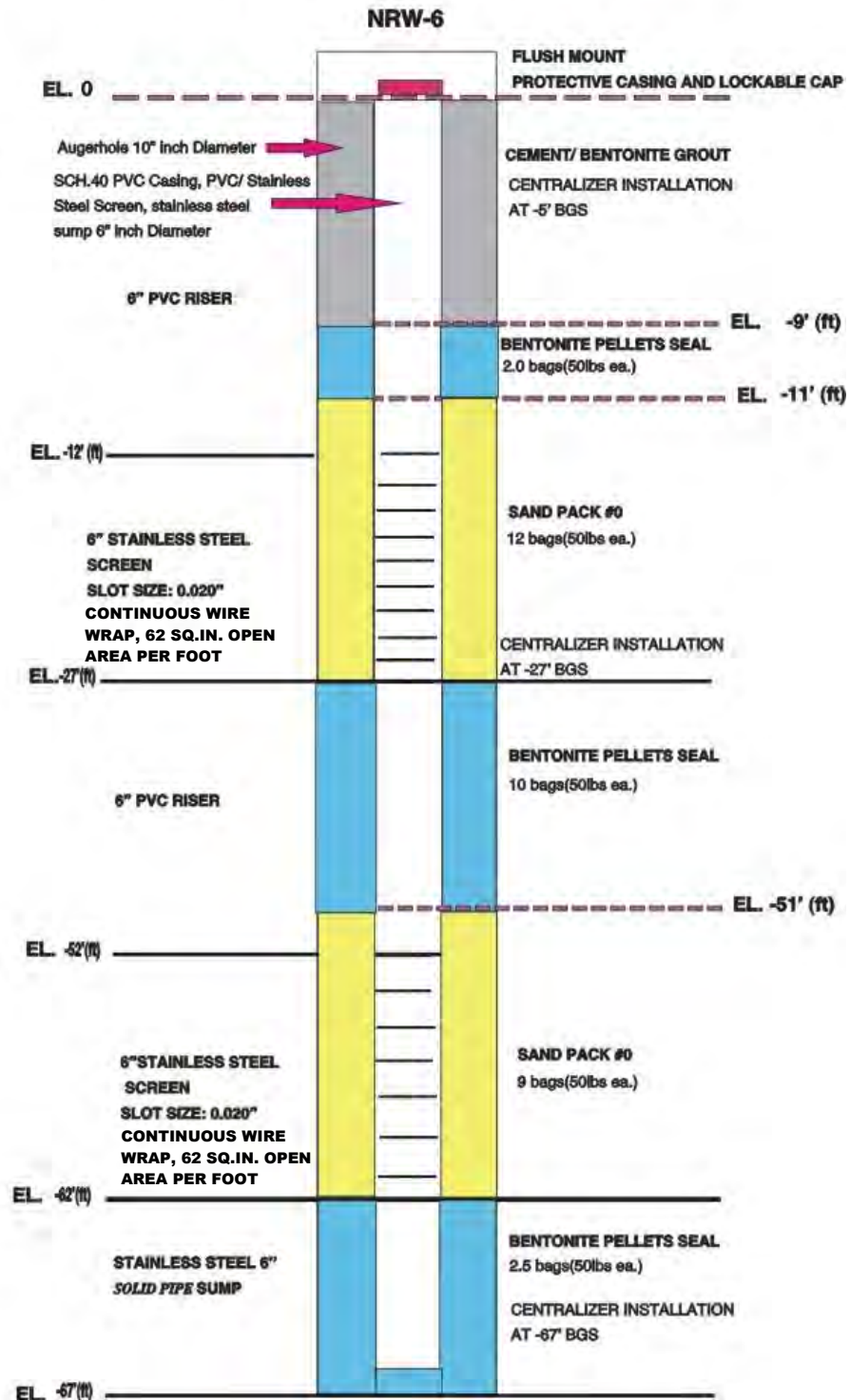
### URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No. 11176638.00019

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 04-02-2014

### Recovery Well Construction Details



## URS Corporation

Client: National Grid

Location: 50 Kent Ave.,

Williamsburg, Brooklyn, New York

Project No.11176638.00019

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS

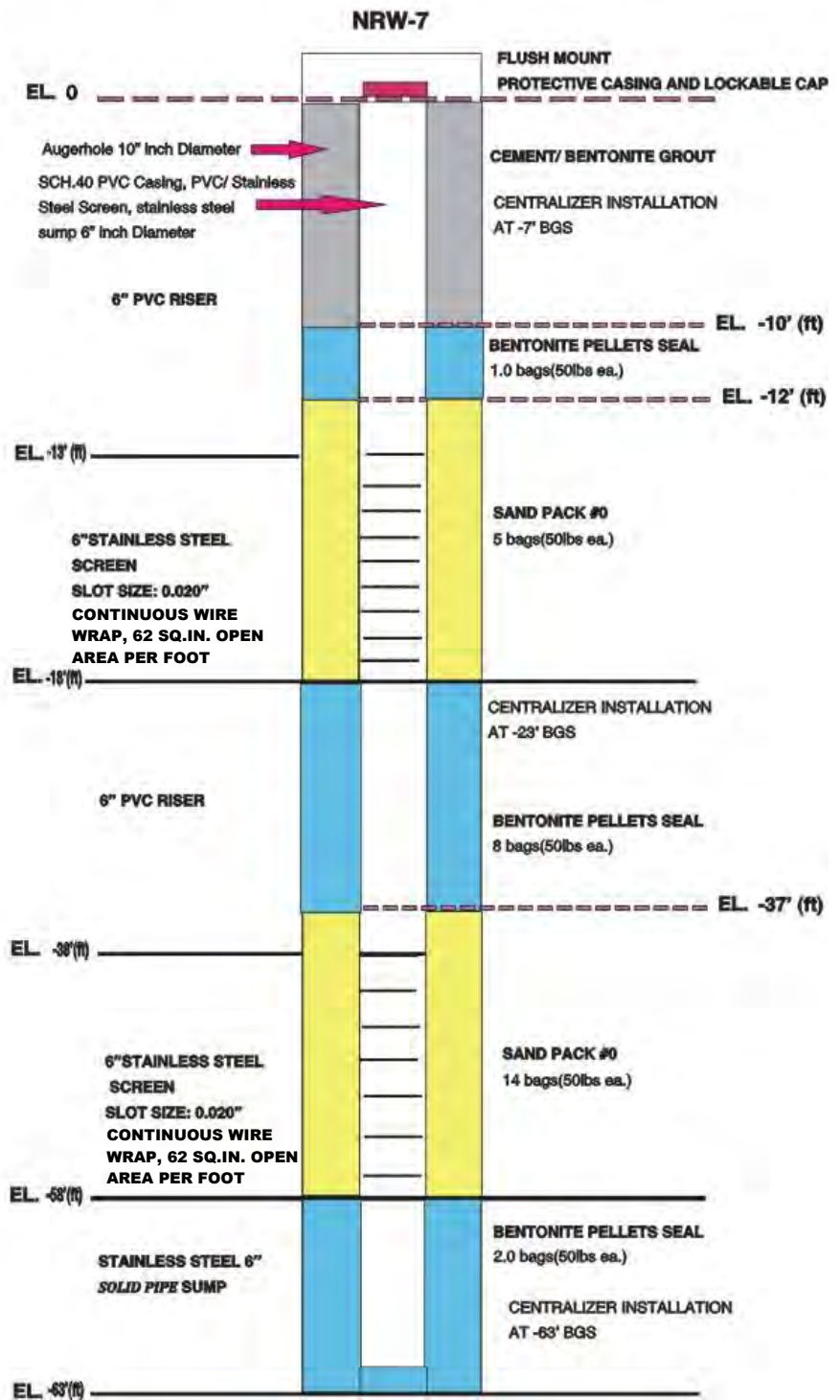
DRILLING COMPANY: CASCADE

DRILLER: JOHN GRAGLIA

DRILLING RIG TYPE: SONIC

DATE: 04-03-2014

### Recovery Well Construction Details



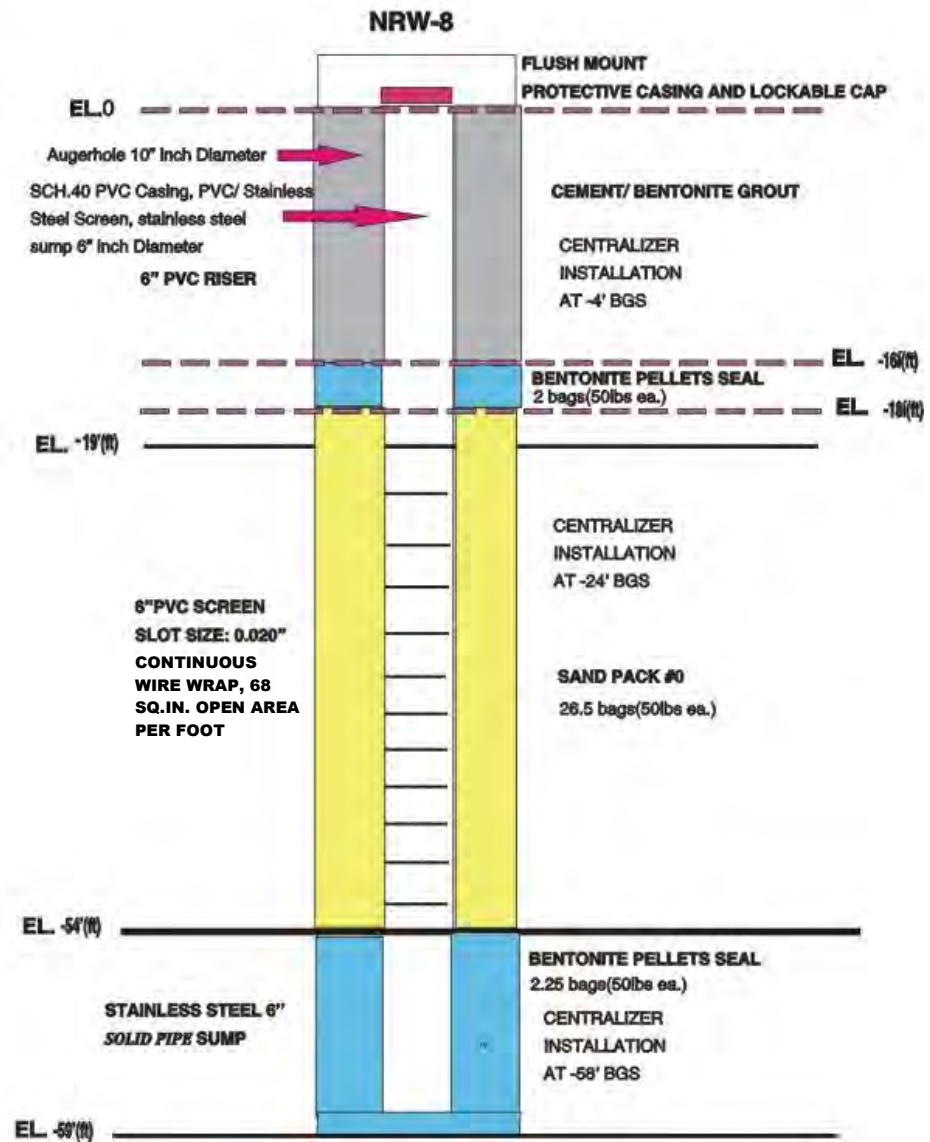
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## Recovery Well Construction Details

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-25-2014



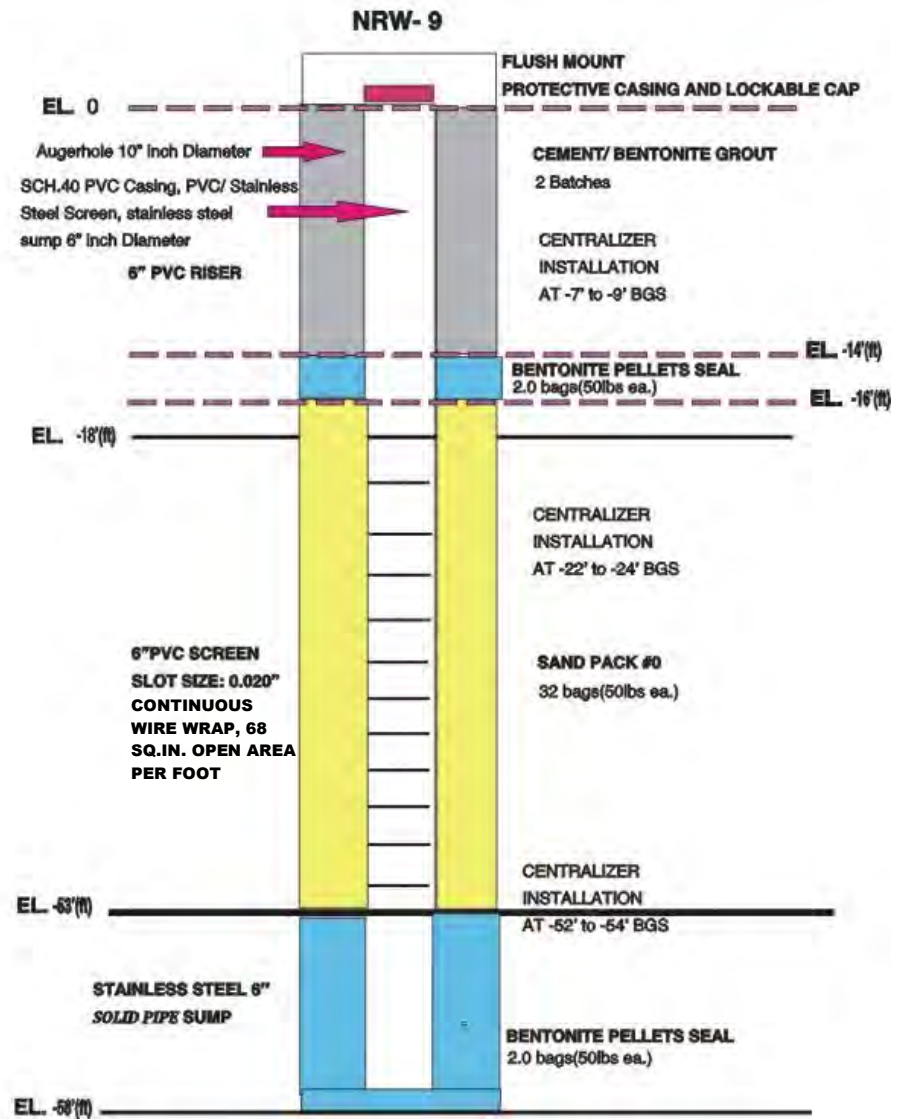
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No. 11176638.00019

## DRILLING SUMMARY

GEOLOGIST: MEGAN DASCOLI  
DRILLING COMPANY: CASCADE  
DRILLER: CRAIG  
DRILLING RIG TYPE: T800  
DATE: 04-08-2014

## Recovery Well Construction Details



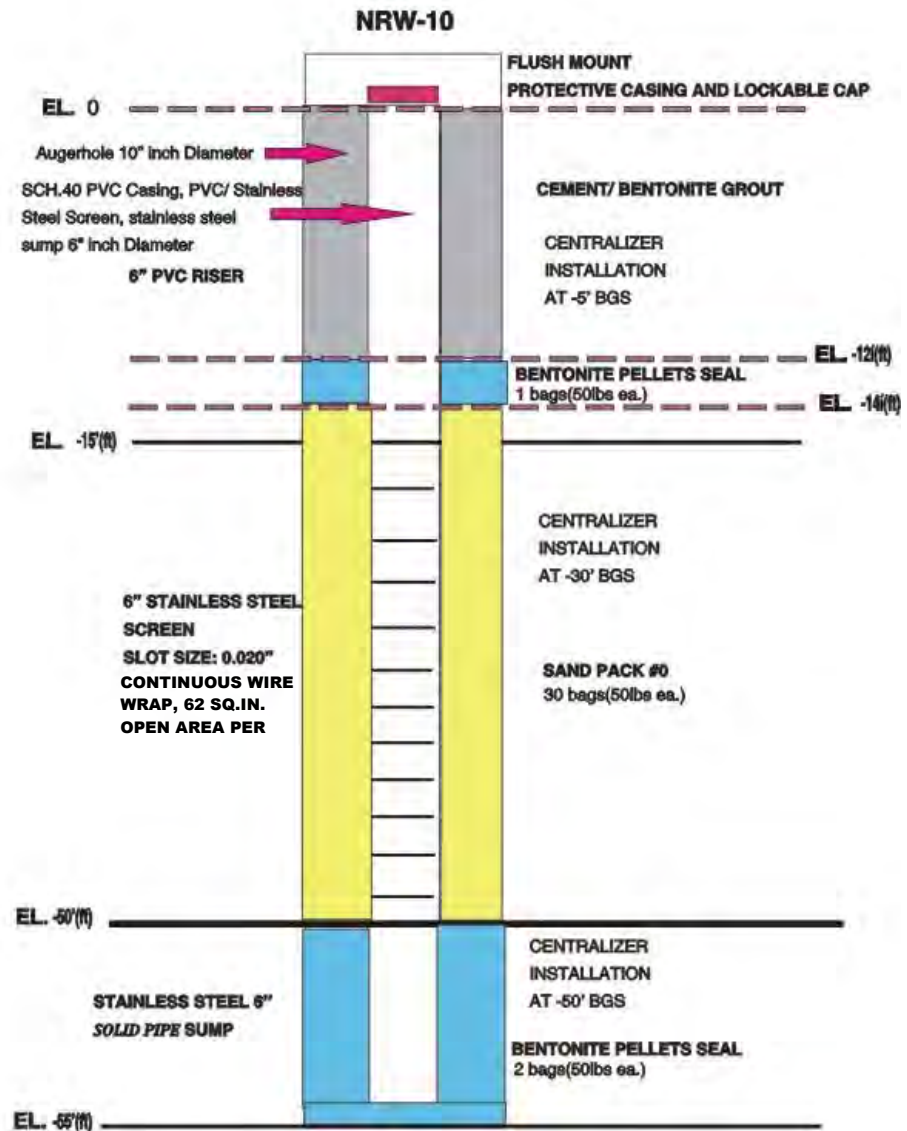
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## Recovery Well Construction Details

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-20-2014



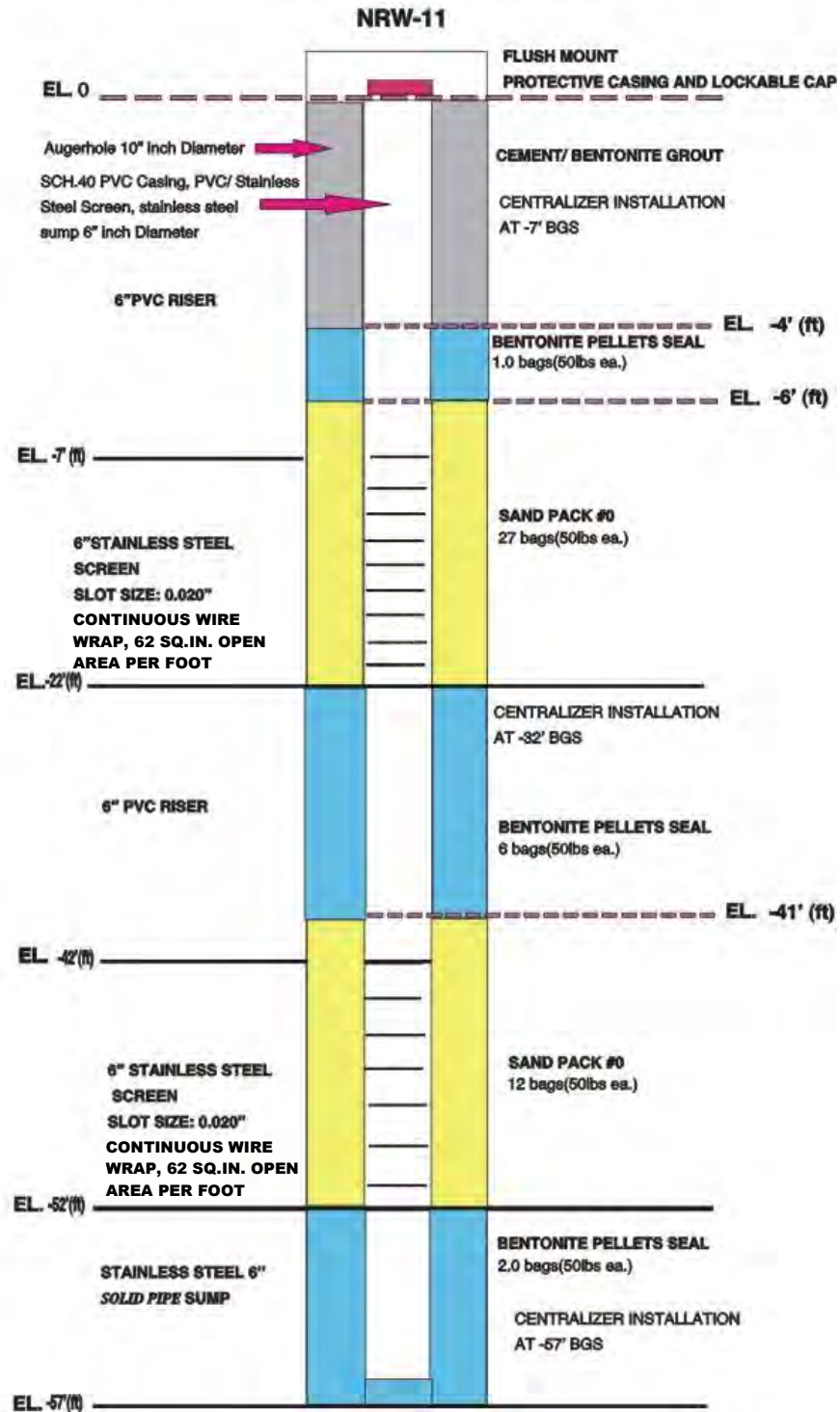
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11178638.00019

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 04-07-2014

### Recovery Well Construction Details



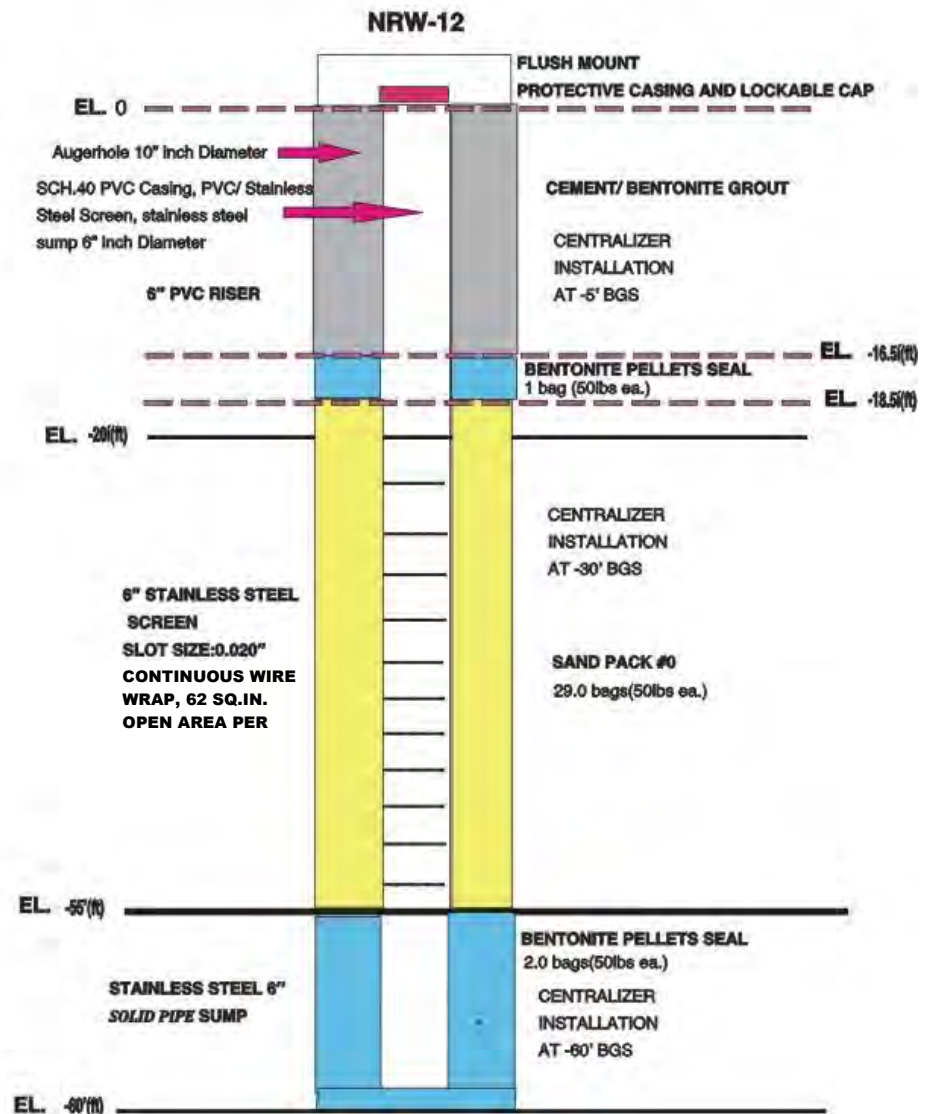
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-27-2014

### Recovery Well Construction Details



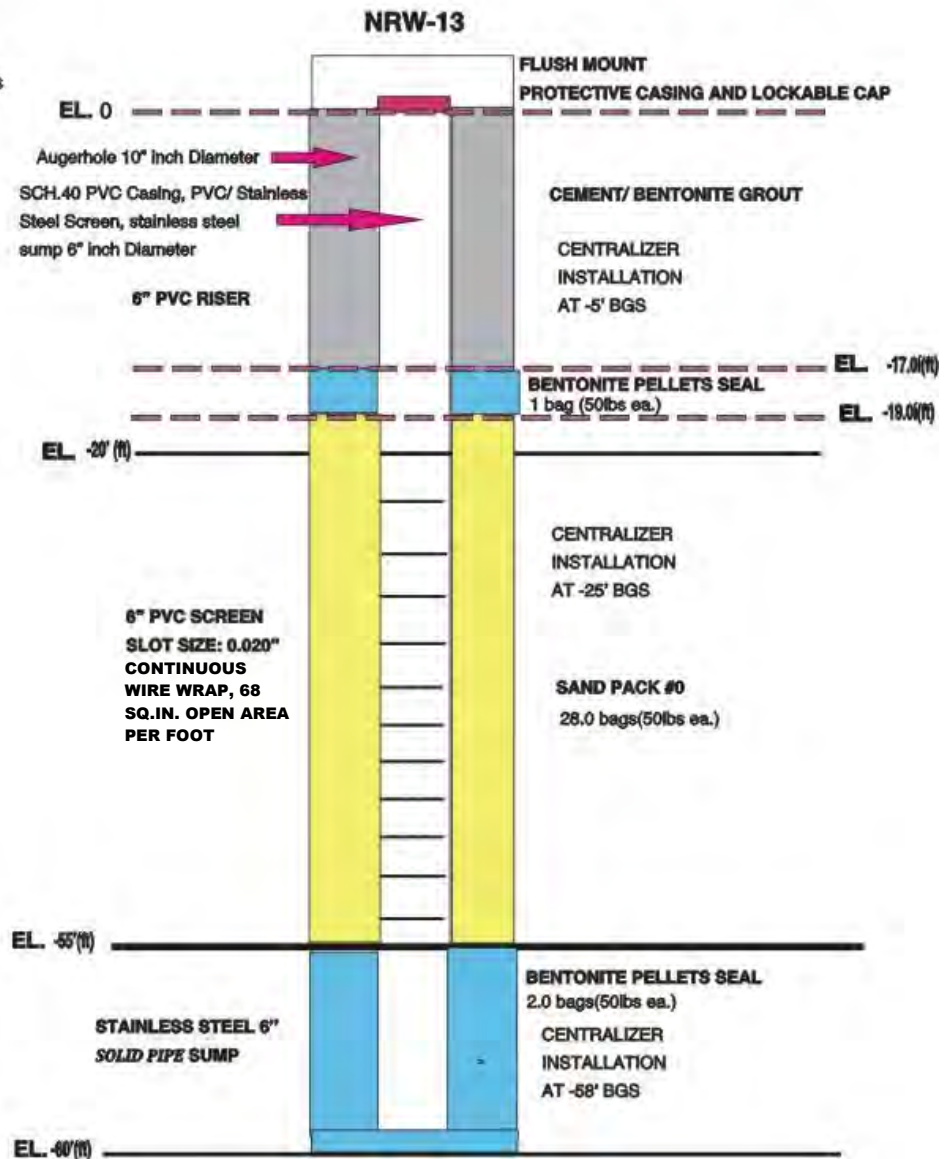
## URS Corporation

Client: National Grid  
Location: 50 Kent Ave.,  
Williamsburg, Brooklyn, New York  
Project No.11176638.00019

## Recovery Well Construction Details

### DRILLING SUMMARY

GEOLOGIST: ANDREAS PAPANEOCLEOUS  
DRILLING COMPANY: CASCADE  
DRILLER: JOHN GRAGLIA  
DRILLING RIG TYPE: SONIC  
DATE: 03-28-2014



Well Development Data /Sample Descriptions

| Well # | Date     | Time  | Water surged (gallons) | CAMP PID (ppm) | DTW (ft) | DTB (ft) | Turbidity(NTU) | Notes                                                                                                                                         |
|--------|----------|-------|------------------------|----------------|----------|----------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NRW-1  | 4/1/2014 |       |                        |                | 5.63     | 61.1     |                | Anticipated Volume is 416 Gallons                                                                                                             |
|        |          | 15:55 | 250                    | 0.2            |          |          | ~100 - 200     | Slightly cloudy, no measurable product                                                                                                        |
|        | 4/2/2014 | 10:15 | 335                    | 0.1            |          |          | 46.5           | Slightly cloudy, no measurable product                                                                                                        |
|        |          | 10:50 | 460                    | 0.1            |          |          | 45             | No measurable product in development                                                                                                          |
|        |          | 11:20 | 500                    |                |          |          | 45             | No measurable product in development                                                                                                          |
|        |          |       |                        |                |          |          |                | Development is completed at 500 gallons                                                                                                       |
| NRW-2  | 4/1/2014 |       |                        |                | 5.51     | 65.5     |                | Anticipated Volume is 450 Gallons                                                                                                             |
|        | 4/1/2014 | 12:43 | 235                    | 0.1            |          |          | >100           | Measurable product in development                                                                                                             |
|        |          |       |                        |                |          |          |                | Development is completed at 235 gallons                                                                                                       |
| NRW-3  | 4/2/2014 | 12:09 |                        |                | 7.5      | 59.9     |                | Anticipated Volume is 393 Gallons                                                                                                             |
|        | 4/2/2014 | 13:38 | 75                     | 0.2            |          |          | >1000          | Water appears in silty red color, sheen noted, no product noted, faint Naphthalene-like odor.                                                 |
|        |          | 14:03 | 150                    | 0.1            |          |          |                | Water appears in silty red color, sheen noted, no product noted, faint Naphthalene-like odor.                                                 |
|        |          | 14:20 | 200                    | 0.1            |          |          |                | Water appears in silty red color, sheen noted, no product noted, faint Naphthalene-like odor.                                                 |
|        |          | 14:38 | 250                    | 0.1            |          |          |                | Water appears in silty red color, sheen noted, no product noted, faint Naphthalene-like odor.                                                 |
|        |          | 16:00 | 425                    | 0.1            |          |          |                | Water appears in silty red color, sheen noted, no product noted, faint Naphthalene-like odor. Product noted at the bottom of the jar sampler. |
|        |          | 16:09 | 460                    | 0.2            |          |          | >1000          | Blebs noted at the water surface of the water sampler, sheen noted, light product noted at the bottom of the jar.                             |
|        |          |       |                        |                |          |          |                | Development is completed at 460 gallons                                                                                                       |
| NRW-4  | 4/3/2014 | 9:45  |                        |                | 6.04     | 60.9     |                | Anticipated Volume is 412 Gallons                                                                                                             |
|        |          | 10:20 | 500                    | 0.3            |          |          |                | Water appears brown, silty, trace NAPL blebs                                                                                                  |
|        |          | 10:50 | 560                    | 0.2            |          |          |                | Water appears silty, red-brown color, strong odor, no blebs                                                                                   |
|        |          | 11:00 | 600                    | 0.3            |          |          | 1404           | No measurable product in development                                                                                                          |
|        |          |       |                        |                |          |          |                | Development is completed at 600 gallons                                                                                                       |
| NRW-5  | 4/3/2014 | 12:25 |                        |                | 7.75     | 66.2     |                | Anticipated Volume is 438 Gallons                                                                                                             |
|        |          | 13:00 | 150                    | 0.3            |          |          |                | Water appears medium red, silty, strong Naphthalene odor                                                                                      |
|        |          | 13:28 | 250                    | 0.1            |          |          |                | Water is cloudy, faint odor                                                                                                                   |
|        |          | 13:40 | 340                    | 0.1            |          |          | 194            | Water appears brown, cloudy, faint odor, no sheen, no measurable product                                                                      |
|        |          | 14:38 | 650                    | 0.0            |          |          | 91.1           | Water is slightly cloudy, No measurable product in development                                                                                |
|        |          |       |                        |                |          |          |                | Development is completed at 650 gallons                                                                                                       |
| NRW-6  | 4/3/2014 |       |                        |                | 5.35     | 65.85    |                | Anticipated Volume is 454 Gallons                                                                                                             |
|        | 4/3/2014 | 13:36 | 170                    |                |          |          |                | Paused Development at 170 gallons                                                                                                             |
|        | 4/7/2014 | 12:15 | 345                    | 0.3            |          |          | 89.1           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                        |
|        |          | 12:50 | 370                    | 0.3            |          |          | 75.8           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                        |
|        |          | 13:21 | 395                    | 0.3            |          |          | 75.8           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                        |
|        |          | 15:07 | 465                    | 0.2            |          |          | 59.2           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                        |
|        |          |       |                        |                |          |          |                | Development is completed at 465 gallons                                                                                                       |

Well Development Data /Sample Descriptions

| Well # | Date      | Time  | Water surged (gallons) | CAMP PID (ppm) | DTW (ft) | DTB (ft) | Turbidity(NTU) | Notes                                                                                             |
|--------|-----------|-------|------------------------|----------------|----------|----------|----------------|---------------------------------------------------------------------------------------------------|
| NRW-7  | 4/10/2014 | 12:30 |                        |                | 6.51     | 61.2     |                | Anticipated Volume is 410 Gallons                                                                 |
|        |           | 12:45 |                        |                |          |          |                | Development begins                                                                                |
|        |           | 13:07 | 50                     |                |          |          |                | 100% product in the sampler                                                                       |
|        |           | 13:22 | 125                    |                |          |          |                | 100% product in the sampler                                                                       |
|        |           | 13:28 | 145                    |                |          |          |                | 100% product in the sampler                                                                       |
|        |           | 13:28 | 145                    |                |          |          |                | Development is completed at 145 gallons                                                           |
| NRW-8  | 4/10/2014 | 8:30  |                        |                | 6.75     | 58.45    |                | Anticipated Volume is 388 Gallons                                                                 |
|        |           | 8:40  |                        |                |          |          |                | Development begins                                                                                |
|        |           | 10:15 | 112.5                  | 0.4            |          |          | 1393           | Water appears cloudy, no blebs noted, sheen noted, no product noted, faint Naphthalene-like odor. |
|        |           | 11:05 | 125                    |                |          |          |                | Paused Development at 125.00 gallons due to Slow Recharge.                                        |
|        |           | 12:17 | 131.25                 |                |          |          | 1406           | Water appears in silty /cloudy, no product noted, faint Naphthalene-like odor.                    |
|        |           | 12:35 |                        |                |          |          |                | Paused Development at 131.25 gallons due to Slow Recharge.                                        |
|        |           | 14:05 |                        |                |          |          |                | Development begins from 131.25 gallons                                                            |
|        |           | 14:22 | 150                    | 0.2            |          |          | 663            | Water appears less silty /cloudy, sheen noted, no product noted, faint Naphthalene-like odor.     |
|        |           | 15:05 | 156                    | 0.2            |          |          | 120            | Water appears cloudy, sheen noted, no product noted, faint Naphthalene-like odor.                 |
|        |           | 16:00 | 160                    |                |          |          |                | Paused Development at 160 gallons                                                                 |
|        | 4/11/2014 | 8:20  | 160                    |                |          |          |                | Development begins from 160.00 gallons                                                            |
|        |           | 8:57  | 240                    |                |          |          | 106.7          | Water appears less silty /cloudy, sheen noted, no product noted, faint Naphthalene-like odor.     |
|        |           | 9:17  | 260                    |                |          |          | 94.4           | Water appears less silty /cloudy, sheen noted, no product noted, faint Naphthalene-like odor.     |
|        |           | 9:30  | 260                    |                |          |          |                | Paused Development at 260.00 gallons due to Slow Recharge.                                        |
|        |           | 9:52  | 266                    |                |          |          | 103.5          | Water appears less silty /cloudy, sheen noted, no product noted, faint Naphthalene-like odor.     |
|        |           | 10:39 | 272                    |                |          |          | 68.9           | Water appears almost clear, No sheen noted, No product noted, faint Naphthalene-like odor.        |
|        |           | 11:02 | 285                    | 0.2            |          |          | 49.6           | Water appears almost clear, No sheen noted, No product noted, faint Naphthalene-like odor.        |
|        |           | 11:33 | 291                    |                |          |          | 47.9           | Water appears almost clear, sheen noted, No product noted, faint Naphthalene-like odor.           |
|        |           | 11:33 | 291                    |                |          |          |                | Development is completed at 291 gallons                                                           |

Well Development Data /Sample Descriptions

| Well # | Date     | Time  | Water surged (gallons) | CAMP PID (ppm) | DTW (ft) | DTB (ft) | Turbidity(NTU) | Notes                                                                                                                                                |
|--------|----------|-------|------------------------|----------------|----------|----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| NRW-9  | 4/9/2014 | 13:52 |                        |                | 7.62     | 56.8     |                | Anticipated Volume is 369 Gallons                                                                                                                    |
|        |          | 14:30 |                        |                |          |          |                | Development begins                                                                                                                                   |
|        |          | 14:48 | 150                    | 0.1            |          |          | 1690           | Sample is Silty/cloudy, Blebs noted at the water surface of the water sampler, product noted at the top of the jar, Strong Naphthalene-like odor.    |
|        |          | 15:27 | 300                    | 0.1            |          |          | 1772           | Sample is Silty/cloudy, Blebs noted at the water surface of the water sampler, product noted at the top of the jar, Strong Naphthalene-like odor.    |
|        |          | 15:40 | 370                    |                |          |          |                | Sample is Silty/cloudy, measurable product noted in the jar, Strong Naphthalene-like odor.                                                           |
|        |          | 15:50 | 400                    |                |          |          |                | Sample is Silty/cloudy, measurable product noted in the jar, Strong Naphthalene-like odor.                                                           |
|        |          | 15:50 |                        |                |          |          |                | Completed Development at 400 gallons. Product is noted at 370 and 400 Gallons.                                                                       |
| NRW-10 | 4/9/2014 | 9:46  |                        |                | 6.32     | 54.0     |                | Anticipated Volume is 358 Gallons                                                                                                                    |
|        |          | 10:36 |                        |                |          |          |                | Development begins                                                                                                                                   |
|        |          | 11:13 | 80                     | 0.1            |          |          |                | Silty/cloudy, Blebs noted at the water surface of the water sampler, light product noted at the top of the jar.                                      |
|        |          | 12:55 | 200                    | 0.0            |          |          | 59             | Water appears less silty /cloudy, blebs noted, sheen noted, no product noted, faint Naphthalene-like odor.                                           |
|        |          | 13:05 | 206.25                 | 0.1            |          |          | 56.9           | Water appears less silty /cloudy, blebs noted 50-60% on the matrix of the water surface, sheen noted, no product noted, faint Naphthalene-like odor. |
|        |          | 13:10 | 212.5                  | 0.1            |          |          | 55.7           | Water appears almost Clear, blebs noted 40-50% on the matrix of the water surface, no product noted, faint Naphthalene-like odor.                    |
|        |          | 13:19 | 225                    | 0.1            |          |          | 40.4           | Water appears fairly Clear, blebs noted 10-20% on the matrix of the water surface, Sheen noted, no product noted, faint Naphthalene-like odor.       |
|        |          | 13:35 | 250                    | 0.1            |          |          | 45.6           | Water appears fairly Clear, blebs noted 5-10% on the matrix of the water surface, Sheen noted, no product noted, faint Naphthalene-like odor.        |
|        |          | 13:45 | 256.25                 | 0.1            |          |          | 44.8           | Water appears fairly Clear, blebs noted 0-5% on the matrix of the water surface, Sheen noted, no product noted, faint Naphthalene-like odor.         |
| NRW-11 | 4/8/2014 | 13:55 |                        |                | 7.24     | 56.7     |                | Anticipated Volume is 371 Gallons                                                                                                                    |
|        |          | 14:15 |                        |                |          |          |                | Development begins                                                                                                                                   |
|        |          | 15:47 | 200                    |                |          |          |                | Water appears in silty /cloudy , no product noted, faint Naphthalene-like odor.                                                                      |
|        |          | 15:47 |                        |                |          |          |                | Paused Development at 200 gallons                                                                                                                    |
|        | 4/9/2014 | 9:24  | 400                    | 0.2            |          |          | 726            | Water appears in silty /cloudy, sheen noted, no product noted, faint Naphthalene-like odor.                                                          |
|        |          | 9:30  |                        |                |          |          |                | Development is completed at 400 gallons                                                                                                              |
| NRW-12 | 4/8/2014 | 8:54  |                        |                | 4.8      | 58.2     |                | Anticipated Volume is 400.50 Gallons                                                                                                                 |
|        |          | 12:16 |                        |                |          |          |                | Development begins                                                                                                                                   |
|        |          | 13:28 | 175                    | 0.0            |          |          |                | Measurable Product noted in the sample                                                                                                               |
|        |          | 13:30 |                        |                |          |          |                | Development is completed at 175 gallons                                                                                                              |
| NRW-13 | 4/8/2014 | 8:45  |                        |                | 4.49     | 59.7     |                | Anticipated Volume is 414 Gallons                                                                                                                    |
|        |          | 9:49  | 175                    | 0.1            |          |          | 94.5           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 10:15 | 250                    | 0.0            |          |          | 87.5           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 10:30 | 300                    | 0.0            |          |          | 87.3           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 10:46 | 350                    | 0.1            |          |          | 67.9           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 11:03 | 400                    | 0.1            |          |          | 42.2           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 11:12 | 425                    | 0.0            |          |          | 46.6           | Sample is almost clear, Faint Naphthalene-like Odor, No Product noted.                                                                               |
|        |          | 11:15 | 425                    |                |          |          |                | Development is completed at 425 gallons                                                                                                              |

APPENDIX G  
CAMP DATA

UW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000473

Data Points: 23

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/10/2014 | 06:15 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/10/2014 | 06:30 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/10/2014 | 06:45 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/10/2014 | 07:00 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/10/2014 | 07:15 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/10/2014 | 07:30 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/10/2014 | 07:45 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/10/2014 | 08:00 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/10/2014 | 08:15 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/10/2014 | 08:30 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/10/2014 | 08:45 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/10/2014 | 09:00 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/10/2014 | 09:15 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/10/2014 | 09:30 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/10/2014 | 09:45 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/10/2014 | 10:00 | 0.0 |  | 0.0 | 0.0 |
| 17 | 03/10/2014 | 10:15 | 0.0 |  | 0.0 | 0.0 |
| 18 | 03/10/2014 | 10:30 | 0.0 |  | 0.0 | 0.0 |
| 19 | 03/10/2014 | 10:45 | 0.0 |  | 0.0 | 0.0 |
| 20 | 03/10/2014 | 11:00 | 0.0 |  | 0.0 | 0.0 |
| 21 | 03/10/2014 | 11:15 | 0.0 |  | 0.0 | 0.0 |
| 22 | 03/10/2014 | 11:30 | 0.0 |  | 0.0 | 0.0 |
| 23 | 03/10/2014 | 11:45 | 0.0 |  | 0.0 | 0.0 |

UW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000027

Data Points: 22

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/11/2014 | 09:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/11/2014 | 09:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/11/2014 | 09:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/11/2014 | 09:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/11/2014 | 10:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/11/2014 | 10:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/11/2014 | 10:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/11/2014 | 10:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/11/2014 | 11:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/11/2014 | 11:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/11/2014 | 11:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/11/2014 | 11:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/11/2014 | 12:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/11/2014 | 12:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/11/2014 | 12:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/11/2014 | 12:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/11/2014 | 13:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/11/2014 | 13:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/11/2014 | 13:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/11/2014 | 13:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/11/2014 | 14:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/11/2014 | 14:10 | 0.0 | 0.0 | 0.0 | 0.0 |

DW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000474

Data Points: 11

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
50.0

50.0

50.0

Line# Date Time Min(ppm) Alarm Avg(ppm) Alarm Max(ppm) Alarm

|    |            |       |     |  |     |  |     |
|----|------------|-------|-----|--|-----|--|-----|
| 1  | 03/11/2014 | 08:30 | 0.0 |  | 0.0 |  | 0.0 |
| 2  | 03/11/2014 | 08:45 | 0.0 |  | 0.0 |  | 0.0 |
| 3  | 03/11/2014 | 09:00 | 0.0 |  | 0.0 |  | 0.0 |
| 4  | 03/11/2014 | 09:15 | 0.0 |  | 0.0 |  | 0.0 |
| 5  | 03/11/2014 | 09:30 | 0.0 |  | 0.0 |  | 0.0 |
| 6  | 03/11/2014 | 09:45 | 0.0 |  | 0.0 |  | 0.0 |
| 7  | 03/11/2014 | 10:00 | 0.0 |  | 0.0 |  | 0.0 |
| 8  | 03/11/2014 | 10:15 | 0.0 |  | 0.0 |  | 0.0 |
| 9  | 03/11/2014 | 10:30 | 0.0 |  | 0.0 |  | 0.0 |
| 10 | 03/11/2014 | 10:45 | 0.0 |  | 0.0 |  | 0.0 |
| 11 | 03/11/2014 | 10:54 | 0.0 |  | 0.0 |  | 0.0 |

UW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000028

Data Points: 23

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 03/12/2014 07:45 0.0          0.0          0.0
2 03/12/2014 08:00 0.0          0.0          0.0
3 03/12/2014 08:15 0.0          0.0          0.0
4 03/12/2014 08:30 0.0          0.0          0.0
5 03/12/2014 08:45 0.0          0.0          0.0
6 03/12/2014 09:00 0.0          0.0          0.0
7 03/12/2014 09:15 0.0          0.0          0.0
8 03/12/2014 09:30 0.0          0.0          0.0
9 03/12/2014 09:45 0.0          0.0          0.0
10 03/12/2014 10:00 0.0          0.0          0.0
11 03/12/2014 10:15 0.0          0.0          0.0
12 03/12/2014 10:30 0.0          0.0          0.0
13 03/12/2014 10:45 0.0          0.0          0.0
14 03/12/2014 11:00 0.0          0.0          0.0
15 03/12/2014 11:15 0.0          0.0          0.0
16 03/12/2014 11:30 0.0          0.0          0.0
17 03/12/2014 11:45 0.0          0.0          0.0
18 03/12/2014 12:00 0.0          0.0          0.0
19 03/12/2014 12:15 0.0          0.0          0.0
20 03/12/2014 12:30 0.0          0.0          0.0
21 03/12/2014 12:45 0.0          0.0          0.0
22 03/12/2014 13:00 0.0          0.0          0.0
23 03/12/2014 13:08 0.0          0.0          0.0
=====
```

DW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)

Serial Number:

005750

User ID: 000000001

Site ID: 00000483

Data Points: 5

Gas Name: Isobutylene

Sample

Period: 60 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====
=====
```

```
=====
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
=====
1 03/12/2014 08:56   0.0           0.0           0.0           0.0
2 03/12/2014 08:57   0.0           0.0           0.0           0.0
3 03/12/2014 08:58   0.0           0.0           0.0           0.0
4 03/12/2014 08:59   0.0           0.0           0.0           0.0
5 03/12/2014 09:00   0.0           0.0           0.0           0.0
```

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000351

Data Points: 14

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/12/2014 | 09:57 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/12/2014 | 10:12 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/12/2014 | 10:27 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/12/2014 | 11:02 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/12/2014 | 11:17 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/12/2014 | 11:32 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/12/2014 | 11:47 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/12/2014 | 12:02 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/12/2014 | 12:17 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/12/2014 | 12:56 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/12/2014 | 13:11 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/12/2014 | 13:26 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/12/2014 | 13:41 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/12/2014 | 13:56 | 0.0 |  | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000131

Data Points: 20

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/12/2014 | 08:41 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/12/2014 | 08:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/12/2014 | 09:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/12/2014 | 09:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/12/2014 | 09:30 | 0.0 | 0.0 | 0.0 | 0.1 |
| 6  | 03/12/2014 | 09:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/12/2014 | 10:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/12/2014 | 10:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/12/2014 | 10:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/12/2014 | 10:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/12/2014 | 11:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/12/2014 | 11:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/12/2014 | 11:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/12/2014 | 11:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/12/2014 | 12:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/12/2014 | 12:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/12/2014 | 12:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/12/2014 | 12:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/12/2014 | 13:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/12/2014 | 13:13 | 0.0 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000358

Data Points: 22

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date       | Time  | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------------|-------|----------|----------------|----------------|-------|
| 1     | 03/13/2014 | 09:34 | 0.0      | 0.0            | 0.0            |       |
| 2     | 03/13/2014 | 09:49 | 0.0      | 0.0            | 0.0            |       |
| 3     | 03/13/2014 | 10:04 | 0.0      | 0.0            | 0.0            |       |
| 4     | 03/13/2014 | 10:19 | 0.0      | 0.0            | 0.0            |       |
| 5     | 03/13/2014 | 10:34 | 0.0      | 0.0            | 0.0            |       |
| 6     | 03/13/2014 | 10:49 | 0.0      | 0.0            | 0.0            |       |
| 7     | 03/13/2014 | 11:04 | 0.0      | 0.0            | 0.0            |       |
| 8     | 03/13/2014 | 11:19 | 0.0      | 0.0            | 0.0            |       |
| 9     | 03/13/2014 | 11:34 | 0.0      | 0.0            | 0.0            |       |
| 10    | 03/13/2014 | 11:49 | 0.0      | 0.0            | 0.0            |       |
| 11    | 03/13/2014 | 12:04 | 0.0      | 0.0            | 0.0            |       |
| 12    | 03/13/2014 | 12:19 | 0.0      | 0.0            | 0.0            |       |
| 13    | 03/13/2014 | 12:34 | 0.0      | 0.0            | 0.0            |       |
| 14    | 03/13/2014 | 12:49 | 0.0      | 0.0            | 0.0            |       |
| 15    | 03/13/2014 | 13:04 | 0.0      | 0.0            | 0.0            |       |
| 16    | 03/13/2014 | 13:19 | 0.0      | 0.0            | 0.0            |       |
| 17    | 03/13/2014 | 13:34 | 0.0      | 0.0            | 0.0            |       |
| 18    | 03/13/2014 | 13:49 | 0.0      | 0.0            | 0.0            |       |
| 19    | 03/13/2014 | 14:04 | 0.0      | 0.0            | 0.0            |       |
| 20    | 03/13/2014 | 14:19 | 0.0      | 0.0            | 0.0            |       |
| 21    | 03/13/2014 | 14:34 | 0.0      | 0.0            | 0.0            |       |
| 22    | 03/13/2014 | 14:49 | 0.0      | 0.0            | 0.0            |       |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000135

Data Points: 28

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           50.0              50.0
50.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/13/2014 | 07:36 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/13/2014 | 07:51 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/13/2014 | 08:06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/13/2014 | 08:21 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/13/2014 | 09:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/13/2014 | 09:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/13/2014 | 10:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/13/2014 | 10:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/13/2014 | 10:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/13/2014 | 10:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/13/2014 | 11:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/13/2014 | 11:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/13/2014 | 11:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/13/2014 | 11:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/13/2014 | 12:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/13/2014 | 12:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/13/2014 | 12:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/13/2014 | 12:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/13/2014 | 13:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/13/2014 | 13:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/13/2014 | 13:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/13/2014 | 13:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 03/13/2014 | 14:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 03/13/2014 | 14:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 03/13/2014 | 14:30 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26 | 03/13/2014 | 14:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27 | 03/13/2014 | 15:00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 03/13/2014 | 15:03 | 0.0 | 0.0 | 0.0 | 0.0 |

DW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000484

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0            100.0
100.0
Low Alarm Levels:           5.0              5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/13/2014 | 09:00 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/13/2014 | 09:15 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/13/2014 | 09:30 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/13/2014 | 09:45 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/13/2014 | 10:00 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/13/2014 | 10:15 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/13/2014 | 10:30 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/13/2014 | 10:45 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/13/2014 | 11:00 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/13/2014 | 11:15 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/13/2014 | 11:30 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/13/2014 | 11:45 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/13/2014 | 12:00 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/13/2014 | 12:15 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/13/2014 | 12:30 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/13/2014 | 12:45 | 0.0 |  | 0.0 | 0.0 |
| 17 | 03/13/2014 | 13:00 | 0.0 |  | 0.0 | 0.0 |
| 18 | 03/13/2014 | 13:15 | 0.0 |  | 0.0 | 0.0 |
| 19 | 03/13/2014 | 13:30 | 0.0 |  | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000030

Data Points: 20

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/14/2014 | 08:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/14/2014 | 09:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/14/2014 | 09:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/14/2014 | 09:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/14/2014 | 09:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/14/2014 | 10:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/14/2014 | 10:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/14/2014 | 10:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/14/2014 | 10:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/14/2014 | 11:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/14/2014 | 11:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/14/2014 | 11:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/14/2014 | 11:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/14/2014 | 12:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/14/2014 | 12:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/14/2014 | 12:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/14/2014 | 12:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/14/2014 | 13:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/14/2014 | 13:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/14/2014 | 13:27 | 0.0 | 0.0 | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000487

Data Points: 24

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 03/14/2014 09:25 0.0           0.0           0.0
2 03/14/2014 09:40 0.0           0.0           0.0
3 03/14/2014 09:55 0.0           0.0           0.0
4 03/14/2014 10:10 0.0           0.0           0.0
5 03/14/2014 10:25 0.0           0.0           0.0
6 03/14/2014 10:40 0.0           0.0           0.0
7 03/14/2014 10:55 0.0           0.0           0.0
8 03/14/2014 11:10 0.0           0.0           0.0
9 03/14/2014 11:25 0.0           0.0           0.0
10 03/14/2014 11:40 0.0           0.0           0.0
11 03/14/2014 11:55 0.0           0.0           0.0
12 03/14/2014 12:10 0.0           0.0           0.0
13 03/14/2014 12:25 0.0           0.0           0.0
14 03/14/2014 12:40 0.0           0.0           0.0
15 03/14/2014 12:55 0.0           0.0           0.0
16 03/14/2014 13:10 0.0           0.0           0.0
17 03/14/2014 13:25 0.0           0.0           0.0
18 03/14/2014 13:40 0.0           0.0           0.0
19 03/14/2014 13:55 0.0           0.0           0.0
20 03/14/2014 14:10 0.0           0.0           0.0
21 03/14/2014 14:25 0.0           0.0           0.0
22 03/14/2014 14:40 0.0           0.0           0.0
23 03/14/2014 14:55 0.0           0.0           0.0
24 03/14/2014 14:57 0.0           0.0           0.0
=====
```

UW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)

Serial Number:

015055

User ID: 000000001

Site ID: 00000363

Data Points: 5

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```
=====
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====
=====
```

```
=====
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
=====
1 03/14/2014 08:42  0.0           0.0           0.0           0.0
2 03/14/2014 08:57  0.0           0.0           0.0           0.0
3 03/14/2014 09:12  0.0           0.0           0.0           0.0
4 03/14/2014 09:27  0.0           0.0           0.0           0.0
5 03/14/2014 09:42  0.0           0.0           0.0           0.0
```

DW HCLEAR

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000136

Data Points: 7

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

```
=====
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0             5.0
5.0
=====
=====
```

```
=====
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
=====
1 03/14/2014 08:30   0.0           0.0           0.0           0.0
2 03/14/2014 08:45   0.0           0.0           0.0           0.0
3 03/14/2014 09:00   0.0           0.0           0.0           0.0
4 03/14/2014 09:15   0.0           0.0           0.0           0.0
5 03/14/2014 09:30   0.0           0.0           0.0           0.0
6 03/14/2014 09:45   0.0           0.0           0.0           0.0
7 03/14/2014 10:00   0.0           0.0           0.0           0.0
=====
```

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000031

Data Points: 25

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/17/2014 | 09:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/17/2014 | 09:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/17/2014 | 09:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/17/2014 | 09:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/17/2014 | 10:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/17/2014 | 10:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/17/2014 | 10:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/17/2014 | 10:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/17/2014 | 11:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/17/2014 | 11:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/17/2014 | 11:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/17/2014 | 11:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/17/2014 | 12:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/17/2014 | 12:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/17/2014 | 12:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/17/2014 | 12:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/17/2014 | 13:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/17/2014 | 13:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/17/2014 | 13:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/17/2014 | 13:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/17/2014 | 14:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/17/2014 | 14:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 03/17/2014 | 14:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 03/17/2014 | 14:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 03/17/2014 | 14:57 | 0.0 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000032

Data Points: 28

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1 03/18/2014 08:45 0.0           0.0           0.0
2 03/18/2014 09:00 0.0           0.0           0.0
3 03/18/2014 09:15 0.0           0.0           0.0
4 03/18/2014 09:30 0.0           0.0           0.0
5 03/18/2014 09:45 0.0           0.0           0.0
6 03/18/2014 10:00 0.0           0.0           0.0
7 03/18/2014 10:15 0.0           0.0           0.0
8 03/18/2014 10:30 0.0           0.0           0.0
9 03/18/2014 10:45 0.0           0.0           0.0
10 03/18/2014 11:00 0.0           0.0           0.0
11 03/18/2014 11:15 0.0           0.0           0.0
12 03/18/2014 11:30 0.0           0.0           0.0
13 03/18/2014 11:45 0.0           0.0           0.0
14 03/18/2014 12:00 0.0           0.0           0.0
15 03/18/2014 12:15 0.0           0.0           0.0
16 03/18/2014 12:30 0.0           0.0           0.0
17 03/18/2014 12:45 0.0           0.0           0.0
18 03/18/2014 13:00 0.0           0.0           0.0
19 03/18/2014 13:15 0.0           0.0           0.0
20 03/18/2014 13:30 0.0           0.0           0.0
21 03/18/2014 13:45 0.0           0.0           0.0
22 03/18/2014 14:00 0.0           0.0           0.0
23 03/18/2014 14:15 0.0           0.0           0.0
24 03/18/2014 14:30 0.0           0.0           0.0
25 03/18/2014 14:45 0.0           0.0           0.0
26 03/18/2014 15:00 0.0           0.0           0.0
27 03/18/2014 15:15 0.0           0.0           0.0
28 03/18/2014 15:27 0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000491

Data Points: 31

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/18/2014 | 08:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/18/2014 | 09:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 03/18/2014 | 09:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/18/2014 | 09:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/18/2014 | 09:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/18/2014 | 10:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/18/2014 | 10:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/18/2014 | 10:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/18/2014 | 10:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/18/2014 | 11:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/18/2014 | 11:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/18/2014 | 11:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/18/2014 | 11:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/18/2014 | 12:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/18/2014 | 12:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/18/2014 | 12:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/18/2014 | 12:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/18/2014 | 13:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/18/2014 | 13:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/18/2014 | 13:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/18/2014 | 13:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 22 | 03/18/2014 | 14:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 23 | 03/18/2014 | 14:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 24 | 03/18/2014 | 14:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 25 | 03/18/2014 | 14:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 26 | 03/18/2014 | 15:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 27 | 03/18/2014 | 15:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 28 | 03/18/2014 | 15:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 29 | 03/18/2014 | 15:55 | 0.0 |  | 0.2 |  | 1.0 |  |
| 30 | 03/18/2014 | 16:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 31 | 03/18/2014 | 16:14 | 0.0 |  | 0.0 |  | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)

Serial Number:

005683

User ID: 000000001

Site ID: 000000033

Data Points: 14

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0          100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1 03/19/2014 13:00   0.0           0.0           0.0           0.0
2 03/19/2014 13:15   0.0           0.0           0.0           0.0
3 03/19/2014 13:45   0.0           0.0           0.0           0.0
4 03/19/2014 14:00   0.0           0.0           0.0           0.0
5 03/19/2014 14:15   0.0           0.0           0.0           0.0
6 03/19/2014 14:30   0.0           0.0           0.0           0.0
7 03/19/2014 14:45   0.0           0.0           0.0           0.0
8 03/19/2014 15:00   0.0           0.0           0.0           0.0
9 03/19/2014 15:15   0.0           0.0           0.0           0.0
10 03/19/2014 15:30   0.0           0.0           0.0           0.0
11 03/19/2014 15:45   0.0           0.0           0.0           0.0
12 03/19/2014 16:00   0.0           0.0           0.0           0.0
13 03/19/2014 16:15   0.0           0.0           0.0           0.0
14 03/19/2014 16:18   0.0           0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000492

Data Points: 15

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------|------|----------|----------------|----------------|-------|
|-------|------|------|----------|----------------|----------------|-------|

|    |            |       |     |     |     |  |
|----|------------|-------|-----|-----|-----|--|
| 1  | 03/19/2014 | 13:04 | 0.0 | 0.0 | 0.0 |  |
| 2  | 03/19/2014 | 13:19 | 0.0 | 0.0 | 0.0 |  |
| 3  | 03/19/2014 | 13:34 | 0.0 | 0.0 | 0.0 |  |
| 4  | 03/19/2014 | 13:49 | 0.0 | 0.0 | 0.0 |  |
| 5  | 03/19/2014 | 14:04 | 0.0 | 0.0 | 0.0 |  |
| 6  | 03/19/2014 | 14:19 | 0.0 | 0.0 | 0.0 |  |
| 7  | 03/19/2014 | 14:34 | 0.0 | 0.0 | 0.0 |  |
| 8  | 03/19/2014 | 14:49 | 0.0 | 0.0 | 0.0 |  |
| 9  | 03/19/2014 | 15:04 | 0.0 | 0.0 | 0.0 |  |
| 10 | 03/19/2014 | 15:19 | 0.0 | 0.0 | 0.0 |  |
| 11 | 03/19/2014 | 15:34 | 0.0 | 0.0 | 0.0 |  |
| 12 | 03/19/2014 | 15:49 | 0.0 | 0.0 | 0.0 |  |
| 13 | 03/19/2014 | 16:04 | 0.0 | 0.0 | 0.0 |  |
| 14 | 03/19/2014 | 16:19 | 0.0 | 0.0 | 0.0 |  |
| 15 | 03/19/2014 | 16:23 | 0.0 | 0.0 | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000034

Data Points: 25

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0            5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/20/2014 | 09:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/20/2014 | 09:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/20/2014 | 09:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/20/2014 | 09:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/20/2014 | 10:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/20/2014 | 10:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/20/2014 | 10:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/20/2014 | 10:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/20/2014 | 11:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/20/2014 | 11:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/20/2014 | 11:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/20/2014 | 11:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/20/2014 | 12:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/20/2014 | 12:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/20/2014 | 12:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/20/2014 | 12:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/20/2014 | 13:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/20/2014 | 13:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/20/2014 | 13:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/20/2014 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/20/2014 | 14:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/20/2014 | 14:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 03/20/2014 | 14:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 03/20/2014 | 14:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 03/20/2014 | 15:00 | 0.0 | 0.0 | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000494

Data Points: 21

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/20/2014 | 10:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/20/2014 | 10:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 03/20/2014 | 10:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/20/2014 | 10:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/20/2014 | 11:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/20/2014 | 11:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/20/2014 | 11:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/20/2014 | 11:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/20/2014 | 12:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/20/2014 | 12:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/20/2014 | 12:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/20/2014 | 12:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/20/2014 | 13:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/20/2014 | 13:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/20/2014 | 13:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/20/2014 | 13:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/20/2014 | 14:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/20/2014 | 14:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/20/2014 | 14:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/20/2014 | 14:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/20/2014 | 15:03 | 0.0 |  | 0.0 |  | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000036

Data Points: 27

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/24/2014 | 08:45 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/24/2014 | 09:00 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/24/2014 | 09:15 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/24/2014 | 09:30 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/24/2014 | 09:45 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/24/2014 | 10:00 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/24/2014 | 10:15 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/24/2014 | 10:30 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/24/2014 | 10:45 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/24/2014 | 11:00 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/24/2014 | 11:15 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/24/2014 | 11:30 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/24/2014 | 11:45 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/24/2014 | 12:00 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/24/2014 | 12:15 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/24/2014 | 12:30 | 0.0 |  | 0.0 | 0.0 |
| 17 | 03/24/2014 | 12:45 | 0.0 |  | 0.0 | 0.0 |
| 18 | 03/24/2014 | 13:00 | 0.0 |  | 0.0 | 0.0 |
| 19 | 03/24/2014 | 13:15 | 0.0 |  | 0.0 | 0.0 |
| 20 | 03/24/2014 | 13:30 | 0.0 |  | 0.0 | 0.0 |
| 21 | 03/24/2014 | 13:45 | 0.0 |  | 0.0 | 0.0 |
| 22 | 03/24/2014 | 14:00 | 0.0 |  | 0.0 | 0.0 |
| 23 | 03/24/2014 | 14:15 | 0.0 |  | 0.0 | 0.0 |
| 24 | 03/24/2014 | 14:30 | 0.0 |  | 0.0 | 0.0 |
| 25 | 03/24/2014 | 14:45 | 0.0 |  | 0.0 | 0.0 |
| 26 | 03/24/2014 | 15:00 | 0.0 |  | 0.0 | 0.0 |
| 27 | 03/24/2014 | 15:06 | 0.0 |  | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000495

Data Points: 30

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/24/2014 | 08:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/24/2014 | 09:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 03/24/2014 | 09:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/24/2014 | 09:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/24/2014 | 09:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/24/2014 | 10:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/24/2014 | 10:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/24/2014 | 10:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/24/2014 | 10:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/24/2014 | 11:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/24/2014 | 11:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/24/2014 | 11:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/24/2014 | 11:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/24/2014 | 12:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/24/2014 | 12:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/24/2014 | 12:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/24/2014 | 12:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/24/2014 | 13:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/24/2014 | 13:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/24/2014 | 13:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/24/2014 | 13:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 22 | 03/24/2014 | 14:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 23 | 03/24/2014 | 14:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 24 | 03/24/2014 | 14:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 25 | 03/24/2014 | 14:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 26 | 03/24/2014 | 15:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 27 | 03/24/2014 | 15:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 28 | 03/24/2014 | 15:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 29 | 03/24/2014 | 15:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 30 | 03/24/2014 | 15:59 | 0.0 |  | 0.0 |  | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)

Serial Number:

015055

User ID: 000000001

Site ID: 00000365

Data Points: 8

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```
=====
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0             5.0
5.0
=====
=====
```

```
=====
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
=====
1 03/24/2014 14:04   0.0           0.0           0.0
2 03/24/2014 14:19   0.0           0.0           0.0
3 03/24/2014 14:34   0.0           0.0           0.0
4 03/24/2014 14:49   0.0           0.0           0.0
5 03/24/2014 15:04   0.0           0.0           0.0
6 03/24/2014 15:19   0.0           0.0           0.0
7 03/24/2014 15:34   0.0           0.0           0.0
8 03/24/2014 15:49   0.0           0.0           0.0
```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000140

Data Points: 10

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------|------|----------|----------------|----------------|-------|
|-------|------|------|----------|----------------|----------------|-------|

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/24/2014 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/24/2014 | 14:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/24/2014 | 14:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/24/2014 | 14:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/24/2014 | 14:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/24/2014 | 15:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/24/2014 | 15:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/24/2014 | 15:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/24/2014 | 15:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/24/2014 | 16:10 | 0.0 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000037

Data Points: 15

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0             5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

```

1 03/25/2014 09:30 0.0           0.0           0.0
2 03/25/2014 09:45 0.0           0.0           0.0
3 03/25/2014 10:00 0.0           0.0           0.0
4 03/25/2014 10:14 0.0           0.0           0.0

5 03/25/2014 12:40 0.0           0.0           0.0
6 03/25/2014 12:55 0.0           0.0           0.0
7 03/25/2014 13:10 0.0           0.0           0.0
8 03/25/2014 13:25 0.0           0.0           0.0
9 03/25/2014 13:40 0.0           0.0           0.0
10 03/25/2014 13:55 0.0           0.0           0.0
11 03/25/2014 14:10 0.0           0.0           0.0
12 03/25/2014 14:25 0.0           0.0           0.0
13 03/25/2014 14:40 0.0           0.0           0.0
14 03/25/2014 14:55 0.0           0.0           0.0
15 03/25/2014 15:10 0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000496

Data Points: 24

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0            100.0
100.0
Low Alarm Levels:           5.0              5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 03/25/2014 09:35 0.0          0.0          0.0
2 03/25/2014 09:50 0.0          0.0          0.0
3 03/25/2014 10:05 0.0          0.0          0.0
4 03/25/2014 10:20 0.0          0.0          0.0
5 03/25/2014 10:35 0.0          0.0          0.0
6 03/25/2014 10:50 0.0          0.0          0.0
7 03/25/2014 11:05 0.0          0.0          0.0
8 03/25/2014 11:20 0.0          0.0          0.0
9 03/25/2014 11:35 0.0          0.0          0.0
10 03/25/2014 11:50 0.0          0.0          0.0
11 03/25/2014 12:05 0.0          0.0          0.0
12 03/25/2014 12:20 0.0          0.0          0.0
13 03/25/2014 12:35 0.0          0.0          0.0
14 03/25/2014 12:50 0.0          0.0          0.0
15 03/25/2014 13:05 0.0          0.0          0.0
16 03/25/2014 13:20 0.0          0.0          0.0
17 03/25/2014 13:35 0.0          0.0          0.0
18 03/25/2014 13:50 0.0          0.0          0.0
19 03/25/2014 14:05 0.0          0.0          0.0
20 03/25/2014 14:20 0.0          0.0          0.0
21 03/25/2014 14:35 0.0          0.0          0.0
22 03/25/2014 14:50 0.0          0.0          0.0
23 03/25/2014 15:05 0.0          0.0          0.0
24 03/25/2014 15:13 0.0          0.0          0.0
=====
```

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000366

Data Points: 31

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0            5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1 03/25/2014 07:53 0.0          0.0          0.0
2 03/25/2014 08:08 0.0          0.0          0.0
3 03/25/2014 08:23 0.0          0.0          0.0
4 03/25/2014 08:38 0.0          0.0          0.0
5 03/25/2014 08:53 0.0          0.0          0.0
6 03/25/2014 09:08 0.0          0.0          0.0
7 03/25/2014 09:23 0.0          0.0          0.0
8 03/25/2014 09:38 0.0          0.0          0.0
9 03/25/2014 09:53 0.0          0.0          0.0
10 03/25/2014 10:08 0.0          0.0          0.0
11 03/25/2014 10:23 0.0          0.0          0.0
12 03/25/2014 10:38 0.0          0.0          0.0
13 03/25/2014 10:53 0.0          0.0          0.0
14 03/25/2014 11:08 0.0          0.0          0.0
15 03/25/2014 11:23 0.0          0.0          0.0
16 03/25/2014 11:38 0.0          0.0          0.0
17 03/25/2014 11:53 0.0          0.0          0.0
18 03/25/2014 12:08 0.0          0.0          0.0
19 03/25/2014 12:23 0.0          0.0          0.0
20 03/25/2014 12:38 0.0          0.0          0.0
21 03/25/2014 12:53 0.0          0.0          0.0
22 03/25/2014 13:08 0.0          0.0          0.0
23 03/25/2014 13:23 0.0          0.0          0.0
24 03/25/2014 13:38 0.0          0.0          0.0
25 03/25/2014 13:53 0.0          0.0          0.0
26 03/25/2014 14:08 0.0          0.0          0.0
27 03/25/2014 14:23 0.0          0.0          0.0
28 03/25/2014 14:38 0.0          0.0          0.0
29 03/25/2014 14:53 0.0          0.0          0.0
30 03/25/2014 15:08 0.0          0.0          0.0
31 03/25/2014 15:23 0.0          0.0          0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000141

Data Points: 34

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/25/2014 | 07:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/25/2014 | 07:55 | 0.0 |  | 0.0 |  | 1.3 |  |
| 3  | 03/25/2014 | 08:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/25/2014 | 08:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/25/2014 | 08:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/25/2014 | 08:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/25/2014 | 09:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/25/2014 | 09:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/25/2014 | 09:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/25/2014 | 09:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/25/2014 | 10:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/25/2014 | 10:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/25/2014 | 10:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/25/2014 | 10:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/25/2014 | 11:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/25/2014 | 11:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/25/2014 | 11:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/25/2014 | 11:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/25/2014 | 12:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/25/2014 | 12:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/25/2014 | 12:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 22 | 03/25/2014 | 12:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 23 | 03/25/2014 | 13:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 24 | 03/25/2014 | 13:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 25 | 03/25/2014 | 13:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 26 | 03/25/2014 | 13:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 27 | 03/25/2014 | 14:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 28 | 03/25/2014 | 14:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 29 | 03/25/2014 | 14:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 30 | 03/25/2014 | 14:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 31 | 03/25/2014 | 15:10 | 0.0 |  | 0.0 |  | 0.0 |  |

|    |            |       |     |     |     |
|----|------------|-------|-----|-----|-----|
| 32 | 03/25/2014 | 15:25 | 0.0 | 0.0 | 0.0 |
| 33 | 03/25/2014 | 15:40 | 0.0 | 0.0 | 0.0 |
| 34 | 03/25/2014 | 15:52 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000040

Data Points: 14

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1 03/26/2014 08:40 0.0           0.0           0.0           0.0
2 03/26/2014 08:55 0.0           0.0           0.0           0.0
3 03/26/2014 09:10 0.0           0.0           0.0           0.0
4 03/26/2014 09:25 0.0           0.0           0.0           0.0
5 03/26/2014 09:40 0.0           0.0           0.0           0.0
6 03/26/2014 09:55 0.0           0.0           0.0           0.0
7 03/26/2014 10:10 0.0           0.0           0.0           0.0
8 03/26/2014 10:25 0.0           0.0           0.0           0.0
9 03/26/2014 10:40 0.0           0.0           0.0           0.0
10 03/26/2014 10:55 0.0           0.0           0.0           0.0
11 03/26/2014 11:10 0.0           0.0           0.0           0.0
12 03/26/2014 11:25 0.0           0.0           0.0           0.0
13 03/26/2014 11:40 0.0           0.0           0.0           0.0
14 03/26/2014 11:52 0.0           0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000497

Data Points: 30

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/26/2014 | 08:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/26/2014 | 08:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/26/2014 | 09:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/26/2014 | 09:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/26/2014 | 09:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/26/2014 | 09:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/26/2014 | 10:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/26/2014 | 10:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/26/2014 | 10:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/26/2014 | 10:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/26/2014 | 11:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/26/2014 | 11:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/26/2014 | 11:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/26/2014 | 11:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/26/2014 | 12:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/26/2014 | 12:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/26/2014 | 12:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/26/2014 | 12:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/26/2014 | 13:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/26/2014 | 13:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/26/2014 | 13:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/26/2014 | 13:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 03/26/2014 | 14:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 03/26/2014 | 14:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 03/26/2014 | 14:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26 | 03/26/2014 | 14:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27 | 03/26/2014 | 15:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 03/26/2014 | 15:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 | 03/26/2014 | 15:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30 | 03/26/2014 | 15:45 | 0.0 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000043

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/27/2014 | 08:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/27/2014 | 09:10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/27/2014 | 09:25 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/27/2014 | 09:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/27/2014 | 09:55 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/27/2014 | 10:07 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/27/2014 | 12:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/27/2014 | 12:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/27/2014 | 13:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/27/2014 | 13:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/27/2014 | 13:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/27/2014 | 13:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/27/2014 | 14:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/27/2014 | 14:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/27/2014 | 14:35 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/27/2014 | 14:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/27/2014 | 15:05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/27/2014 | 15:20 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/27/2014 | 15:32 | 0.0 | 0.0 | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000498

Data Points: 27

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 03/27/2014 09:00 0.0          0.0          0.0
2 03/27/2014 09:15 0.0          0.0          0.0
3 03/27/2014 09:30 0.0          0.0          0.0
4 03/27/2014 09:45 0.0          0.0          0.0
5 03/27/2014 10:00 0.0          0.0          0.0
6 03/27/2014 10:15 0.0          0.0          0.0
7 03/27/2014 10:30 0.0          0.0          0.0
8 03/27/2014 10:45 0.0          0.0          0.0
9 03/27/2014 11:00 0.0          0.0          0.0
10 03/27/2014 11:15 0.0          0.0          0.0
11 03/27/2014 11:30 0.0          0.0          0.0
12 03/27/2014 11:45 0.0          0.0          0.0
13 03/27/2014 12:00 0.0          0.0          0.0
14 03/27/2014 12:15 0.0          0.0          0.0
15 03/27/2014 12:30 0.0          0.0          0.0
16 03/27/2014 12:45 0.0          0.0          0.0
17 03/27/2014 13:00 0.0          0.0          0.0
18 03/27/2014 13:15 0.0          0.0          0.0
19 03/27/2014 13:30 0.0          0.0          0.0
20 03/27/2014 13:45 0.0          0.0          0.0
21 03/27/2014 14:00 0.0          0.0          0.0
22 03/27/2014 14:15 0.0          0.0          0.0
23 03/27/2014 14:30 0.0          0.0          0.0
24 03/27/2014 14:45 0.0          0.0          0.0
25 03/27/2014 15:00 0.0          0.0          0.0
26 03/27/2014 15:15 0.0          0.0          0.0
27 03/27/2014 15:29 0.0          0.0          0.0
=====
```

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000367

Data Points: 32

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0          100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 03/27/2014 | 07:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2  | 03/27/2014 | 08:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3  | 03/27/2014 | 08:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4  | 03/27/2014 | 08:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5  | 03/27/2014 | 08:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6  | 03/27/2014 | 09:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7  | 03/27/2014 | 09:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8  | 03/27/2014 | 09:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9  | 03/27/2014 | 09:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 03/27/2014 | 10:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 03/27/2014 | 10:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 03/27/2014 | 10:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 03/27/2014 | 10:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 03/27/2014 | 11:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 03/27/2014 | 11:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 03/27/2014 | 11:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 03/27/2014 | 11:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 03/27/2014 | 12:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 03/27/2014 | 12:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 03/27/2014 | 12:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 03/27/2014 | 12:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 03/27/2014 | 13:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 03/27/2014 | 13:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 03/27/2014 | 13:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 03/27/2014 | 13:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26 | 03/27/2014 | 14:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27 | 03/27/2014 | 14:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 03/27/2014 | 14:31 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 | 03/27/2014 | 14:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30 | 03/27/2014 | 15:01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31 | 03/27/2014 | 15:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32 | 03/27/2014 | 15:31 | 0.0 | 0.0 | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000143

Data Points: 22

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/27/2014 | 07:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/27/2014 | 07:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 03/27/2014 | 08:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/27/2014 | 08:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/27/2014 | 08:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/27/2014 | 08:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/27/2014 | 09:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/27/2014 | 09:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/27/2014 | 09:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/27/2014 | 09:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/27/2014 | 10:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/27/2014 | 10:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/27/2014 | 10:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/27/2014 | 10:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/27/2014 | 11:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/27/2014 | 11:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/27/2014 | 11:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/27/2014 | 11:55 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/27/2014 | 12:10 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/27/2014 | 12:25 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/27/2014 | 12:40 | 0.0 |  | 0.0 |  | 0.0 |  |
| 22 | 03/27/2014 | 12:43 | 0.0 |  | 0.0 |  | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000046

Data Points: 22

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/28/2014 | 08:45 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/28/2014 | 09:00 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/28/2014 | 09:15 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/28/2014 | 09:30 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/28/2014 | 09:45 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/28/2014 | 10:00 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/28/2014 | 10:15 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/28/2014 | 10:30 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/28/2014 | 10:45 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/28/2014 | 11:00 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/28/2014 | 11:15 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/28/2014 | 11:30 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/28/2014 | 11:45 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/28/2014 | 12:00 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/28/2014 | 12:15 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/28/2014 | 12:30 | 0.0 |  | 0.0 | 0.0 |
| 17 | 03/28/2014 | 12:45 | 0.0 |  | 0.0 | 0.0 |
| 18 | 03/28/2014 | 13:00 | 0.0 |  | 0.0 | 0.0 |
| 19 | 03/28/2014 | 13:15 | 0.0 |  | 0.0 | 0.0 |
| 20 | 03/28/2014 | 13:30 | 0.0 |  | 0.0 | 0.0 |
| 21 | 03/28/2014 | 13:45 | 0.0 |  | 0.0 | 0.0 |
| 22 | 03/28/2014 | 13:50 | 0.0 |  | 0.0 | 0.0 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000499

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/28/2014 | 09:30 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/28/2014 | 09:45 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/28/2014 | 10:00 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/28/2014 | 10:15 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/28/2014 | 10:30 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/28/2014 | 10:45 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/28/2014 | 11:00 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/28/2014 | 11:15 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/28/2014 | 11:30 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/28/2014 | 11:45 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/28/2014 | 12:00 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/28/2014 | 12:15 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/28/2014 | 12:30 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/28/2014 | 12:45 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/28/2014 | 13:00 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/28/2014 | 13:15 | 0.0 |  | 0.0 | 0.0 |
| 17 | 03/28/2014 | 13:30 | 0.0 |  | 0.0 | 0.0 |
| 18 | 03/28/2014 | 13:45 | 0.0 |  | 0.0 | 0.0 |
| 19 | 03/28/2014 | 13:48 | 0.0 |  | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000368

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1 03/28/2014 07:58 0.0           0.0           0.0
2 03/28/2014 08:13 0.0           0.0           0.0
3 03/28/2014 08:28 0.0           0.0           0.0
4 03/28/2014 08:43 0.0           0.0           0.0
5 03/28/2014 08:58 0.0           0.0           0.0
6 03/28/2014 09:13 0.0           0.0           0.0
7 03/28/2014 09:28 0.0           0.0           0.0
8 03/28/2014 09:43 0.0           0.0           0.0
9 03/28/2014 09:58 0.0           0.0           0.0
10 03/28/2014 10:13 0.0           0.0           0.0
11 03/28/2014 10:28 0.0           0.0           0.0
12 03/28/2014 10:43 0.0           0.0           0.0
13 03/28/2014 10:58 0.0           0.0           0.0
14 03/28/2014 11:13 0.0           0.0           0.0
15 03/28/2014 11:28 0.0           0.0           0.0
16 03/28/2014 11:43 0.0           0.0           0.0
17 03/28/2014 11:58 0.0           0.0           0.0
18 03/28/2014 12:13 0.0           0.0           0.0
19 03/28/2014 12:28 0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000145

Data Points: 21

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 03/28/2014 | 07:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 03/28/2014 | 08:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 03/28/2014 | 08:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 03/28/2014 | 08:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 03/28/2014 | 08:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 03/28/2014 | 09:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 03/28/2014 | 09:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 03/28/2014 | 09:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 03/28/2014 | 09:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 03/28/2014 | 10:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 03/28/2014 | 10:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 03/28/2014 | 10:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 03/28/2014 | 10:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 03/28/2014 | 11:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 03/28/2014 | 11:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 03/28/2014 | 11:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 03/28/2014 | 11:50 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 03/28/2014 | 12:05 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 03/28/2014 | 12:20 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 03/28/2014 | 12:35 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 03/28/2014 | 12:50 | 0.0 |  | 0.0 |  | 0.0 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)

Serial Number:

015055

User ID: 000000001

Site ID: 00000371

Data Points: 10

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

Measurement Type:

Min(ppm)

Avg(ppm)

Max(ppm)

High Alarm Levels:

100.0

100.0

100.0

Low Alarm Levels:

5.0

5.0

5.0

| Line# | Date       | Time  | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------------|-------|----------|----------------|----------------|-------|
| 1     | 03/31/2014 | 13:14 | 0.0      | 0.0            | 0.0            | 0.0   |
| 2     | 03/31/2014 | 13:29 | 0.0      | 0.0            | 0.0            | 0.0   |
| 3     | 03/31/2014 | 13:44 | 0.0      | 0.0            | 0.0            | 0.0   |
| 4     | 03/31/2014 | 13:59 | 0.0      | 0.0            | 0.0            | 0.0   |
| 5     | 03/31/2014 | 14:14 | 0.0      | 0.0            | 0.0            | 0.0   |
| 6     | 03/31/2014 | 14:29 | 0.0      | 0.0            | 0.0            | 0.0   |
| 7     | 03/31/2014 | 14:44 | 0.0      | 0.0            | 0.0            | 0.0   |
| 8     | 03/31/2014 | 14:59 | 0.0      | 0.0            | 0.0            | 0.0   |
| 9     | 03/31/2014 | 15:14 | 0.0      | 0.0            | 0.0            | 0.0   |
| 10    | 03/31/2014 | 15:29 | 0.0      | 0.0            | 0.0            | 0.0   |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000147

Data Points: 16

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 03/31/2014 | 09:10 | 0.0 |  | 0.0 | 0.0 |
| 2  | 03/31/2014 | 09:25 | 0.0 |  | 0.0 | 0.0 |
| 3  | 03/31/2014 | 09:31 | 0.0 |  | 0.0 | 0.0 |
| 4  | 03/31/2014 | 13:05 | 0.0 |  | 0.0 | 0.0 |
| 5  | 03/31/2014 | 13:20 | 0.0 |  | 0.0 | 0.0 |
| 6  | 03/31/2014 | 13:35 | 0.0 |  | 0.0 | 0.0 |
| 7  | 03/31/2014 | 13:50 | 0.0 |  | 0.0 | 0.0 |
| 8  | 03/31/2014 | 14:05 | 0.0 |  | 0.0 | 0.0 |
| 9  | 03/31/2014 | 14:20 | 0.0 |  | 0.0 | 0.0 |
| 10 | 03/31/2014 | 14:35 | 0.0 |  | 0.0 | 0.0 |
| 11 | 03/31/2014 | 14:50 | 0.0 |  | 0.0 | 0.0 |
| 12 | 03/31/2014 | 15:05 | 0.0 |  | 0.0 | 0.0 |
| 13 | 03/31/2014 | 15:20 | 0.0 |  | 0.0 | 0.0 |
| 14 | 03/31/2014 | 15:35 | 0.0 |  | 0.0 | 0.0 |
| 15 | 03/31/2014 | 15:50 | 0.0 |  | 0.0 | 0.0 |
| 16 | 03/31/2014 | 15:55 | 0.0 |  | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000047

Data Points: 31

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/08/2014 09:11

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------|------|----------|----------------|----------------|-------|
|-------|------|------|----------|----------------|----------------|-------|

|    |            |       |     |     |     |  |
|----|------------|-------|-----|-----|-----|--|
| 1  | 04/01/2014 | 08:05 | 0.0 | 0.0 | 0.0 |  |
| 2  | 04/01/2014 | 08:20 | 0.0 | 0.0 | 0.0 |  |
| 3  | 04/01/2014 | 08:35 | 0.0 | 0.0 | 0.0 |  |
| 4  | 04/01/2014 | 08:50 | 0.0 | 0.0 | 0.0 |  |
| 5  | 04/01/2014 | 09:05 | 0.0 | 0.0 | 0.0 |  |
| 6  | 04/01/2014 | 09:20 | 0.0 | 0.0 | 0.0 |  |
| 7  | 04/01/2014 | 09:35 | 0.0 | 0.0 | 0.0 |  |
| 8  | 04/01/2014 | 09:50 | 0.0 | 0.0 | 0.0 |  |
| 9  | 04/01/2014 | 10:05 | 0.0 | 0.0 | 0.0 |  |
| 10 | 04/01/2014 | 10:20 | 0.0 | 0.0 | 0.0 |  |
| 11 | 04/01/2014 | 10:35 | 0.0 | 0.0 | 0.0 |  |
| 12 | 04/01/2014 | 10:50 | 0.0 | 0.0 | 0.0 |  |
| 13 | 04/01/2014 | 11:05 | 0.0 | 0.0 | 0.0 |  |
| 14 | 04/01/2014 | 11:20 | 0.0 | 0.0 | 0.0 |  |
| 15 | 04/01/2014 | 11:35 | 0.0 | 0.0 | 0.0 |  |
| 16 | 04/01/2014 | 11:50 | 0.0 | 0.0 | 0.0 |  |
| 17 | 04/01/2014 | 12:05 | 0.0 | 0.0 | 0.0 |  |
| 18 | 04/01/2014 | 12:20 | 0.0 | 0.0 | 0.0 |  |
| 19 | 04/01/2014 | 12:35 | 0.0 | 0.0 | 0.0 |  |
| 20 | 04/01/2014 | 12:50 | 0.0 | 0.0 | 0.0 |  |
| 21 | 04/01/2014 | 13:05 | 0.0 | 0.0 | 0.0 |  |
| 22 | 04/01/2014 | 13:20 | 0.0 | 0.0 | 0.0 |  |
| 23 | 04/01/2014 | 13:35 | 0.0 | 0.0 | 0.0 |  |
| 24 | 04/01/2014 | 13:50 | 0.0 | 0.0 | 0.0 |  |
| 25 | 04/01/2014 | 14:05 | 0.0 | 0.0 | 0.0 |  |
| 26 | 04/01/2014 | 14:20 | 0.0 | 0.0 | 0.0 |  |
| 27 | 04/01/2014 | 14:35 | 0.0 | 0.0 | 0.0 |  |
| 28 | 04/01/2014 | 14:50 | 0.0 | 0.0 | 0.0 |  |
| 29 | 04/01/2014 | 15:05 | 0.0 | 0.0 | 0.0 |  |
| 30 | 04/01/2014 | 15:20 | 0.0 | 0.0 | 0.0 |  |
| 31 | 04/01/2014 | 15:24 | 0.0 | 0.0 | 0.0 |  |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000500

Data Points: 35

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/07/2014 06:57

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm | Avg(ppm) | Alarm | Max(ppm) | Alarm |
|-------|------|------|----------|-------|----------|-------|----------|-------|
|-------|------|------|----------|-------|----------|-------|----------|-------|

|    |            |       |     |  |     |  |     |  |
|----|------------|-------|-----|--|-----|--|-----|--|
| 1  | 04/01/2014 | 08:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 2  | 04/01/2014 | 08:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 3  | 04/01/2014 | 08:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 4  | 04/01/2014 | 08:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 5  | 04/01/2014 | 09:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 6  | 04/01/2014 | 09:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 7  | 04/01/2014 | 09:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 8  | 04/01/2014 | 09:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 9  | 04/01/2014 | 10:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 10 | 04/01/2014 | 10:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 11 | 04/01/2014 | 10:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 12 | 04/01/2014 | 10:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 13 | 04/01/2014 | 11:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 14 | 04/01/2014 | 11:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 15 | 04/01/2014 | 11:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 16 | 04/01/2014 | 11:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 17 | 04/01/2014 | 12:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 18 | 04/01/2014 | 12:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 19 | 04/01/2014 | 12:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 20 | 04/01/2014 | 12:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 21 | 04/01/2014 | 13:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 22 | 04/01/2014 | 13:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 23 | 04/01/2014 | 13:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 24 | 04/01/2014 | 13:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 25 | 04/01/2014 | 14:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 26 | 04/01/2014 | 14:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 27 | 04/01/2014 | 14:30 | 0.0 |  | 0.0 |  | 0.0 |  |
| 28 | 04/01/2014 | 14:45 | 0.0 |  | 0.0 |  | 0.0 |  |
| 29 | 04/01/2014 | 15:00 | 0.0 |  | 0.0 |  | 0.0 |  |
| 30 | 04/01/2014 | 15:15 | 0.0 |  | 0.0 |  | 0.0 |  |
| 31 | 04/01/2014 | 15:30 | 0.0 |  | 0.0 |  | 0.0 |  |

|    |            |       |     |     |     |
|----|------------|-------|-----|-----|-----|
| 32 | 04/01/2014 | 15:45 | 0.0 | 0.0 | 0.0 |
| 33 | 04/01/2014 | 16:00 | 0.0 | 0.0 | 0.0 |
| 34 | 04/01/2014 | 16:15 | 0.0 | 0.0 | 0.0 |
| 35 | 04/01/2014 | 16:26 | 0.0 | 0.0 | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
015055

Serial Number:

User ID: 000000001

Site ID: 00000372

Data Points: 18

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 16:59

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
1  04/01/2014 08:37   0.0           0.0           0.0
2  04/01/2014 08:52   0.0           0.0           0.0
3  04/01/2014 09:07   0.0           0.0           0.0
4  04/01/2014 09:22   0.0           0.0           0.0
5  04/01/2014 09:37   0.0           0.0           0.0
6  04/01/2014 09:52   0.0           0.0           0.0

7  04/01/2014 12:10   0.0           0.0           0.0
8  04/01/2014 12:25   0.0           0.0           0.0
9  04/01/2014 12:40   0.0           0.0           0.0
10 04/01/2014 12:55   0.0           0.0           0.0
11 04/01/2014 13:10   0.0           0.0           0.0
12 04/01/2014 13:25   0.0           0.0           0.0
13 04/01/2014 13:40   0.0           0.0           0.0
14 04/01/2014 13:55   0.0           0.0           0.0
15 04/01/2014 14:10   0.0           0.0           0.0
16 04/01/2014 14:25   0.0           0.0           0.0
17 04/01/2014 14:40   0.0           0.0           0.0
18 04/01/2014 14:55   0.0           0.0           0.0

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
009407

Serial Number:

User ID: 000000001

Site ID: 00000150

Data Points: 23

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 03/10/2014 15:59

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |  |     |
|----|------------|-------|-----|--|-----|--|-----|
| 1  | 04/01/2014 | 08:25 | 0.0 |  | 0.0 |  | 0.0 |
| 2  | 04/01/2014 | 08:40 | 0.0 |  | 0.0 |  | 0.0 |
| 3  | 04/01/2014 | 08:55 | 0.0 |  | 0.0 |  | 0.0 |
| 4  | 04/01/2014 | 09:10 | 0.0 |  | 0.0 |  | 0.0 |
| 5  | 04/01/2014 | 09:25 | 0.0 |  | 0.0 |  | 0.0 |
| 6  | 04/01/2014 | 09:40 | 0.0 |  | 0.0 |  | 0.0 |
| 7  | 04/01/2014 | 09:55 | 0.0 |  | 0.0 |  | 0.0 |
| 8  | 04/01/2014 | 10:10 | 0.0 |  | 0.0 |  | 0.0 |
| 9  | 04/01/2014 | 10:18 | 0.0 |  | 0.0 |  | 0.0 |
| 10 | 04/01/2014 | 12:00 | 0.0 |  | 0.0 |  | 0.0 |
| 11 | 04/01/2014 | 12:15 | 0.0 |  | 0.0 |  | 0.0 |
| 12 | 04/01/2014 | 12:30 | 0.0 |  | 0.0 |  | 0.0 |
| 13 | 04/01/2014 | 12:45 | 0.0 |  | 0.0 |  | 0.0 |
| 14 | 04/01/2014 | 13:00 | 0.0 |  | 0.0 |  | 0.0 |
| 15 | 04/01/2014 | 13:15 | 0.0 |  | 0.0 |  | 0.0 |
| 16 | 04/01/2014 | 13:30 | 0.0 |  | 0.0 |  | 0.0 |
| 17 | 04/01/2014 | 13:45 | 0.0 |  | 0.0 |  | 0.0 |
| 18 | 04/01/2014 | 14:00 | 0.0 |  | 0.0 |  | 0.0 |
| 19 | 04/01/2014 | 14:15 | 0.0 |  | 0.0 |  | 0.0 |
| 20 | 04/01/2014 | 14:30 | 0.0 |  | 0.0 |  | 0.0 |
| 21 | 04/01/2014 | 14:45 | 0.0 |  | 0.0 |  | 0.0 |
| 22 | 04/01/2014 | 15:00 | 0.0 |  | 0.0 |  | 0.0 |
| 23 | 04/01/2014 | 15:15 | 0.0 |  | 0.0 |  | 0.0 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000048

Data Points: 27

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:39

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

```

1 04/02/2014 09:05 0.0           0.0           0.0
2 04/02/2014 09:20 0.0           0.0           0.0
3 04/02/2014 09:35 0.1           0.1           0.1
4 04/02/2014 09:50 0.2           0.2           0.5
5 04/02/2014 10:05 0.2           0.2           0.2
6 04/02/2014 10:20 0.2           0.2           0.2
7 04/02/2014 10:35 0.2           0.2           0.2
8 04/02/2014 10:50 0.3           0.3           0.4
9 04/02/2014 11:05 0.3           0.3           0.3
10 04/02/2014 11:20 0.3           0.3           0.3
11 04/02/2014 11:35 0.3           0.3           0.3
12 04/02/2014 11:50 0.3           0.3           0.3
13 04/02/2014 12:05 0.3           0.3           0.4
14 04/02/2014 12:20 0.3           0.3           0.4
15 04/02/2014 12:35 0.4           0.4           0.4
16 04/02/2014 12:50 0.3           0.3           0.4
17 04/02/2014 13:05 0.3           0.4           0.5
18 04/02/2014 13:20 0.3           0.4           0.5
19 04/02/2014 13:35 0.3           0.3           0.5
20 04/02/2014 13:50 0.3           0.3           0.4
21 04/02/2014 14:05 0.3           0.3           0.3
22 04/02/2014 14:20 0.3           0.3           0.3
23 04/02/2014 14:35 0.3           0.3           0.3
24 04/02/2014 14:50 0.3           0.3           0.3
25 04/02/2014 15:05 0.3           0.3           0.3
26 04/02/2014 15:20 0.3           0.3           0.3
27 04/02/2014 15:26 0.3           0.3           0.3

```

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000502

Data Points: 15

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:13

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------|------|----------|----------------|----------------|-------|
|-------|------|------|----------|----------------|----------------|-------|

|    |            |       |     |     |     |     |
|----|------------|-------|-----|-----|-----|-----|
| 1  | 04/02/2014 | 09:15 | 0.3 | 0.3 | 0.3 | 0.3 |
| 2  | 04/02/2014 | 09:30 | 0.3 | 0.3 | 0.4 | 0.4 |
| 3  | 04/02/2014 | 09:45 | 0.3 | 0.3 | 0.4 | 0.4 |
| 4  | 04/02/2014 | 10:00 | 0.3 | 0.3 | 0.4 | 0.4 |
| 5  | 04/02/2014 | 10:15 | 0.3 | 0.3 | 0.4 | 0.4 |
| 6  | 04/02/2014 | 10:30 | 0.3 | 0.3 | 0.4 | 0.4 |
| 7  | 04/02/2014 | 10:45 | 0.3 | 0.3 | 0.4 | 0.4 |
| 8  | 04/02/2014 | 11:00 | 0.4 | 0.4 | 0.4 | 0.4 |
| 9  | 04/02/2014 | 11:15 | 0.4 | 0.4 | 0.4 | 0.4 |
| 10 | 04/02/2014 | 11:30 | 0.4 | 0.4 | 0.5 | 0.5 |
| 11 | 04/02/2014 | 11:45 | 0.4 | 0.4 | 0.5 | 0.5 |
| 12 | 04/02/2014 | 12:00 | 0.5 | 0.5 | 0.5 | 0.5 |
| 13 | 04/02/2014 | 12:15 | 0.5 | 0.5 | 0.5 | 0.5 |
| 14 | 04/02/2014 | 12:30 | 0.5 | 0.5 | 0.6 | 0.6 |
| 15 | 04/02/2014 | 12:43 | 0.5 | 0.5 | 0.5 | 0.5 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 00000050

Data Points: 31

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:39

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |     |     |  |
|----|------------|-------|-----|-----|-----|--|
| 1  | 04/03/2014 | 09:30 | 0.1 | 0.1 | 0.1 |  |
| 2  | 04/03/2014 | 09:45 | 0.1 | 0.1 | 0.1 |  |
| 3  | 04/03/2014 | 10:00 | 0.1 | 0.1 | 0.3 |  |
| 4  | 04/03/2014 | 10:15 | 0.1 | 0.1 | 0.1 |  |
| 5  | 04/03/2014 | 10:30 | 0.1 | 0.1 | 0.1 |  |
| 6  | 04/03/2014 | 10:45 | 0.1 | 0.1 | 0.1 |  |
| 7  | 04/03/2014 | 11:00 | 0.1 | 0.1 | 0.1 |  |
| 8  | 04/03/2014 | 11:15 | 0.1 | 0.1 | 0.1 |  |
| 9  | 04/03/2014 | 11:30 | 0.1 | 0.1 | 0.1 |  |
| 10 | 04/03/2014 | 12:00 | 0.1 | 0.1 | 0.1 |  |
| 11 | 04/03/2014 | 12:15 | 0.1 | 0.1 | 0.1 |  |
| 12 | 04/03/2014 | 12:30 | 0.1 | 0.1 | 0.1 |  |
| 13 | 04/03/2014 | 12:45 | 0.0 | 0.0 | 0.1 |  |
| 14 | 04/03/2014 | 13:00 | 0.1 | 0.1 | 0.1 |  |
| 15 | 04/03/2014 | 13:15 | 0.1 | 0.1 | 0.1 |  |
| 16 | 04/03/2014 | 13:30 | 0.0 | 0.0 | 0.1 |  |
| 17 | 04/03/2014 | 13:45 | 0.0 | 0.0 | 0.1 |  |
| 18 | 04/03/2014 | 14:00 | 0.0 | 0.0 | 0.1 |  |
| 19 | 04/03/2014 | 14:15 | 0.1 | 0.1 | 0.4 |  |
| 20 | 04/03/2014 | 14:30 | 0.1 | 0.1 | 0.1 |  |
| 21 | 04/03/2014 | 14:45 | 0.0 | 0.0 | 0.1 |  |
| 22 | 04/03/2014 | 15:00 | 0.2 | 0.2 | 0.4 |  |
| 23 | 04/03/2014 | 15:15 | 0.1 | 0.1 | 0.2 |  |
| 24 | 04/03/2014 | 15:30 | 0.1 | 0.1 | 0.2 |  |
| 25 | 04/03/2014 | 15:45 | 0.1 | 0.1 | 0.2 |  |
| 26 | 04/03/2014 | 16:00 | 0.2 | 0.2 | 0.3 |  |
| 27 | 04/03/2014 | 16:15 | 0.2 | 0.2 | 0.3 |  |
| 28 | 04/03/2014 | 16:30 | 0.2 | 0.2 | 0.3 |  |
| 29 | 04/03/2014 | 16:45 | 0.2 | 0.2 | 0.2 |  |
| 30 | 04/03/2014 | 17:00 | 0.2 | 0.2 | 0.3 |  |
| 31 | 04/03/2014 | 17:12 | 0.2 | 0.3 | 0.4 |  |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000504

Data Points: 34

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:13

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
Max(ppm)
High Alarm Levels:           100.0             100.0
100.0
Low Alarm Levels:            5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 04/03/2014 09:10 0.1          0.2          0.4
2 04/03/2014 09:25 0.2          0.2          1.4
3 04/03/2014 09:40 0.2          0.2          0.2
4 04/03/2014 09:55 0.2          0.2          0.2
5 04/03/2014 10:10 0.1          0.1          0.2
6 04/03/2014 10:25 0.2          0.2          0.2
7 04/03/2014 10:40 0.1          0.1          0.1
8 04/03/2014 10:55 0.1          0.1          0.3
9 04/03/2014 11:10 0.0          0.0          0.1
10 04/03/2014 11:25 0.0          0.0          0.1
11 04/03/2014 11:40 0.0          0.0          0.0
12 04/03/2014 11:55 0.0          0.0          0.0
13 04/03/2014 12:10 0.0          0.0          0.0
14 04/03/2014 12:25 0.0          0.0          0.0
15 04/03/2014 12:40 0.0          0.0          0.1
16 04/03/2014 12:55 0.0          0.2          0.6
17 04/03/2014 13:10 0.0          0.0          0.0
18 04/03/2014 13:25 0.0          0.0          0.0
19 04/03/2014 13:40 0.0          0.0          0.0
20 04/03/2014 13:55 0.0          0.0          0.0
21 04/03/2014 14:10 0.0          0.0          0.0
22 04/03/2014 14:25 0.0          0.0          0.0
23 04/03/2014 14:40 0.0          0.0          0.0
24 04/03/2014 14:55 0.0          0.0          0.0
25 04/03/2014 15:10 0.0          0.0          0.0
26 04/03/2014 15:25 0.0          0.0          0.0
27 04/03/2014 15:40 0.0          0.0          0.0
28 04/03/2014 15:55 0.0          0.0          0.0
29 04/03/2014 16:10 0.0          0.0          0.0
30 04/03/2014 16:25 0.0          0.0          0.0
31 04/03/2014 16:40 0.0          0.0          0.1
=====
```

|    |            |       |     |     |     |
|----|------------|-------|-----|-----|-----|
| 32 | 04/03/2014 | 16:55 | 0.0 | 0.0 | 0.1 |
| 33 | 04/03/2014 | 17:10 | 0.1 | 0.1 | 0.4 |
| 34 | 04/03/2014 | 17:13 | 0.1 | 0.1 | 0.1 |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000051

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:39

```

=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:           5.0           5.0
5.0
=====

```

```

=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====

```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 04/04/2014 | 08:35 | 0.0 |  | 0.0 | 0.0 |
| 2  | 04/04/2014 | 08:50 | 0.0 |  | 0.0 | 0.0 |
| 3  | 04/04/2014 | 09:05 | 0.0 |  | 0.0 | 0.0 |
| 4  | 04/04/2014 | 09:20 | 0.0 |  | 0.0 | 0.1 |
| 5  | 04/04/2014 | 09:35 | 0.1 |  | 0.1 | 0.1 |
| 6  | 04/04/2014 | 09:50 | 0.1 |  | 0.1 | 0.2 |
| 7  | 04/04/2014 | 10:05 | 0.1 |  | 0.1 | 0.2 |
| 8  | 04/04/2014 | 10:20 | 0.1 |  | 0.1 | 0.2 |
| 9  | 04/04/2014 | 10:35 | 0.1 |  | 0.1 | 0.1 |
| 10 | 04/04/2014 | 10:50 | 0.1 |  | 0.1 | 0.2 |
| 11 | 04/04/2014 | 11:05 | 0.1 |  | 0.1 | 0.2 |
| 12 | 04/04/2014 | 11:20 | 0.1 |  | 0.1 | 0.1 |
| 13 | 04/04/2014 | 11:35 | 0.1 |  | 0.1 | 0.2 |
| 14 | 04/04/2014 | 11:50 | 0.1 |  | 0.1 | 0.1 |
| 15 | 04/04/2014 | 12:05 | 0.1 |  | 0.1 | 0.1 |
| 16 | 04/04/2014 | 12:20 | 0.0 |  | 0.0 | 0.1 |
| 17 | 04/04/2014 | 12:35 | 0.0 |  | 0.0 | 0.1 |
| 18 | 04/04/2014 | 12:50 | 0.1 |  | 0.2 | 1.0 |
| 19 | 04/04/2014 | 12:58 | 0.0 |  | 0.0 | 0.1 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000505

Data Points: 19

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:13

Measurement Type:  
Max(ppm)

Min(ppm)

Avg(ppm)

High Alarm Levels:  
100.0

100.0

100.0

Low Alarm Levels:  
5.0

5.0

5.0

| Line# | Date | Time | Min(ppm) | Alarm Avg(ppm) | Alarm Max(ppm) | Alarm |
|-------|------|------|----------|----------------|----------------|-------|
|-------|------|------|----------|----------------|----------------|-------|

|    |            |       |     |     |     |  |
|----|------------|-------|-----|-----|-----|--|
| 1  | 04/04/2014 | 08:35 | 0.0 | 0.0 | 0.0 |  |
| 2  | 04/04/2014 | 08:50 | 0.1 | 0.1 | 0.1 |  |
| 3  | 04/04/2014 | 09:05 | 0.2 | 0.2 | 0.2 |  |
| 4  | 04/04/2014 | 09:20 | 0.2 | 0.2 | 0.3 |  |
| 5  | 04/04/2014 | 09:35 | 0.4 | 0.4 | 0.4 |  |
| 6  | 04/04/2014 | 09:50 | 0.3 | 0.3 | 0.4 |  |
| 7  | 04/04/2014 | 10:05 | 0.3 | 0.3 | 0.5 |  |
| 8  | 04/04/2014 | 10:20 | 0.3 | 0.3 | 0.5 |  |
| 9  | 04/04/2014 | 10:35 | 0.3 | 0.3 | 0.4 |  |
| 10 | 04/04/2014 | 10:50 | 0.4 | 0.4 | 0.4 |  |
| 11 | 04/04/2014 | 11:05 | 0.4 | 0.4 | 0.5 |  |
| 12 | 04/04/2014 | 11:20 | 0.4 | 0.4 | 0.6 |  |
| 13 | 04/04/2014 | 11:35 | 0.4 | 0.4 | 0.6 |  |
| 14 | 04/04/2014 | 11:50 | 0.5 | 0.5 | 0.7 |  |
| 15 | 04/04/2014 | 12:05 | 0.5 | 0.5 | 0.9 |  |
| 16 | 04/04/2014 | 12:20 | 0.5 | 0.6 | 0.8 |  |
| 17 | 04/04/2014 | 12:35 | 0.5 | 0.5 | 0.7 |  |
| 18 | 04/04/2014 | 12:50 | 0.6 | 0.6 | 0.7 |  |
| 19 | 04/04/2014 | 12:57 | 0.6 | 0.6 | 0.7 |  |

UW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005683

Serial Number:

User ID: 000000001

Site ID: 000000052

Data Points: 23

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:39

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
      Max(ppm)
High Alarm Levels:           100.0           100.0
100.0
Low Alarm Levels:            5.0           5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

|    |            |       |     |  |     |     |
|----|------------|-------|-----|--|-----|-----|
| 1  | 04/07/2014 | 09:20 | 0.0 |  | 0.0 | 0.0 |
| 2  | 04/07/2014 | 09:35 | 0.0 |  | 0.0 | 0.0 |
| 3  | 04/07/2014 | 09:50 | 0.0 |  | 0.0 | 0.0 |
| 4  | 04/07/2014 | 10:05 | 0.0 |  | 0.0 | 0.0 |
| 5  | 04/07/2014 | 10:20 | 0.0 |  | 0.0 | 0.0 |
| 6  | 04/07/2014 | 10:35 | 0.0 |  | 0.0 | 0.0 |
| 7  | 04/07/2014 | 10:50 | 0.0 |  | 0.0 | 0.1 |
| 8  | 04/07/2014 | 11:05 | 0.0 |  | 0.0 | 0.1 |
| 9  | 04/07/2014 | 11:20 | 0.0 |  | 0.0 | 0.1 |
| 10 | 04/07/2014 | 11:35 | 0.0 |  | 0.0 | 0.1 |
| 11 | 04/07/2014 | 11:50 | 0.0 |  | 0.0 | 0.0 |
| 12 | 04/07/2014 | 12:05 | 0.0 |  | 0.0 | 0.0 |
| 13 | 04/07/2014 | 12:20 | 0.0 |  | 0.0 | 0.1 |
| 14 | 04/07/2014 | 12:35 | 0.1 |  | 0.1 | 0.3 |
| 15 | 04/07/2014 | 12:50 | 0.1 |  | 0.1 | 0.1 |
| 16 | 04/07/2014 | 13:05 | 0.1 |  | 0.1 | 0.2 |
| 17 | 04/07/2014 | 13:20 | 0.1 |  | 0.1 | 0.1 |
| 18 | 04/07/2014 | 13:35 | 0.1 |  | 0.1 | 0.1 |
| 19 | 04/07/2014 | 13:50 | 0.0 |  | 0.0 | 0.1 |
| 20 | 04/07/2014 | 14:05 | 0.0 |  | 0.0 | 0.1 |
| 21 | 04/07/2014 | 14:20 | 0.1 |  | 0.1 | 0.3 |
| 22 | 04/07/2014 | 14:35 | 0.1 |  | 0.1 | 0.1 |
| 23 | 04/07/2014 | 14:48 | 0.1 |  | 0.1 | 0.1 |

DW DRILLING

Instrument: MiniRAE 2000 (PGM7600)  
005750

Serial Number:

User ID: 000000001

Site ID: 00000506

Data Points: 24

Gas Name: Isobutylene

Sample

Period: 900 sec

Last Calibration Time: 04/02/2014 08:13

```
=====
Measurement Type:          Min(ppm)          Avg(ppm)
      Max(ppm)
High Alarm Levels:          100.0             100.0
100.0
Low Alarm Levels:           5.0               5.0
5.0
=====
```

```
=====
Line# Date   Time Min(ppm)   Alarm Avg(ppm)   Alarm Max(ppm)   Alarm
=====
```

```
=====
1 04/07/2014 08:55 0.0          0.0          0.2
2 04/07/2014 09:10 0.1          0.1          0.1
3 04/07/2014 09:25 0.1          0.1          0.1
4 04/07/2014 09:40 0.2          0.2          0.2
5 04/07/2014 09:55 0.2          0.2          0.2
6 04/07/2014 10:10 0.2          0.2          0.4
7 04/07/2014 10:25 0.2          0.3          0.6
8 04/07/2014 10:40 0.2          0.2          0.5
9 04/07/2014 10:55 0.2          0.2          0.2
10 04/07/2014 11:10 0.2          0.2          0.4
11 04/07/2014 11:25 0.2          0.2          0.4
12 04/07/2014 11:40 0.2          0.2          0.4
13 04/07/2014 11:55 0.2          0.2          0.4
14 04/07/2014 12:10 0.2          0.2          0.2
15 04/07/2014 12:25 0.2          0.3          0.5
16 04/07/2014 12:40 0.2          0.2          0.3
17 04/07/2014 12:55 0.2          0.2          0.2
18 04/07/2014 13:10 0.2          0.2          0.3
19 04/07/2014 13:25 0.2          0.2          0.4
20 04/07/2014 13:40 0.2          0.2          0.3
21 04/07/2014 13:55 0.2          0.2          0.3
22 04/07/2014 14:10 0.2          0.3          0.7
23 04/07/2014 14:25 0.2          0.2          0.2
24 04/07/2014 14:40 0.2          0.2          0.3
=====
```

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 03/13/2014  
Start Time: 11:16:16  
Duration (dd:hh:mm:ss): 0:03:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 15  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.010  
Minimum: 0.007  
Time of Minimum: 11:46:16  
Date of Minimum: 03/13/2014  
Maximum: 0.015  
Time of Maximum: 14:01:16  
Date of Maximum: 03/13/2014

Calibration Sensor: AEROSOL  
Cal. date 06/20/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/13/2014 | 11:31:16 | 0.013             |
| 03/13/2014 | 11:46:16 | 0.007             |
| 03/13/2014 | 12:01:16 | 0.008             |
| 03/13/2014 | 12:16:16 | 0.007             |
| 03/13/2014 | 12:31:16 | 0.008             |
| 03/13/2014 | 12:46:16 | 0.008             |
| 03/13/2014 | 13:01:16 | 0.009             |
| 03/13/2014 | 13:16:16 | 0.008             |
| 03/13/2014 | 13:31:16 | 0.008             |
| 03/13/2014 | 13:46:16 | 0.008             |
| 03/13/2014 | 14:01:16 | 0.015             |
| 03/13/2014 | 14:16:16 | 0.012             |
| 03/13/2014 | 14:31:16 | 0.012             |
| 03/13/2014 | 14:46:16 | 0.013             |
| 03/13/2014 | 15:01:16 | 0.011             |

## TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104409  
 Test ID: 001  
 Test Abbreviation: MANUAL\_001  
 Start Date: 03/13/2014  
 Start Time: 11:20:01  
 Duration (dd:hh:mm:ss): 0:03:45:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 15  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.040  
 Minimum: 0.010  
 Time of Minimum: 12:20:01  
 Date of Minimum: 03/13/2014  
 Maximum: 0.213  
 Time of Maximum: 15:05:01  
 Date of Maximum: 03/13/2014

Calibration Sensor: AEROSOL  
 Cal. date 03/07/2014

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/13/2014 | 11:35:01 | 0.011   |                   |
| 03/13/2014 | 11:50:01 | 0.011   |                   |
| 03/13/2014 | 12:05:01 | 0.011   |                   |
| 03/13/2014 | 12:20:01 | 0.010   |                   |
| 03/13/2014 | 12:35:01 | 0.010   |                   |
| 03/13/2014 | 12:50:01 | 0.010   |                   |
| 03/13/2014 | 13:05:01 | 0.011   |                   |
| 03/13/2014 | 13:20:01 | 0.010   |                   |
| 03/13/2014 | 13:35:01 | 0.011   |                   |
| 03/13/2014 | 13:50:01 | 0.160   |                   |
| 03/13/2014 | 14:05:01 | 0.045   |                   |
| 03/13/2014 | 14:20:01 | 0.031   |                   |
| 03/13/2014 | 14:35:01 | 0.032   |                   |
| 03/13/2014 | 14:50:01 | 0.030   |                   |
| 03/13/2014 | 15:05:01 | 0.213   |                   |

DT R11497 031414 UW HCLEAR  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 03/14/2014  
Start Time: 08:26:07  
Duration (dd:hh:mm:ss): 0:01:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 6  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.017  
Minimum: 0.016  
Time of Minimum: 08:41:07  
Date of Minimum: 03/14/2014  
Maximum: 0.018  
Time of Maximum: 09:41:07  
Date of Maximum: 03/14/2014

Calibration Sensor: AEROSOL  
Cal. date 06/20/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/14/2014 | 08:41:07 | 0.016             |
| 03/14/2014 | 08:56:07 | 0.017             |
| 03/14/2014 | 09:11:07 | 0.016             |
| 03/14/2014 | 09:26:07 | 0.017             |
| 03/14/2014 | 09:41:07 | 0.018             |
| 03/14/2014 | 09:56:07 | 0.017             |

DT R11550 031414 DW HCLEAR  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 03/14/2014  
Start Time: 09:00:53  
Duration (dd:hh:mm:ss): 0:01:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 4  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.022  
Minimum: 0.020  
Time of Minimum: 10:00:53  
Date of Minimum: 03/14/2014  
Maximum: 0.024  
Time of Maximum: 09:30:53  
Date of Maximum: 03/14/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/14/2014 | 09:15:53 | 0.022   |                   |
| 03/14/2014 | 09:30:53 | 0.024   |                   |
| 03/14/2014 | 09:45:53 | 0.022   |                   |
| 03/14/2014 | 10:00:53 | 0.020   |                   |

DT R11553 031414 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 03/14/2014  
Start Time: 08:48:55  
Duration (dd:hh:mm:ss): 0:04:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 19  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.018  
Minimum: 0.013  
Time of Minimum: 09:03:55  
Date of Minimum: 03/14/2014  
Maximum: 0.028  
Time of Maximum: 11:03:55  
Date of Maximum: 03/14/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/14/2014 | 09:03:55 | 0.013             |
| 03/14/2014 | 09:18:55 | 0.017             |
| 03/14/2014 | 09:33:55 | 0.013             |
| 03/14/2014 | 09:48:55 | 0.013             |
| 03/14/2014 | 10:03:55 | 0.014             |
| 03/14/2014 | 10:18:55 | 0.014             |
| 03/14/2014 | 10:33:55 | 0.014             |
| 03/14/2014 | 10:48:55 | 0.016             |
| 03/14/2014 | 11:03:55 | 0.028             |
| 03/14/2014 | 11:18:55 | 0.019             |
| 03/14/2014 | 11:33:55 | 0.020             |
| 03/14/2014 | 11:48:55 | 0.019             |
| 03/14/2014 | 12:03:55 | 0.019             |
| 03/14/2014 | 12:18:55 | 0.021             |
| 03/14/2014 | 12:33:55 | 0.023             |
| 03/14/2014 | 12:48:55 | 0.022             |
| 03/14/2014 | 13:03:55 | 0.018             |
| 03/14/2014 | 13:18:55 | 0.021             |
| 03/14/2014 | 13:33:55 | 0.018             |

TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530103505  
 Test ID: 001  
 Test Abbreviation: TEST 1\_001  
 Start Date: 03/17/2014  
 Start Time: 09:10:23  
 Duration (dd:hh:mm:ss): 0:01:00:00  
 Log Interval (mm:ss): 00:15  
 Number of points: 240  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.049  
 Minimum: 0.043  
 Time of Minimum: 09:10:38  
 Date of Minimum: 03/17/2014  
 Maximum: 0.116  
 Time of Maximum: 10:02:38  
 Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
 Cal. date 02/20/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/17/2014 | 09:10:38 |         | 0.043             |
| 03/17/2014 | 09:10:53 |         | 0.051             |
| 03/17/2014 | 09:11:08 |         | 0.047             |
| 03/17/2014 | 09:11:23 |         | 0.047             |
| 03/17/2014 | 09:11:38 |         | 0.048             |
| 03/17/2014 | 09:11:53 |         | 0.046             |
| 03/17/2014 | 09:12:08 |         | 0.046             |
| 03/17/2014 | 09:12:23 |         | 0.045             |
| 03/17/2014 | 09:12:38 |         | 0.045             |
| 03/17/2014 | 09:12:53 |         | 0.045             |
| 03/17/2014 | 09:13:08 |         | 0.048             |
| 03/17/2014 | 09:13:23 |         | 0.046             |
| 03/17/2014 | 09:13:38 |         | 0.047             |
| 03/17/2014 | 09:13:53 |         | 0.047             |
| 03/17/2014 | 09:14:08 |         | 0.048             |
| 03/17/2014 | 09:14:23 |         | 0.046             |
| 03/17/2014 | 09:14:38 |         | 0.048             |
| 03/17/2014 | 09:14:53 |         | 0.049             |
| 03/17/2014 | 09:15:08 |         | 0.051             |
| 03/17/2014 | 09:15:23 |         | 0.048             |
| 03/17/2014 | 09:15:38 |         | 0.047             |
| 03/17/2014 | 09:15:53 |         | 0.047             |
| 03/17/2014 | 09:16:08 |         | 0.047             |
| 03/17/2014 | 09:16:23 |         | 0.045             |
| 03/17/2014 | 09:16:38 |         | 0.046             |
| 03/17/2014 | 09:16:53 |         | 0.046             |
| 03/17/2014 | 09:17:08 |         | 0.046             |
| 03/17/2014 | 09:17:23 |         | 0.058             |
| 03/17/2014 | 09:17:38 |         | 0.064             |
| 03/17/2014 | 09:17:53 |         | 0.046             |
| 03/17/2014 | 09:18:08 |         | 0.045             |
| 03/17/2014 | 09:18:23 |         | 0.046             |
| 03/17/2014 | 09:18:38 |         | 0.047             |
| 03/17/2014 | 09:18:53 |         | 0.045             |

DT 014404 031714 UW DRILLINGT1

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 09:19:08 | 0.045 |
| 03/17/2014 | 09:19:23 | 0.045 |
| 03/17/2014 | 09:19:38 | 0.045 |
| 03/17/2014 | 09:19:53 | 0.046 |
| 03/17/2014 | 09:20:08 | 0.045 |
| 03/17/2014 | 09:20:23 | 0.045 |
| 03/17/2014 | 09:20:38 | 0.046 |
| 03/17/2014 | 09:20:53 | 0.046 |
| 03/17/2014 | 09:21:08 | 0.046 |
| 03/17/2014 | 09:21:23 | 0.046 |
| 03/17/2014 | 09:21:38 | 0.046 |
| 03/17/2014 | 09:21:53 | 0.047 |
| 03/17/2014 | 09:22:08 | 0.047 |
| 03/17/2014 | 09:22:23 | 0.047 |
| 03/17/2014 | 09:22:38 | 0.047 |
| 03/17/2014 | 09:22:53 | 0.046 |
| 03/17/2014 | 09:23:08 | 0.051 |
| 03/17/2014 | 09:23:23 | 0.050 |
| 03/17/2014 | 09:23:38 | 0.046 |
| 03/17/2014 | 09:23:53 | 0.047 |
| 03/17/2014 | 09:24:08 | 0.047 |
| 03/17/2014 | 09:24:23 | 0.046 |
| 03/17/2014 | 09:24:38 | 0.048 |
| 03/17/2014 | 09:24:53 | 0.047 |
| 03/17/2014 | 09:25:08 | 0.046 |
| 03/17/2014 | 09:25:23 | 0.046 |
| 03/17/2014 | 09:25:38 | 0.046 |
| 03/17/2014 | 09:25:53 | 0.046 |
| 03/17/2014 | 09:26:08 | 0.046 |
| 03/17/2014 | 09:26:23 | 0.047 |
| 03/17/2014 | 09:26:38 | 0.047 |
| 03/17/2014 | 09:26:53 | 0.047 |
| 03/17/2014 | 09:27:08 | 0.046 |
| 03/17/2014 | 09:27:23 | 0.048 |
| 03/17/2014 | 09:27:38 | 0.046 |
| 03/17/2014 | 09:27:53 | 0.046 |
| 03/17/2014 | 09:28:08 | 0.045 |
| 03/17/2014 | 09:28:23 | 0.045 |
| 03/17/2014 | 09:28:38 | 0.045 |
| 03/17/2014 | 09:28:53 | 0.045 |
| 03/17/2014 | 09:29:08 | 0.046 |
| 03/17/2014 | 09:29:23 | 0.045 |
| 03/17/2014 | 09:29:38 | 0.047 |
| 03/17/2014 | 09:29:53 | 0.049 |
| 03/17/2014 | 09:30:08 | 0.047 |
| 03/17/2014 | 09:30:23 | 0.047 |
| 03/17/2014 | 09:30:38 | 0.047 |
| 03/17/2014 | 09:30:53 | 0.049 |
| 03/17/2014 | 09:31:08 | 0.047 |
| 03/17/2014 | 09:31:23 | 0.047 |
| 03/17/2014 | 09:31:38 | 0.048 |
| 03/17/2014 | 09:31:53 | 0.047 |
| 03/17/2014 | 09:32:08 | 0.048 |
| 03/17/2014 | 09:32:23 | 0.051 |
| 03/17/2014 | 09:32:38 | 0.060 |
| 03/17/2014 | 09:32:53 | 0.050 |
| 03/17/2014 | 09:33:08 | 0.062 |
| 03/17/2014 | 09:33:23 | 0.053 |
| 03/17/2014 | 09:33:38 | 0.052 |
| 03/17/2014 | 09:33:53 | 0.052 |
| 03/17/2014 | 09:34:08 | 0.049 |
| 03/17/2014 | 09:34:23 | 0.049 |
| 03/17/2014 | 09:34:38 | 0.049 |

## DT 014404 031714 UW DRILLINGT1

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 09:34:53 | 0.048 |
| 03/17/2014 | 09:35:08 | 0.049 |
| 03/17/2014 | 09:35:23 | 0.048 |
| 03/17/2014 | 09:35:38 | 0.047 |
| 03/17/2014 | 09:35:53 | 0.046 |
| 03/17/2014 | 09:36:08 | 0.046 |
| 03/17/2014 | 09:36:23 | 0.049 |
| 03/17/2014 | 09:36:38 | 0.052 |
| 03/17/2014 | 09:36:53 | 0.051 |
| 03/17/2014 | 09:37:08 | 0.047 |
| 03/17/2014 | 09:37:23 | 0.047 |
| 03/17/2014 | 09:37:38 | 0.048 |
| 03/17/2014 | 09:37:53 | 0.047 |
| 03/17/2014 | 09:38:08 | 0.046 |
| 03/17/2014 | 09:38:23 | 0.046 |
| 03/17/2014 | 09:38:38 | 0.046 |
| 03/17/2014 | 09:38:53 | 0.046 |
| 03/17/2014 | 09:39:08 | 0.046 |
| 03/17/2014 | 09:39:23 | 0.047 |
| 03/17/2014 | 09:39:38 | 0.050 |
| 03/17/2014 | 09:39:53 | 0.047 |
| 03/17/2014 | 09:40:08 | 0.049 |
| 03/17/2014 | 09:40:23 | 0.047 |
| 03/17/2014 | 09:40:38 | 0.046 |
| 03/17/2014 | 09:40:53 | 0.046 |
| 03/17/2014 | 09:41:08 | 0.047 |
| 03/17/2014 | 09:41:23 | 0.048 |
| 03/17/2014 | 09:41:38 | 0.047 |
| 03/17/2014 | 09:41:53 | 0.046 |
| 03/17/2014 | 09:42:08 | 0.046 |
| 03/17/2014 | 09:42:23 | 0.046 |
| 03/17/2014 | 09:42:38 | 0.047 |
| 03/17/2014 | 09:42:53 | 0.047 |
| 03/17/2014 | 09:43:08 | 0.046 |
| 03/17/2014 | 09:43:23 | 0.046 |
| 03/17/2014 | 09:43:38 | 0.047 |
| 03/17/2014 | 09:43:53 | 0.047 |
| 03/17/2014 | 09:44:08 | 0.047 |
| 03/17/2014 | 09:44:23 | 0.048 |
| 03/17/2014 | 09:44:38 | 0.048 |
| 03/17/2014 | 09:44:53 | 0.050 |
| 03/17/2014 | 09:45:08 | 0.048 |
| 03/17/2014 | 09:45:23 | 0.077 |
| 03/17/2014 | 09:45:38 | 0.052 |
| 03/17/2014 | 09:45:53 | 0.050 |
| 03/17/2014 | 09:46:08 | 0.049 |
| 03/17/2014 | 09:46:23 | 0.050 |
| 03/17/2014 | 09:46:38 | 0.049 |
| 03/17/2014 | 09:46:53 | 0.053 |
| 03/17/2014 | 09:47:08 | 0.051 |
| 03/17/2014 | 09:47:23 | 0.049 |
| 03/17/2014 | 09:47:38 | 0.049 |
| 03/17/2014 | 09:47:53 | 0.048 |
| 03/17/2014 | 09:48:08 | 0.047 |
| 03/17/2014 | 09:48:23 | 0.047 |
| 03/17/2014 | 09:48:38 | 0.048 |
| 03/17/2014 | 09:48:53 | 0.047 |
| 03/17/2014 | 09:49:08 | 0.047 |
| 03/17/2014 | 09:49:23 | 0.088 |
| 03/17/2014 | 09:49:38 | 0.046 |
| 03/17/2014 | 09:49:53 | 0.046 |
| 03/17/2014 | 09:50:08 | 0.047 |
| 03/17/2014 | 09:50:23 | 0.046 |

DT 014404 031714 UW DRILLINGT1

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 09:50:38 | 0.048 |
| 03/17/2014 | 09:50:53 | 0.048 |
| 03/17/2014 | 09:51:08 | 0.046 |
| 03/17/2014 | 09:51:23 | 0.047 |
| 03/17/2014 | 09:51:38 | 0.047 |
| 03/17/2014 | 09:51:53 | 0.046 |
| 03/17/2014 | 09:52:08 | 0.047 |
| 03/17/2014 | 09:52:23 | 0.047 |
| 03/17/2014 | 09:52:38 | 0.048 |
| 03/17/2014 | 09:52:53 | 0.047 |
| 03/17/2014 | 09:53:08 | 0.048 |
| 03/17/2014 | 09:53:23 | 0.047 |
| 03/17/2014 | 09:53:38 | 0.071 |
| 03/17/2014 | 09:53:53 | 0.050 |
| 03/17/2014 | 09:54:08 | 0.049 |
| 03/17/2014 | 09:54:23 | 0.047 |
| 03/17/2014 | 09:54:38 | 0.048 |
| 03/17/2014 | 09:54:53 | 0.052 |
| 03/17/2014 | 09:55:08 | 0.048 |
| 03/17/2014 | 09:55:23 | 0.048 |
| 03/17/2014 | 09:55:38 | 0.047 |
| 03/17/2014 | 09:55:53 | 0.047 |
| 03/17/2014 | 09:56:08 | 0.047 |
| 03/17/2014 | 09:56:23 | 0.049 |
| 03/17/2014 | 09:56:38 | 0.048 |
| 03/17/2014 | 09:56:53 | 0.047 |
| 03/17/2014 | 09:57:08 | 0.047 |
| 03/17/2014 | 09:57:23 | 0.047 |
| 03/17/2014 | 09:57:38 | 0.047 |
| 03/17/2014 | 09:57:53 | 0.050 |
| 03/17/2014 | 09:58:08 | 0.052 |
| 03/17/2014 | 09:58:23 | 0.055 |
| 03/17/2014 | 09:58:38 | 0.051 |
| 03/17/2014 | 09:58:53 | 0.048 |
| 03/17/2014 | 09:59:08 | 0.068 |
| 03/17/2014 | 09:59:23 | 0.051 |
| 03/17/2014 | 09:59:38 | 0.049 |
| 03/17/2014 | 09:59:53 | 0.047 |
| 03/17/2014 | 10:00:08 | 0.049 |
| 03/17/2014 | 10:00:23 | 0.051 |
| 03/17/2014 | 10:00:38 | 0.048 |
| 03/17/2014 | 10:00:53 | 0.046 |
| 03/17/2014 | 10:01:08 | 0.046 |
| 03/17/2014 | 10:01:23 | 0.046 |
| 03/17/2014 | 10:01:38 | 0.048 |
| 03/17/2014 | 10:01:53 | 0.048 |
| 03/17/2014 | 10:02:08 | 0.050 |
| 03/17/2014 | 10:02:23 | 0.048 |
| 03/17/2014 | 10:02:38 | 0.116 |
| 03/17/2014 | 10:02:53 | 0.049 |
| 03/17/2014 | 10:03:08 | 0.048 |
| 03/17/2014 | 10:03:23 | 0.049 |
| 03/17/2014 | 10:03:38 | 0.046 |
| 03/17/2014 | 10:03:53 | 0.047 |
| 03/17/2014 | 10:04:08 | 0.046 |
| 03/17/2014 | 10:04:23 | 0.047 |
| 03/17/2014 | 10:04:38 | 0.047 |
| 03/17/2014 | 10:04:53 | 0.047 |
| 03/17/2014 | 10:05:08 | 0.046 |
| 03/17/2014 | 10:05:23 | 0.046 |
| 03/17/2014 | 10:05:38 | 0.045 |
| 03/17/2014 | 10:05:53 | 0.050 |
| 03/17/2014 | 10:06:08 | 0.047 |

DT 014404 031714 UW DRILLINGT1

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 10:06:23 | 0.046 |
| 03/17/2014 | 10:06:38 | 0.046 |
| 03/17/2014 | 10:06:53 | 0.046 |
| 03/17/2014 | 10:07:08 | 0.068 |
| 03/17/2014 | 10:07:23 | 0.048 |
| 03/17/2014 | 10:07:38 | 0.046 |
| 03/17/2014 | 10:07:53 | 0.047 |
| 03/17/2014 | 10:08:08 | 0.046 |
| 03/17/2014 | 10:08:23 | 0.049 |
| 03/17/2014 | 10:08:38 | 0.048 |
| 03/17/2014 | 10:08:53 | 0.061 |
| 03/17/2014 | 10:09:08 | 0.051 |
| 03/17/2014 | 10:09:23 | 0.052 |
| 03/17/2014 | 10:09:38 | 0.052 |
| 03/17/2014 | 10:09:53 | 0.054 |
| 03/17/2014 | 10:10:08 | 0.052 |
| 03/17/2014 | 10:10:23 | 0.063 |

TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530103505  
 Test ID: 002  
 Test Abbreviation: TEST 1\_002  
 Start Date: 03/17/2014  
 Start Time: 12:30:35  
 Duration (dd:hh:mm:ss): 0:01:00:00  
 Log Interval (mm:ss): 00:15  
 Number of points: 240  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.052  
 Minimum: 0.045  
 Time of Minimum: 12:31:05  
 Date of Minimum: 03/17/2014  
 Maximum: 0.285  
 Time of Maximum: 12:33:20  
 Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
 Cal. date 02/20/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/17/2014 | 12:30:50 |         | 0.046             |
| 03/17/2014 | 12:31:05 |         | 0.045             |
| 03/17/2014 | 12:31:20 |         | 0.046             |
| 03/17/2014 | 12:31:35 |         | 0.056             |
| 03/17/2014 | 12:31:50 |         | 0.048             |
| 03/17/2014 | 12:32:05 |         | 0.047             |
| 03/17/2014 | 12:32:20 |         | 0.050             |
| 03/17/2014 | 12:32:35 |         | 0.049             |
| 03/17/2014 | 12:32:50 |         | 0.047             |
| 03/17/2014 | 12:33:05 |         | 0.047             |
| 03/17/2014 | 12:33:20 |         | 0.285             |
| 03/17/2014 | 12:33:35 |         | 0.048             |
| 03/17/2014 | 12:33:50 |         | 0.049             |
| 03/17/2014 | 12:34:05 |         | 0.049             |
| 03/17/2014 | 12:34:20 |         | 0.050             |
| 03/17/2014 | 12:34:35 |         | 0.048             |
| 03/17/2014 | 12:34:50 |         | 0.048             |
| 03/17/2014 | 12:35:05 |         | 0.048             |
| 03/17/2014 | 12:35:20 |         | 0.048             |
| 03/17/2014 | 12:35:35 |         | 0.047             |
| 03/17/2014 | 12:35:50 |         | 0.047             |
| 03/17/2014 | 12:36:05 |         | 0.047             |
| 03/17/2014 | 12:36:20 |         | 0.047             |
| 03/17/2014 | 12:36:35 |         | 0.048             |
| 03/17/2014 | 12:36:50 |         | 0.047             |
| 03/17/2014 | 12:37:05 |         | 0.047             |
| 03/17/2014 | 12:37:20 |         | 0.047             |
| 03/17/2014 | 12:37:35 |         | 0.047             |
| 03/17/2014 | 12:37:50 |         | 0.048             |
| 03/17/2014 | 12:38:05 |         | 0.049             |
| 03/17/2014 | 12:38:20 |         | 0.048             |
| 03/17/2014 | 12:38:35 |         | 0.049             |
| 03/17/2014 | 12:38:50 |         | 0.049             |
| 03/17/2014 | 12:39:05 |         | 0.048             |

## DT 014404 031714 UW DRILLINGT2

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 12:39:20 | 0.047 |
| 03/17/2014 | 12:39:35 | 0.050 |
| 03/17/2014 | 12:39:50 | 0.048 |
| 03/17/2014 | 12:40:05 | 0.047 |
| 03/17/2014 | 12:40:20 | 0.047 |
| 03/17/2014 | 12:40:35 | 0.047 |
| 03/17/2014 | 12:40:50 | 0.047 |
| 03/17/2014 | 12:41:05 | 0.048 |
| 03/17/2014 | 12:41:20 | 0.048 |
| 03/17/2014 | 12:41:35 | 0.048 |
| 03/17/2014 | 12:41:50 | 0.049 |
| 03/17/2014 | 12:42:05 | 0.049 |
| 03/17/2014 | 12:42:20 | 0.048 |
| 03/17/2014 | 12:42:35 | 0.048 |
| 03/17/2014 | 12:42:50 | 0.048 |
| 03/17/2014 | 12:43:05 | 0.050 |
| 03/17/2014 | 12:43:20 | 0.048 |
| 03/17/2014 | 12:43:35 | 0.048 |
| 03/17/2014 | 12:43:50 | 0.048 |
| 03/17/2014 | 12:44:05 | 0.049 |
| 03/17/2014 | 12:44:20 | 0.048 |
| 03/17/2014 | 12:44:35 | 0.047 |
| 03/17/2014 | 12:44:50 | 0.047 |
| 03/17/2014 | 12:45:05 | 0.047 |
| 03/17/2014 | 12:45:20 | 0.047 |
| 03/17/2014 | 12:45:35 | 0.048 |
| 03/17/2014 | 12:45:50 | 0.047 |
| 03/17/2014 | 12:46:05 | 0.048 |
| 03/17/2014 | 12:46:20 | 0.047 |
| 03/17/2014 | 12:46:35 | 0.048 |
| 03/17/2014 | 12:46:50 | 0.047 |
| 03/17/2014 | 12:47:05 | 0.047 |
| 03/17/2014 | 12:47:20 | 0.047 |
| 03/17/2014 | 12:47:35 | 0.048 |
| 03/17/2014 | 12:47:50 | 0.048 |
| 03/17/2014 | 12:48:05 | 0.048 |
| 03/17/2014 | 12:48:20 | 0.048 |
| 03/17/2014 | 12:48:35 | 0.048 |
| 03/17/2014 | 12:48:50 | 0.048 |
| 03/17/2014 | 12:49:05 | 0.048 |
| 03/17/2014 | 12:49:20 | 0.048 |
| 03/17/2014 | 12:49:35 | 0.048 |
| 03/17/2014 | 12:49:50 | 0.048 |
| 03/17/2014 | 12:50:05 | 0.048 |
| 03/17/2014 | 12:50:20 | 0.048 |
| 03/17/2014 | 12:50:35 | 0.048 |
| 03/17/2014 | 12:50:50 | 0.048 |
| 03/17/2014 | 12:51:05 | 0.048 |
| 03/17/2014 | 12:51:20 | 0.048 |
| 03/17/2014 | 12:51:35 | 0.047 |
| 03/17/2014 | 12:51:50 | 0.056 |
| 03/17/2014 | 12:52:05 | 0.071 |
| 03/17/2014 | 12:52:20 | 0.054 |
| 03/17/2014 | 12:52:35 | 0.049 |
| 03/17/2014 | 12:52:50 | 0.052 |
| 03/17/2014 | 12:53:05 | 0.051 |
| 03/17/2014 | 12:53:20 | 0.052 |
| 03/17/2014 | 12:53:35 | 0.064 |
| 03/17/2014 | 12:53:50 | 0.053 |
| 03/17/2014 | 12:54:05 | 0.054 |
| 03/17/2014 | 12:54:20 | 0.053 |
| 03/17/2014 | 12:54:35 | 0.052 |
| 03/17/2014 | 12:54:50 | 0.059 |

## DT 014404 031714 UW DRILLINGT2

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 12:55:05 | 0.056 |
| 03/17/2014 | 12:55:20 | 0.067 |
| 03/17/2014 | 12:55:35 | 0.065 |
| 03/17/2014 | 12:55:50 | 0.054 |
| 03/17/2014 | 12:56:05 | 0.050 |
| 03/17/2014 | 12:56:20 | 0.050 |
| 03/17/2014 | 12:56:35 | 0.050 |
| 03/17/2014 | 12:56:50 | 0.049 |
| 03/17/2014 | 12:57:05 | 0.050 |
| 03/17/2014 | 12:57:20 | 0.050 |
| 03/17/2014 | 12:57:35 | 0.049 |
| 03/17/2014 | 12:57:50 | 0.048 |
| 03/17/2014 | 12:58:05 | 0.045 |
| 03/17/2014 | 12:58:20 | 0.047 |
| 03/17/2014 | 12:58:35 | 0.048 |
| 03/17/2014 | 12:58:50 | 0.052 |
| 03/17/2014 | 12:59:05 | 0.059 |
| 03/17/2014 | 12:59:20 | 0.048 |
| 03/17/2014 | 12:59:35 | 0.049 |
| 03/17/2014 | 12:59:50 | 0.055 |
| 03/17/2014 | 13:00:05 | 0.060 |
| 03/17/2014 | 13:00:20 | 0.066 |
| 03/17/2014 | 13:00:35 | 0.055 |
| 03/17/2014 | 13:00:50 | 0.053 |
| 03/17/2014 | 13:01:05 | 0.053 |
| 03/17/2014 | 13:01:20 | 0.048 |
| 03/17/2014 | 13:01:35 | 0.047 |
| 03/17/2014 | 13:01:50 | 0.049 |
| 03/17/2014 | 13:02:05 | 0.049 |
| 03/17/2014 | 13:02:20 | 0.053 |
| 03/17/2014 | 13:02:35 | 0.053 |
| 03/17/2014 | 13:02:50 | 0.053 |
| 03/17/2014 | 13:03:05 | 0.052 |
| 03/17/2014 | 13:03:20 | 0.077 |
| 03/17/2014 | 13:03:35 | 0.053 |
| 03/17/2014 | 13:03:50 | 0.053 |
| 03/17/2014 | 13:04:05 | 0.054 |
| 03/17/2014 | 13:04:20 | 0.054 |
| 03/17/2014 | 13:04:35 | 0.050 |
| 03/17/2014 | 13:04:50 | 0.050 |
| 03/17/2014 | 13:05:05 | 0.050 |
| 03/17/2014 | 13:05:20 | 0.049 |
| 03/17/2014 | 13:05:35 | 0.048 |
| 03/17/2014 | 13:05:50 | 0.049 |
| 03/17/2014 | 13:06:05 | 0.048 |
| 03/17/2014 | 13:06:20 | 0.047 |
| 03/17/2014 | 13:06:35 | 0.047 |
| 03/17/2014 | 13:06:50 | 0.049 |
| 03/17/2014 | 13:07:05 | 0.048 |
| 03/17/2014 | 13:07:20 | 0.048 |
| 03/17/2014 | 13:07:35 | 0.049 |
| 03/17/2014 | 13:07:50 | 0.049 |
| 03/17/2014 | 13:08:05 | 0.049 |
| 03/17/2014 | 13:08:20 | 0.048 |
| 03/17/2014 | 13:08:35 | 0.053 |
| 03/17/2014 | 13:08:50 | 0.050 |
| 03/17/2014 | 13:09:05 | 0.048 |
| 03/17/2014 | 13:09:20 | 0.049 |
| 03/17/2014 | 13:09:35 | 0.049 |
| 03/17/2014 | 13:09:50 | 0.049 |
| 03/17/2014 | 13:10:05 | 0.049 |
| 03/17/2014 | 13:10:20 | 0.047 |
| 03/17/2014 | 13:10:35 | 0.046 |

## DT 014404 031714 UW DRILLINGT2

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 13:10:50 | 0.047 |
| 03/17/2014 | 13:11:05 | 0.046 |
| 03/17/2014 | 13:11:20 | 0.048 |
| 03/17/2014 | 13:11:35 | 0.047 |
| 03/17/2014 | 13:11:50 | 0.047 |
| 03/17/2014 | 13:12:05 | 0.046 |
| 03/17/2014 | 13:12:20 | 0.047 |
| 03/17/2014 | 13:12:35 | 0.046 |
| 03/17/2014 | 13:12:50 | 0.048 |
| 03/17/2014 | 13:13:05 | 0.048 |
| 03/17/2014 | 13:13:20 | 0.050 |
| 03/17/2014 | 13:13:35 | 0.067 |
| 03/17/2014 | 13:13:50 | 0.056 |
| 03/17/2014 | 13:14:05 | 0.055 |
| 03/17/2014 | 13:14:20 | 0.054 |
| 03/17/2014 | 13:14:35 | 0.050 |
| 03/17/2014 | 13:14:50 | 0.050 |
| 03/17/2014 | 13:15:05 | 0.051 |
| 03/17/2014 | 13:15:20 | 0.051 |
| 03/17/2014 | 13:15:35 | 0.052 |
| 03/17/2014 | 13:15:50 | 0.052 |
| 03/17/2014 | 13:16:05 | 0.051 |
| 03/17/2014 | 13:16:20 | 0.049 |
| 03/17/2014 | 13:16:35 | 0.049 |
| 03/17/2014 | 13:16:50 | 0.051 |
| 03/17/2014 | 13:17:05 | 0.051 |
| 03/17/2014 | 13:17:20 | 0.051 |
| 03/17/2014 | 13:17:35 | 0.053 |
| 03/17/2014 | 13:17:50 | 0.049 |
| 03/17/2014 | 13:18:05 | 0.049 |
| 03/17/2014 | 13:18:20 | 0.049 |
| 03/17/2014 | 13:18:35 | 0.048 |
| 03/17/2014 | 13:18:50 | 0.050 |
| 03/17/2014 | 13:19:05 | 0.051 |
| 03/17/2014 | 13:19:20 | 0.051 |
| 03/17/2014 | 13:19:35 | 0.052 |
| 03/17/2014 | 13:19:50 | 0.055 |
| 03/17/2014 | 13:20:05 | 0.061 |
| 03/17/2014 | 13:20:20 | 0.058 |
| 03/17/2014 | 13:20:35 | 0.052 |
| 03/17/2014 | 13:20:50 | 0.052 |
| 03/17/2014 | 13:21:05 | 0.049 |
| 03/17/2014 | 13:21:20 | 0.049 |
| 03/17/2014 | 13:21:35 | 0.051 |
| 03/17/2014 | 13:21:50 | 0.050 |
| 03/17/2014 | 13:22:05 | 0.057 |
| 03/17/2014 | 13:22:20 | 0.053 |
| 03/17/2014 | 13:22:35 | 0.051 |
| 03/17/2014 | 13:22:50 | 0.051 |
| 03/17/2014 | 13:23:05 | 0.050 |
| 03/17/2014 | 13:23:20 | 0.049 |
| 03/17/2014 | 13:23:35 | 0.049 |
| 03/17/2014 | 13:23:50 | 0.050 |
| 03/17/2014 | 13:24:05 | 0.049 |
| 03/17/2014 | 13:24:20 | 0.049 |
| 03/17/2014 | 13:24:35 | 0.047 |
| 03/17/2014 | 13:24:50 | 0.061 |
| 03/17/2014 | 13:25:05 | 0.052 |
| 03/17/2014 | 13:25:20 | 0.050 |
| 03/17/2014 | 13:25:35 | 0.051 |
| 03/17/2014 | 13:25:50 | 0.051 |
| 03/17/2014 | 13:26:05 | 0.053 |
| 03/17/2014 | 13:26:20 | 0.070 |

DT 014404 031714 UW DRILLINGT2

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 13:26:35 | 0.063 |
| 03/17/2014 | 13:26:50 | 0.053 |
| 03/17/2014 | 13:27:05 | 0.056 |
| 03/17/2014 | 13:27:20 | 0.057 |
| 03/17/2014 | 13:27:35 | 0.055 |
| 03/17/2014 | 13:27:50 | 0.050 |
| 03/17/2014 | 13:28:05 | 0.050 |
| 03/17/2014 | 13:28:20 | 0.050 |
| 03/17/2014 | 13:28:35 | 0.049 |
| 03/17/2014 | 13:28:50 | 0.048 |
| 03/17/2014 | 13:29:05 | 0.107 |
| 03/17/2014 | 13:29:20 | 0.047 |
| 03/17/2014 | 13:29:35 | 0.052 |
| 03/17/2014 | 13:29:50 | 0.052 |
| 03/17/2014 | 13:30:05 | 0.053 |
| 03/17/2014 | 13:30:20 | 0.050 |
| 03/17/2014 | 13:30:35 | 0.049 |

TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530103505  
 Test ID: 003  
 Test Abbreviation: TEST 1\_003  
 Start Date: 03/17/2014  
 Start Time: 13:40:50  
 Duration (dd:hh:mm:ss): 0:01:00:00  
 Log Interval (mm:ss): 00:15  
 Number of points: 240  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.051  
 Minimum: 0.042  
 Time of Minimum: 13:41:05  
 Date of Minimum: 03/17/2014  
 Maximum: 0.084  
 Time of Maximum: 14:37:05  
 Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
 Cal. date 02/20/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/17/2014 | 13:41:05 |         | 0.042             |
| 03/17/2014 | 13:41:20 |         | 0.053             |
| 03/17/2014 | 13:41:35 |         | 0.046             |
| 03/17/2014 | 13:41:50 |         | 0.067             |
| 03/17/2014 | 13:42:05 |         | 0.061             |
| 03/17/2014 | 13:42:20 |         | 0.053             |
| 03/17/2014 | 13:42:35 |         | 0.050             |
| 03/17/2014 | 13:42:50 |         | 0.058             |
| 03/17/2014 | 13:43:05 |         | 0.050             |
| 03/17/2014 | 13:43:20 |         | 0.047             |
| 03/17/2014 | 13:43:35 |         | 0.048             |
| 03/17/2014 | 13:43:50 |         | 0.048             |
| 03/17/2014 | 13:44:05 |         | 0.046             |
| 03/17/2014 | 13:44:20 |         | 0.047             |
| 03/17/2014 | 13:44:35 |         | 0.046             |
| 03/17/2014 | 13:44:50 |         | 0.046             |
| 03/17/2014 | 13:45:05 |         | 0.046             |
| 03/17/2014 | 13:45:20 |         | 0.045             |
| 03/17/2014 | 13:45:35 |         | 0.047             |
| 03/17/2014 | 13:45:50 |         | 0.046             |
| 03/17/2014 | 13:46:05 |         | 0.046             |
| 03/17/2014 | 13:46:20 |         | 0.046             |
| 03/17/2014 | 13:46:35 |         | 0.046             |
| 03/17/2014 | 13:46:50 |         | 0.046             |
| 03/17/2014 | 13:47:05 |         | 0.047             |
| 03/17/2014 | 13:47:20 |         | 0.047             |
| 03/17/2014 | 13:47:35 |         | 0.047             |
| 03/17/2014 | 13:47:50 |         | 0.047             |
| 03/17/2014 | 13:48:05 |         | 0.048             |
| 03/17/2014 | 13:48:20 |         | 0.046             |
| 03/17/2014 | 13:48:35 |         | 0.047             |
| 03/17/2014 | 13:48:50 |         | 0.048             |
| 03/17/2014 | 13:49:05 |         | 0.048             |
| 03/17/2014 | 13:49:20 |         | 0.049             |

## DT 014404 031714 UW DRILLINGT3

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 13:49:35 | 0.049 |
| 03/17/2014 | 13:49:50 | 0.049 |
| 03/17/2014 | 13:50:05 | 0.049 |
| 03/17/2014 | 13:50:20 | 0.050 |
| 03/17/2014 | 13:50:35 | 0.050 |
| 03/17/2014 | 13:50:50 | 0.051 |
| 03/17/2014 | 13:51:05 | 0.050 |
| 03/17/2014 | 13:51:20 | 0.050 |
| 03/17/2014 | 13:51:35 | 0.049 |
| 03/17/2014 | 13:51:50 | 0.048 |
| 03/17/2014 | 13:52:05 | 0.047 |
| 03/17/2014 | 13:52:20 | 0.047 |
| 03/17/2014 | 13:52:35 | 0.047 |
| 03/17/2014 | 13:52:50 | 0.049 |
| 03/17/2014 | 13:53:05 | 0.048 |
| 03/17/2014 | 13:53:20 | 0.047 |
| 03/17/2014 | 13:53:35 | 0.047 |
| 03/17/2014 | 13:53:50 | 0.050 |
| 03/17/2014 | 13:54:05 | 0.048 |
| 03/17/2014 | 13:54:20 | 0.048 |
| 03/17/2014 | 13:54:35 | 0.048 |
| 03/17/2014 | 13:54:50 | 0.048 |
| 03/17/2014 | 13:55:05 | 0.049 |
| 03/17/2014 | 13:55:20 | 0.055 |
| 03/17/2014 | 13:55:35 | 0.048 |
| 03/17/2014 | 13:55:50 | 0.049 |
| 03/17/2014 | 13:56:05 | 0.049 |
| 03/17/2014 | 13:56:20 | 0.049 |
| 03/17/2014 | 13:56:35 | 0.055 |
| 03/17/2014 | 13:56:50 | 0.049 |
| 03/17/2014 | 13:57:05 | 0.049 |
| 03/17/2014 | 13:57:20 | 0.050 |
| 03/17/2014 | 13:57:35 | 0.051 |
| 03/17/2014 | 13:57:50 | 0.047 |
| 03/17/2014 | 13:58:05 | 0.049 |
| 03/17/2014 | 13:58:20 | 0.048 |
| 03/17/2014 | 13:58:35 | 0.057 |
| 03/17/2014 | 13:58:50 | 0.069 |
| 03/17/2014 | 13:59:05 | 0.066 |
| 03/17/2014 | 13:59:20 | 0.068 |
| 03/17/2014 | 13:59:35 | 0.062 |
| 03/17/2014 | 13:59:50 | 0.055 |
| 03/17/2014 | 14:00:05 | 0.050 |
| 03/17/2014 | 14:00:20 | 0.051 |
| 03/17/2014 | 14:00:35 | 0.049 |
| 03/17/2014 | 14:00:50 | 0.050 |
| 03/17/2014 | 14:01:05 | 0.048 |
| 03/17/2014 | 14:01:20 | 0.048 |
| 03/17/2014 | 14:01:35 | 0.048 |
| 03/17/2014 | 14:01:50 | 0.047 |
| 03/17/2014 | 14:02:05 | 0.048 |
| 03/17/2014 | 14:02:20 | 0.049 |
| 03/17/2014 | 14:02:35 | 0.049 |
| 03/17/2014 | 14:02:50 | 0.048 |
| 03/17/2014 | 14:03:05 | 0.048 |
| 03/17/2014 | 14:03:20 | 0.047 |
| 03/17/2014 | 14:03:35 | 0.048 |
| 03/17/2014 | 14:03:50 | 0.050 |
| 03/17/2014 | 14:04:05 | 0.048 |
| 03/17/2014 | 14:04:20 | 0.049 |
| 03/17/2014 | 14:04:35 | 0.053 |
| 03/17/2014 | 14:04:50 | 0.051 |
| 03/17/2014 | 14:05:05 | 0.053 |

## DT 014404 031714 UW DRILLINGT3

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 14:05:20 | 0.055 |
| 03/17/2014 | 14:05:35 | 0.050 |
| 03/17/2014 | 14:05:50 | 0.048 |
| 03/17/2014 | 14:06:05 | 0.048 |
| 03/17/2014 | 14:06:20 | 0.050 |
| 03/17/2014 | 14:06:35 | 0.051 |
| 03/17/2014 | 14:06:50 | 0.053 |
| 03/17/2014 | 14:07:05 | 0.050 |
| 03/17/2014 | 14:07:20 | 0.053 |
| 03/17/2014 | 14:07:35 | 0.056 |
| 03/17/2014 | 14:07:50 | 0.051 |
| 03/17/2014 | 14:08:05 | 0.051 |
| 03/17/2014 | 14:08:20 | 0.076 |
| 03/17/2014 | 14:08:35 | 0.072 |
| 03/17/2014 | 14:08:50 | 0.065 |
| 03/17/2014 | 14:09:05 | 0.054 |
| 03/17/2014 | 14:09:20 | 0.052 |
| 03/17/2014 | 14:09:35 | 0.050 |
| 03/17/2014 | 14:09:50 | 0.052 |
| 03/17/2014 | 14:10:05 | 0.050 |
| 03/17/2014 | 14:10:20 | 0.049 |
| 03/17/2014 | 14:10:35 | 0.051 |
| 03/17/2014 | 14:10:50 | 0.052 |
| 03/17/2014 | 14:11:05 | 0.052 |
| 03/17/2014 | 14:11:20 | 0.051 |
| 03/17/2014 | 14:11:35 | 0.054 |
| 03/17/2014 | 14:11:50 | 0.050 |
| 03/17/2014 | 14:12:05 | 0.050 |
| 03/17/2014 | 14:12:20 | 0.050 |
| 03/17/2014 | 14:12:35 | 0.049 |
| 03/17/2014 | 14:12:50 | 0.049 |
| 03/17/2014 | 14:13:05 | 0.049 |
| 03/17/2014 | 14:13:20 | 0.047 |
| 03/17/2014 | 14:13:35 | 0.058 |
| 03/17/2014 | 14:13:50 | 0.062 |
| 03/17/2014 | 14:14:05 | 0.057 |
| 03/17/2014 | 14:14:20 | 0.050 |
| 03/17/2014 | 14:14:35 | 0.063 |
| 03/17/2014 | 14:14:50 | 0.081 |
| 03/17/2014 | 14:15:05 | 0.060 |
| 03/17/2014 | 14:15:20 | 0.048 |
| 03/17/2014 | 14:15:35 | 0.062 |
| 03/17/2014 | 14:15:50 | 0.062 |
| 03/17/2014 | 14:16:05 | 0.059 |
| 03/17/2014 | 14:16:20 | 0.050 |
| 03/17/2014 | 14:16:35 | 0.050 |
| 03/17/2014 | 14:16:50 | 0.051 |
| 03/17/2014 | 14:17:05 | 0.050 |
| 03/17/2014 | 14:17:20 | 0.048 |
| 03/17/2014 | 14:17:35 | 0.053 |
| 03/17/2014 | 14:17:50 | 0.048 |
| 03/17/2014 | 14:18:05 | 0.049 |
| 03/17/2014 | 14:18:20 | 0.052 |
| 03/17/2014 | 14:18:35 | 0.047 |
| 03/17/2014 | 14:18:50 | 0.050 |
| 03/17/2014 | 14:19:05 | 0.053 |
| 03/17/2014 | 14:19:20 | 0.053 |
| 03/17/2014 | 14:19:35 | 0.053 |
| 03/17/2014 | 14:19:50 | 0.050 |
| 03/17/2014 | 14:20:05 | 0.049 |
| 03/17/2014 | 14:20:20 | 0.048 |
| 03/17/2014 | 14:20:35 | 0.047 |
| 03/17/2014 | 14:20:50 | 0.049 |

DT 014404 031714 UW DRILLINGT3

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 14:21:05 | 0.051 |
| 03/17/2014 | 14:21:20 | 0.050 |
| 03/17/2014 | 14:21:35 | 0.049 |
| 03/17/2014 | 14:21:50 | 0.048 |
| 03/17/2014 | 14:22:05 | 0.047 |
| 03/17/2014 | 14:22:20 | 0.048 |
| 03/17/2014 | 14:22:35 | 0.048 |
| 03/17/2014 | 14:22:50 | 0.048 |
| 03/17/2014 | 14:23:05 | 0.047 |
| 03/17/2014 | 14:23:20 | 0.047 |
| 03/17/2014 | 14:23:35 | 0.047 |
| 03/17/2014 | 14:23:50 | 0.052 |
| 03/17/2014 | 14:24:05 | 0.054 |
| 03/17/2014 | 14:24:20 | 0.049 |
| 03/17/2014 | 14:24:35 | 0.055 |
| 03/17/2014 | 14:24:50 | 0.048 |
| 03/17/2014 | 14:25:05 | 0.054 |
| 03/17/2014 | 14:25:20 | 0.051 |
| 03/17/2014 | 14:25:35 | 0.049 |
| 03/17/2014 | 14:25:50 | 0.048 |
| 03/17/2014 | 14:26:05 | 0.047 |
| 03/17/2014 | 14:26:20 | 0.052 |
| 03/17/2014 | 14:26:35 | 0.056 |
| 03/17/2014 | 14:26:50 | 0.047 |
| 03/17/2014 | 14:27:05 | 0.047 |
| 03/17/2014 | 14:27:20 | 0.048 |
| 03/17/2014 | 14:27:35 | 0.049 |
| 03/17/2014 | 14:27:50 | 0.051 |
| 03/17/2014 | 14:28:05 | 0.049 |
| 03/17/2014 | 14:28:20 | 0.047 |
| 03/17/2014 | 14:28:35 | 0.048 |
| 03/17/2014 | 14:28:50 | 0.048 |
| 03/17/2014 | 14:29:05 | 0.047 |
| 03/17/2014 | 14:29:20 | 0.047 |
| 03/17/2014 | 14:29:35 | 0.048 |
| 03/17/2014 | 14:29:50 | 0.048 |
| 03/17/2014 | 14:30:05 | 0.047 |
| 03/17/2014 | 14:30:20 | 0.048 |
| 03/17/2014 | 14:30:35 | 0.047 |
| 03/17/2014 | 14:30:50 | 0.048 |
| 03/17/2014 | 14:31:05 | 0.047 |
| 03/17/2014 | 14:31:20 | 0.049 |
| 03/17/2014 | 14:31:35 | 0.047 |
| 03/17/2014 | 14:31:50 | 0.047 |
| 03/17/2014 | 14:32:05 | 0.048 |
| 03/17/2014 | 14:32:20 | 0.047 |
| 03/17/2014 | 14:32:35 | 0.048 |
| 03/17/2014 | 14:32:50 | 0.048 |
| 03/17/2014 | 14:33:05 | 0.047 |
| 03/17/2014 | 14:33:20 | 0.048 |
| 03/17/2014 | 14:33:35 | 0.048 |
| 03/17/2014 | 14:33:50 | 0.048 |
| 03/17/2014 | 14:34:05 | 0.049 |
| 03/17/2014 | 14:34:20 | 0.052 |
| 03/17/2014 | 14:34:35 | 0.049 |
| 03/17/2014 | 14:34:50 | 0.048 |
| 03/17/2014 | 14:35:05 | 0.049 |
| 03/17/2014 | 14:35:20 | 0.050 |
| 03/17/2014 | 14:35:35 | 0.050 |
| 03/17/2014 | 14:35:50 | 0.048 |
| 03/17/2014 | 14:36:05 | 0.048 |
| 03/17/2014 | 14:36:20 | 0.048 |
| 03/17/2014 | 14:36:35 | 0.049 |

DT 014404 031714 UW DRILLINGT3

|            |          |       |
|------------|----------|-------|
| 03/17/2014 | 14:36:50 | 0.049 |
| 03/17/2014 | 14:37:05 | 0.084 |
| 03/17/2014 | 14:37:20 | 0.051 |
| 03/17/2014 | 14:37:35 | 0.048 |
| 03/17/2014 | 14:37:50 | 0.048 |
| 03/17/2014 | 14:38:05 | 0.048 |
| 03/17/2014 | 14:38:20 | 0.049 |
| 03/17/2014 | 14:38:35 | 0.049 |
| 03/17/2014 | 14:38:50 | 0.049 |
| 03/17/2014 | 14:39:05 | 0.050 |
| 03/17/2014 | 14:39:20 | 0.058 |
| 03/17/2014 | 14:39:35 | 0.068 |
| 03/17/2014 | 14:39:50 | 0.072 |
| 03/17/2014 | 14:40:05 | 0.067 |
| 03/17/2014 | 14:40:20 | 0.063 |
| 03/17/2014 | 14:40:35 | 0.062 |
| 03/17/2014 | 14:40:50 | 0.056 |

TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530103505  
Test ID: 004  
Test Abbreviation: TEST 1\_004  
Start Date: 03/17/2014  
Start Time: 14:56:40  
Duration (dd:hh:mm:ss): 0:00:00:00  
Number of points: 1  
Notes:

Statistics Channel: AEROSOL  
Units:  $\text{mg}/\text{m}^3$   
Average: 0.045  
Minimum: 0.045  
Time of Minimum: 14:56:55  
Date of Minimum: 03/17/2014  
Maximum: 0.045  
Time of Maximum: 14:56:55  
Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
Cal. date 02/20/2013

| Date       | Time     | AEROSOL |                        |
|------------|----------|---------|------------------------|
| MM/dd/yyyy | hh:mm:ss |         | $\text{mg}/\text{m}^3$ |
| 03/17/2014 | 14:56:55 |         | 0.045                  |

DT R11553 031714 DW DRILLINGT2  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 03/17/2014  
Start Time: 08:53:26  
Duration (dd:hh:mm:ss): 0:00:15:00  
Number of points: 1  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.014  
Minimum: 0.014  
Time of Minimum: 09:08:26  
Date of Minimum: 03/17/2014  
Maximum: 0.014  
Time of Maximum: 09:08:26  
Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/17/2014 | 09:08:26 | 0.014             |

DT R11553 031714 DW DRILLINGT3  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 003  
Test Abbreviation: MANUAL\_003  
Start Date: 03/17/2014  
Start Time: 09:16:54  
Duration (dd:hh:mm:ss): 0:05:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 22  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.013  
Minimum: 0.011  
Time of Minimum: 10:46:54  
Date of Minimum: 03/17/2014  
Maximum: 0.020  
Time of Maximum: 09:31:54  
Date of Maximum: 03/17/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/17/2014 | 09:31:54 | 0.020             |
| 03/17/2014 | 09:46:54 | 0.012             |
| 03/17/2014 | 10:01:54 | 0.014             |
| 03/17/2014 | 10:16:54 | 0.012             |
| 03/17/2014 | 10:31:54 | 0.012             |
| 03/17/2014 | 10:46:54 | 0.011             |
| 03/17/2014 | 11:01:54 | 0.013             |
| 03/17/2014 | 11:16:54 | 0.012             |
| 03/17/2014 | 11:31:54 | 0.011             |
| 03/17/2014 | 11:46:54 | 0.013             |
| 03/17/2014 | 12:01:54 | 0.013             |
| 03/17/2014 | 12:16:54 | 0.014             |
| 03/17/2014 | 12:31:54 | 0.014             |
| 03/17/2014 | 12:46:54 | 0.012             |
| 03/17/2014 | 13:01:54 | 0.013             |
| 03/17/2014 | 13:16:54 | 0.013             |
| 03/17/2014 | 13:31:54 | 0.012             |
| 03/17/2014 | 13:46:54 | 0.013             |
| 03/17/2014 | 14:01:54 | 0.016             |
| 03/17/2014 | 14:16:54 | 0.014             |
| 03/17/2014 | 14:31:54 | 0.013             |
| 03/17/2014 | 14:46:54 | 0.016             |

DT 014404 031814 UW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530103505  
Test ID: 005  
Test Abbreviation: MANUAL\_005  
Start Date: 03/18/2014  
Start Time: 08:42:07  
Duration (dd:hh:mm:ss): 0:07:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 30  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.047  
Minimum: 0.036  
Time of Minimum: 12:12:07  
Date of Minimum: 03/18/2014  
Maximum: 0.082  
Time of Maximum: 08:57:07  
Date of Maximum: 03/18/2014

Calibration Sensor: AEROSOL  
Cal. date 02/20/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/18/2014 | 08:57:07 | 0.082             |
| 03/18/2014 | 09:12:07 | 0.066             |
| 03/18/2014 | 09:27:07 | 0.065             |
| 03/18/2014 | 09:42:07 | 0.063             |
| 03/18/2014 | 09:57:07 | 0.058             |
| 03/18/2014 | 10:12:07 | 0.060             |
| 03/18/2014 | 10:27:07 | 0.051             |
| 03/18/2014 | 10:42:07 | 0.054             |
| 03/18/2014 | 10:57:07 | 0.046             |
| 03/18/2014 | 11:12:07 | 0.043             |
| 03/18/2014 | 11:27:07 | 0.040             |
| 03/18/2014 | 11:42:07 | 0.039             |
| 03/18/2014 | 11:57:07 | 0.037             |
| 03/18/2014 | 12:12:07 | 0.036             |
| 03/18/2014 | 12:27:07 | 0.036             |
| 03/18/2014 | 12:42:07 | 0.038             |
| 03/18/2014 | 12:57:07 | 0.038             |
| 03/18/2014 | 13:12:07 | 0.036             |
| 03/18/2014 | 13:27:07 | 0.036             |
| 03/18/2014 | 13:42:07 | 0.038             |
| 03/18/2014 | 13:57:07 | 0.043             |
| 03/18/2014 | 14:12:07 | 0.039             |
| 03/18/2014 | 14:27:07 | 0.040             |
| 03/18/2014 | 14:42:07 | 0.041             |
| 03/18/2014 | 14:57:07 | 0.043             |
| 03/18/2014 | 15:12:07 | 0.044             |
| 03/18/2014 | 15:27:07 | 0.043             |
| 03/18/2014 | 15:42:07 | 0.045             |
| 03/18/2014 | 15:57:07 | 0.049             |
| 03/18/2014 | 16:12:07 | 0.046             |

DT R11553 031814 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 004  
Test Abbreviation: MANUAL\_004  
Start Date: 03/18/2014  
Start Time: 09:08:50  
Duration (dd:hh:mm:ss): 0:07:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 28  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.020  
Minimum: 0.014  
Time of Minimum: 13:53:50  
Date of Minimum: 03/18/2014  
Maximum: 0.029  
Time of Maximum: 09:23:50  
Date of Maximum: 03/18/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/18/2014 | 09:23:50 | 0.029             |
| 03/18/2014 | 09:38:50 | 0.025             |
| 03/18/2014 | 09:53:50 | 0.028             |
| 03/18/2014 | 10:08:50 | 0.027             |
| 03/18/2014 | 10:23:50 | 0.025             |
| 03/18/2014 | 10:38:50 | 0.025             |
| 03/18/2014 | 10:53:50 | 0.025             |
| 03/18/2014 | 11:08:50 | 0.023             |
| 03/18/2014 | 11:23:50 | 0.018             |
| 03/18/2014 | 11:38:50 | 0.018             |
| 03/18/2014 | 11:53:50 | 0.015             |
| 03/18/2014 | 12:08:50 | 0.015             |
| 03/18/2014 | 12:23:50 | 0.018             |
| 03/18/2014 | 12:38:50 | 0.015             |
| 03/18/2014 | 12:53:50 | 0.017             |
| 03/18/2014 | 13:08:50 | 0.015             |
| 03/18/2014 | 13:23:50 | 0.017             |
| 03/18/2014 | 13:38:50 | 0.016             |
| 03/18/2014 | 13:53:50 | 0.014             |
| 03/18/2014 | 14:08:50 | 0.017             |
| 03/18/2014 | 14:23:50 | 0.018             |
| 03/18/2014 | 14:38:50 | 0.019             |
| 03/18/2014 | 14:53:50 | 0.029             |
| 03/18/2014 | 15:08:50 | 0.020             |
| 03/18/2014 | 15:23:50 | 0.020             |
| 03/18/2014 | 15:38:50 | 0.015             |
| 03/18/2014 | 15:53:50 | 0.014             |
| 03/18/2014 | 16:08:50 | 0.024             |

DT 014404 031914 UW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530103505  
Test ID: 006  
Test Abbreviation: MANUAL\_006  
Start Date: 03/19/2014  
Start Time: 12:56:23  
Duration (dd:hh:mm:ss): 0:07:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 14  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.125  
Minimum: 0.000  
Time of Minimum: 20:11:56  
Date of Minimum: 03/19/2014  
Maximum: 0.147  
Time of Maximum: 14:11:23  
Date of Maximum: 03/19/2014

Calibration Sensor: AEROSOL  
Cal. date 02/20/2013

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/19/2014 | 13:11:23 | 0.131   |                   |
| 03/19/2014 | 13:26:23 | 0.120   |                   |
| 03/19/2014 | 13:41:23 | 0.145   |                   |
| 03/19/2014 | 13:56:23 | 0.138   |                   |
| 03/19/2014 | 14:11:23 | 0.147   |                   |
| 03/19/2014 | 14:26:23 | 0.142   |                   |
| 03/19/2014 | 14:41:23 | 0.134   |                   |
| 03/19/2014 | 14:56:23 | 0.132   |                   |
| 03/19/2014 | 15:11:23 | 0.133   |                   |
| 03/19/2014 | 15:26:23 | 0.129   |                   |
| 03/19/2014 | 15:41:23 | 0.131   |                   |
| 03/19/2014 | 15:56:23 | 0.132   |                   |
| 03/19/2014 | 16:11:23 | 0.133   |                   |
| 03/19/2014 | 20:11:56 | 0.000   |                   |

DT R11553 031914 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 005  
Test Abbreviation: MANUAL\_005  
Start Date: 03/19/2014  
Start Time: 12:59:35  
Duration (dd:hh:mm:ss): 0:03:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 14  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.105  
Minimum: 0.000  
Time of Minimum: 13:52:51  
Date of Minimum: 03/19/2014  
Maximum: 0.261  
Time of Maximum: 13:44:35  
Date of Maximum: 03/19/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/19/2014 | 13:14:35 | 0.028   |                   |
| 03/19/2014 | 13:29:35 | 0.024   |                   |
| 03/19/2014 | 13:44:35 | 0.261   |                   |
| 03/19/2014 | 13:52:51 | 0.000   |                   |
| 03/19/2014 | 13:59:35 | 0.123   |                   |
| 03/19/2014 | 14:14:35 | 0.119   |                   |
| 03/19/2014 | 14:29:35 | 0.116   |                   |
| 03/19/2014 | 14:44:35 | 0.117   |                   |
| 03/19/2014 | 14:59:35 | 0.117   |                   |
| 03/19/2014 | 15:14:35 | 0.113   |                   |
| 03/19/2014 | 15:29:35 | 0.111   |                   |
| 03/19/2014 | 15:44:35 | 0.112   |                   |
| 03/19/2014 | 15:59:35 | 0.119   |                   |
| 03/19/2014 | 16:14:35 | 0.112   |                   |

## TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530103505  
 Test ID: 007  
 Test Abbreviation: MANUAL\_007  
 Start Date: 03/20/2014  
 Start Time: 09:08:08  
 Duration (dd:hh:mm:ss): 0:03:15:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 13  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.114  
 Minimum: 0.100  
 Time of Minimum: 12:08:08  
 Date of Minimum: 03/20/2014  
 Maximum: 0.140  
 Time of Maximum: 09:23:08  
 Date of Maximum: 03/20/2014

Calibration Sensor: AEROSOL  
 Cal. date 02/20/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/20/2014 | 09:23:08 |         | 0.140             |
| 03/20/2014 | 09:38:08 |         | 0.122             |
| 03/20/2014 | 09:53:08 |         | 0.119             |
| 03/20/2014 | 10:08:08 |         | 0.119             |
| 03/20/2014 | 10:23:08 |         | 0.117             |
| 03/20/2014 | 10:38:08 |         | 0.116             |
| 03/20/2014 | 10:53:08 |         | 0.112             |
| 03/20/2014 | 11:08:08 |         | 0.111             |
| 03/20/2014 | 11:23:08 |         | 0.111             |
| 03/20/2014 | 11:38:08 |         | 0.109             |
| 03/20/2014 | 11:53:08 |         | 0.104             |
| 03/20/2014 | 12:08:08 |         | 0.100             |
| 03/20/2014 | 12:23:08 |         | 0.101             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530103505  
 Test ID: 008  
 Test Abbreviation: MANUAL\_008  
 Start Date: 03/20/2014  
 Start Time: 12:24:46  
 Duration (dd:hh:mm:ss): 0:02:30:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 10  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.168  
 Minimum: 0.000  
 Time of Minimum: 13:11:13  
 Date of Minimum: 03/20/2014  
 Maximum: 0.240  
 Time of Maximum: 13:24:46

DT 014404 032014 UW T2 DRILLING  
Date of Maximum: 03/20/2014

Calibration Sensor: AEROSOL  
Cal. date 02/20/2013

| Date       | Time     | AEROSOL |        |
|------------|----------|---------|--------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m^3 |
| 03/20/2014 | 12:39:46 |         | 0.196  |
| 03/20/2014 | 13:11:13 |         | 0.000  |
| 03/20/2014 | 13:22:33 |         | 0.000  |
| 03/20/2014 | 13:24:46 |         | 0.240  |
| 03/20/2014 | 13:39:46 |         | 0.207  |
| 03/20/2014 | 13:54:46 |         | 0.206  |
| 03/20/2014 | 14:09:46 |         | 0.204  |
| 03/20/2014 | 14:24:46 |         | 0.205  |
| 03/20/2014 | 14:39:46 |         | 0.208  |
| 03/20/2014 | 14:54:46 |         | 0.209  |

DT R11553 032014 DW T2 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 006  
Test Abbreviation: MANUAL\_006  
Start Date: 03/20/2014  
Start Time: 09:11:24  
Duration (dd:hh:mm:ss): 0:02:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 9  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.178  
Minimum: 0.140  
Time of Minimum: 10:26:24  
Date of Minimum: 03/20/2014  
Maximum: 0.233  
Time of Maximum: 10:41:24  
Date of Maximum: 03/20/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/20/2014 | 09:26:24 |         | 0.152             |
| 03/20/2014 | 09:41:24 |         | 0.143             |
| 03/20/2014 | 09:56:24 |         | 0.141             |
| 03/20/2014 | 10:11:24 |         | 0.143             |
| 03/20/2014 | 10:26:24 |         | 0.140             |
| 03/20/2014 | 10:41:24 |         | 0.233             |
| 03/20/2014 | 10:56:24 |         | 0.219             |
| 03/20/2014 | 11:11:24 |         | 0.219             |
| 03/20/2014 | 11:26:24 |         | 0.216             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 007  
Test Abbreviation: MANUAL\_007  
Start Date: 03/20/2014  
Start Time: 11:28:03  
Duration (dd:hh:mm:ss): 0:00:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 3  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.211  
Minimum: 0.208  
Time of Minimum: 11:58:03  
Date of Minimum: 03/20/2014  
Maximum: 0.215  
Time of Maximum: 12:13:03  
Date of Maximum: 03/20/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

## DT R11553 032014 DW T2 DRILLING

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/20/2014 | 11:43:03 |         | 0.211             |
| 03/20/2014 | 11:58:03 |         | 0.208             |
| 03/20/2014 | 12:13:03 |         | 0.215             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104404  
 Test ID: 008  
 Test Abbreviation: MANUAL\_008  
 Start Date: 03/20/2014  
 Start Time: 12:20:37  
 Duration (dd:hh:mm:ss): 0:02:30:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 10  
 Notes:

| Statistics       | Channel:          | AEROSOL |
|------------------|-------------------|---------|
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.021             |         |
| Minimum:         | 0.018             |         |
| Time of Minimum: | 14:05:37          |         |
| Date of Minimum: | 03/20/2014        |         |
| Maximum:         | 0.028             |         |
| Time of Maximum: | 12:35:37          |         |
| Date of Maximum: | 03/20/2014        |         |

| Calibration | Sensor:    | AEROSOL |
|-------------|------------|---------|
| Cal. date   | 06/27/2012 |         |

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/20/2014 | 12:35:37 |         | 0.028             |
| 03/20/2014 | 12:50:37 |         | 0.022             |
| 03/20/2014 | 13:05:37 |         | 0.023             |
| 03/20/2014 | 13:20:37 |         | 0.022             |
| 03/20/2014 | 13:35:37 |         | 0.020             |
| 03/20/2014 | 13:50:37 |         | 0.019             |
| 03/20/2014 | 14:05:37 |         | 0.018             |
| 03/20/2014 | 14:20:37 |         | 0.019             |
| 03/20/2014 | 14:35:37 |         | 0.020             |
| 03/20/2014 | 14:50:37 |         | 0.024             |

DT 17784 032414 UW @BH8 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 03/24/2014  
Start Time: 13:47:52  
Duration (dd:hh:mm:ss): 0:02:12:00  
Log Interval (mm:ss): 01:00  
Number of points: 132  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.011  
Minimum: 0.008  
Time of Minimum: 13:57:52  
Date of Minimum: 03/24/2014  
Maximum: 0.041  
Time of Maximum: 14:40:52  
Date of Maximum: 03/24/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/24/2014 | 13:48:52 | 0.016             |
| 03/24/2014 | 13:49:52 | 0.011             |
| 03/24/2014 | 13:50:52 | 0.010             |
| 03/24/2014 | 13:51:52 | 0.012             |
| 03/24/2014 | 13:52:52 | 0.010             |
| 03/24/2014 | 13:53:52 | 0.026             |
| 03/24/2014 | 13:54:52 | 0.009             |
| 03/24/2014 | 13:55:52 | 0.009             |
| 03/24/2014 | 13:56:52 | 0.010             |
| 03/24/2014 | 13:57:52 | 0.008             |
| 03/24/2014 | 13:58:52 | 0.008             |
| 03/24/2014 | 13:59:52 | 0.009             |
| 03/24/2014 | 14:00:52 | 0.009             |
| 03/24/2014 | 14:01:52 | 0.009             |
| 03/24/2014 | 14:02:52 | 0.010             |
| 03/24/2014 | 14:03:52 | 0.010             |
| 03/24/2014 | 14:04:52 | 0.010             |
| 03/24/2014 | 14:05:52 | 0.010             |
| 03/24/2014 | 14:06:52 | 0.009             |
| 03/24/2014 | 14:07:52 | 0.010             |
| 03/24/2014 | 14:08:52 | 0.010             |
| 03/24/2014 | 14:09:52 | 0.010             |
| 03/24/2014 | 14:10:52 | 0.010             |
| 03/24/2014 | 14:11:52 | 0.011             |
| 03/24/2014 | 14:12:52 | 0.011             |
| 03/24/2014 | 14:13:52 | 0.011             |
| 03/24/2014 | 14:14:52 | 0.011             |
| 03/24/2014 | 14:15:52 | 0.010             |
| 03/24/2014 | 14:16:52 | 0.010             |
| 03/24/2014 | 14:17:52 | 0.010             |
| 03/24/2014 | 14:18:52 | 0.010             |
| 03/24/2014 | 14:19:52 | 0.011             |
| 03/24/2014 | 14:20:52 | 0.011             |
| 03/24/2014 | 14:21:52 | 0.010             |

## DT 17784 032414 UW @BH8 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/24/2014 | 14:22:52 | 0.010 |
| 03/24/2014 | 14:23:52 | 0.010 |
| 03/24/2014 | 14:24:52 | 0.010 |
| 03/24/2014 | 14:25:52 | 0.010 |
| 03/24/2014 | 14:26:52 | 0.010 |
| 03/24/2014 | 14:27:52 | 0.010 |
| 03/24/2014 | 14:28:52 | 0.010 |
| 03/24/2014 | 14:29:52 | 0.010 |
| 03/24/2014 | 14:30:52 | 0.010 |
| 03/24/2014 | 14:31:52 | 0.010 |
| 03/24/2014 | 14:32:52 | 0.010 |
| 03/24/2014 | 14:33:52 | 0.011 |
| 03/24/2014 | 14:34:52 | 0.011 |
| 03/24/2014 | 14:35:52 | 0.011 |
| 03/24/2014 | 14:36:52 | 0.011 |
| 03/24/2014 | 14:37:52 | 0.011 |
| 03/24/2014 | 14:38:52 | 0.011 |
| 03/24/2014 | 14:39:52 | 0.032 |
| 03/24/2014 | 14:40:52 | 0.041 |
| 03/24/2014 | 14:41:52 | 0.012 |
| 03/24/2014 | 14:42:52 | 0.010 |
| 03/24/2014 | 14:43:52 | 0.010 |
| 03/24/2014 | 14:44:52 | 0.011 |
| 03/24/2014 | 14:45:52 | 0.010 |
| 03/24/2014 | 14:46:52 | 0.010 |
| 03/24/2014 | 14:47:52 | 0.010 |
| 03/24/2014 | 14:48:52 | 0.010 |
| 03/24/2014 | 14:49:52 | 0.010 |
| 03/24/2014 | 14:50:52 | 0.011 |
| 03/24/2014 | 14:51:52 | 0.010 |
| 03/24/2014 | 14:52:52 | 0.010 |
| 03/24/2014 | 14:53:52 | 0.010 |
| 03/24/2014 | 14:54:52 | 0.011 |
| 03/24/2014 | 14:55:52 | 0.011 |
| 03/24/2014 | 14:56:52 | 0.010 |
| 03/24/2014 | 14:57:52 | 0.011 |
| 03/24/2014 | 14:58:52 | 0.014 |
| 03/24/2014 | 14:59:52 | 0.013 |
| 03/24/2014 | 15:00:52 | 0.016 |
| 03/24/2014 | 15:01:52 | 0.016 |
| 03/24/2014 | 15:02:52 | 0.011 |
| 03/24/2014 | 15:03:52 | 0.011 |
| 03/24/2014 | 15:04:52 | 0.013 |
| 03/24/2014 | 15:05:52 | 0.010 |
| 03/24/2014 | 15:06:52 | 0.012 |
| 03/24/2014 | 15:07:52 | 0.010 |
| 03/24/2014 | 15:08:52 | 0.019 |
| 03/24/2014 | 15:09:52 | 0.012 |
| 03/24/2014 | 15:10:52 | 0.010 |
| 03/24/2014 | 15:11:52 | 0.010 |
| 03/24/2014 | 15:12:52 | 0.010 |
| 03/24/2014 | 15:13:52 | 0.010 |
| 03/24/2014 | 15:14:52 | 0.010 |
| 03/24/2014 | 15:15:52 | 0.010 |
| 03/24/2014 | 15:16:52 | 0.010 |
| 03/24/2014 | 15:17:52 | 0.010 |
| 03/24/2014 | 15:18:52 | 0.010 |
| 03/24/2014 | 15:19:52 | 0.010 |
| 03/24/2014 | 15:20:52 | 0.010 |
| 03/24/2014 | 15:21:52 | 0.010 |
| 03/24/2014 | 15:22:52 | 0.010 |
| 03/24/2014 | 15:23:52 | 0.010 |
| 03/24/2014 | 15:24:52 | 0.011 |

## DT 17784 032414 UW @BH8 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/24/2014 | 15:25:52 | 0.011 |
| 03/24/2014 | 15:26:52 | 0.010 |
| 03/24/2014 | 15:27:52 | 0.010 |
| 03/24/2014 | 15:28:52 | 0.010 |
| 03/24/2014 | 15:29:52 | 0.010 |
| 03/24/2014 | 15:30:52 | 0.011 |
| 03/24/2014 | 15:31:52 | 0.010 |
| 03/24/2014 | 15:32:52 | 0.012 |
| 03/24/2014 | 15:33:52 | 0.021 |
| 03/24/2014 | 15:34:52 | 0.011 |
| 03/24/2014 | 15:35:52 | 0.011 |
| 03/24/2014 | 15:36:52 | 0.011 |
| 03/24/2014 | 15:37:52 | 0.010 |
| 03/24/2014 | 15:38:52 | 0.010 |
| 03/24/2014 | 15:39:52 | 0.010 |
| 03/24/2014 | 15:40:52 | 0.010 |
| 03/24/2014 | 15:41:52 | 0.010 |
| 03/24/2014 | 15:42:52 | 0.010 |
| 03/24/2014 | 15:43:52 | 0.010 |
| 03/24/2014 | 15:44:52 | 0.010 |
| 03/24/2014 | 15:45:52 | 0.010 |
| 03/24/2014 | 15:46:52 | 0.010 |
| 03/24/2014 | 15:47:52 | 0.011 |
| 03/24/2014 | 15:48:52 | 0.014 |
| 03/24/2014 | 15:49:52 | 0.011 |
| 03/24/2014 | 15:50:52 | 0.011 |
| 03/24/2014 | 15:51:52 | 0.009 |
| 03/24/2014 | 15:52:52 | 0.009 |
| 03/24/2014 | 15:53:52 | 0.009 |
| 03/24/2014 | 15:54:52 | 0.009 |
| 03/24/2014 | 15:55:52 | 0.009 |
| 03/24/2014 | 15:56:52 | 0.010 |
| 03/24/2014 | 15:57:52 | 0.010 |
| 03/24/2014 | 15:58:52 | 0.010 |
| 03/24/2014 | 15:59:52 | 0.011 |

DT R11553 032414 DW T1 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 009  
Test Abbreviation: MANUAL\_009  
Start Date: 03/24/2014  
Start Time: 08:42:08  
Duration (dd:hh:mm:ss): 0:05:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 23  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.002  
Minimum: 0.000  
Time of Minimum: 09:12:08  
Date of Minimum: 03/24/2014  
Maximum: 0.029  
Time of Maximum: 13:57:08  
Date of Maximum: 03/24/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/24/2014 | 08:57:08 | 0.003             |
| 03/24/2014 | 09:12:08 | 0.000             |
| 03/24/2014 | 09:27:08 | 0.000             |
| 03/24/2014 | 09:42:08 | 0.000             |
| 03/24/2014 | 09:57:08 | 0.000             |
| 03/24/2014 | 10:12:08 | 0.002             |
| 03/24/2014 | 10:27:08 | 0.001             |
| 03/24/2014 | 10:42:08 | 0.000             |
| 03/24/2014 | 10:57:08 | 0.002             |
| 03/24/2014 | 11:12:08 | 0.007             |
| 03/24/2014 | 11:27:08 | 0.000             |
| 03/24/2014 | 11:42:08 | 0.000             |
| 03/24/2014 | 11:57:08 | 0.000             |
| 03/24/2014 | 12:12:08 | 0.002             |
| 03/24/2014 | 12:27:08 | 0.000             |
| 03/24/2014 | 12:42:08 | 0.000             |
| 03/24/2014 | 12:57:08 | 0.000             |
| 03/24/2014 | 13:12:08 | 0.000             |
| 03/24/2014 | 13:27:08 | 0.000             |
| 03/24/2014 | 13:42:08 | 0.000             |
| 03/24/2014 | 13:57:08 | 0.029             |
| 03/24/2014 | 14:12:08 | 0.000             |
| 03/24/2014 | 14:27:08 | 0.000             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 010  
Test Abbreviation: MANUAL\_010  
Start Date: 03/24/2014  
Start Time: 14:30:28  
Duration (dd:hh:mm:ss): 0:01:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 6

## Notes:

Statistics      Channel:      AEROSOL  
                  Units: mg/m<sup>3</sup>  
                  Average:      0.000  
                  Minimum:      0.000  
                  Time of Minimum:      14:45:28  
                  Date of Minimum:      03/24/2014  
                  Maximum:      0.000  
                  Time of Maximum:      14:45:28  
                  Date of Maximum:      03/24/2014

Calibration      Sensor: AEROSOL  
                  Cal. date      06/27/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/24/2014 | 14:45:28 |         | 0.000             |
| 03/24/2014 | 15:00:28 |         | 0.000             |
| 03/24/2014 | 15:15:28 |         | 0.000             |
| 03/24/2014 | 15:30:28 |         | 0.000             |
| 03/24/2014 | 15:45:28 |         | 0.000             |
| 03/24/2014 | 16:00:28 |         | 0.000             |

DT R11497 032414 @BH 3 UW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 003  
Test Abbreviation: MANUAL\_003  
Start Date: 03/24/2014  
Start Time: 13:47:03  
Duration (dd:hh:mm:ss): 0:02:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 9  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.050  
Minimum: 0.011  
Time of Minimum: 14:32:03  
Date of Minimum: 03/24/2014  
Maximum: 0.316  
Time of Maximum: 14:02:03  
Date of Maximum: 03/24/2014

Calibration Sensor: AEROSOL  
Cal. date 06/20/2012

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/24/2014 | 14:02:03 |         | 0.316             |
| 03/24/2014 | 14:17:03 |         | 0.012             |
| 03/24/2014 | 14:32:03 |         | 0.011             |
| 03/24/2014 | 14:47:03 |         | 0.026             |
| 03/24/2014 | 15:02:03 |         | 0.025             |
| 03/24/2014 | 15:17:03 |         | 0.011             |
| 03/24/2014 | 15:32:03 |         | 0.011             |
| 03/24/2014 | 15:47:03 |         | 0.021             |
| 03/24/2014 | 16:02:03 |         | 0.013             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 004  
Test Abbreviation: MANUAL\_004  
Start Date: 03/25/2014  
Start Time: 07:37:52  
Duration (dd:hh:mm:ss): 0:08:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 32  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.029  
Minimum: 0.023  
Time of Minimum: 09:52:52  
Date of Minimum: 03/25/2014  
Maximum: 0.039  
Time of Maximum: 09:37:52  
Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
Cal. date 06/20/2012

## DT R11497 032414 @BH 3 UW DRILLING

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/25/2014 | 07:52:52 |         | 0.026             |
| 03/25/2014 | 08:07:52 |         | 0.032             |
| 03/25/2014 | 08:22:52 |         | 0.034             |
| 03/25/2014 | 08:37:52 |         | 0.033             |
| 03/25/2014 | 08:52:52 |         | 0.036             |
| 03/25/2014 | 09:07:52 |         | 0.035             |
| 03/25/2014 | 09:22:52 |         | 0.033             |
| 03/25/2014 | 09:37:52 |         | 0.039             |
| 03/25/2014 | 09:52:52 |         | 0.023             |
| 03/25/2014 | 10:07:52 |         | 0.023             |
| 03/25/2014 | 10:22:52 |         | 0.023             |
| 03/25/2014 | 10:37:52 |         | 0.026             |
| 03/25/2014 | 10:52:52 |         | 0.028             |
| 03/25/2014 | 11:07:52 |         | 0.026             |
| 03/25/2014 | 11:22:52 |         | 0.026             |
| 03/25/2014 | 11:37:52 |         | 0.025             |
| 03/25/2014 | 11:52:52 |         | 0.028             |
| 03/25/2014 | 12:07:52 |         | 0.028             |
| 03/25/2014 | 12:22:52 |         | 0.027             |
| 03/25/2014 | 12:37:52 |         | 0.025             |
| 03/25/2014 | 12:52:52 |         | 0.028             |
| 03/25/2014 | 13:07:52 |         | 0.029             |
| 03/25/2014 | 13:22:52 |         | 0.028             |
| 03/25/2014 | 13:37:52 |         | 0.029             |
| 03/25/2014 | 13:52:52 |         | 0.028             |
| 03/25/2014 | 14:07:52 |         | 0.029             |
| 03/25/2014 | 14:22:52 |         | 0.032             |
| 03/25/2014 | 14:37:52 |         | 0.029             |
| 03/25/2014 | 14:52:52 |         | 0.028             |
| 03/25/2014 | 15:07:52 |         | 0.031             |
| 03/25/2014 | 15:22:52 |         | 0.035             |
| 03/25/2014 | 15:37:52 |         | 0.027             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530102611  
 Test ID: 005  
 Test Abbreviation: MANUAL\_005  
 Start Date: 03/27/2014  
 Start Time: 07:30:31  
 Duration (dd:hh:mm:ss): 0:08:15:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 33  
 Notes:

| Statistics       | Channel:          | AEROSOL |
|------------------|-------------------|---------|
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.037             |         |
| Minimum:         | 0.028             |         |
| Time of Minimum: | 15:30:31          |         |
| Date of Minimum: | 03/27/2014        |         |
| Maximum:         | 0.045             |         |
| Time of Maximum: | 10:00:31          |         |
| Date of Maximum: | 03/27/2014        |         |

Calibration Sensor: AEROSOL  
 Cal. date 06/20/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |

## DT R11497 032414 @BH 3 UW DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 07:45:31 | 0.035 |
| 03/27/2014 | 08:00:31 | 0.037 |
| 03/27/2014 | 08:15:31 | 0.034 |
| 03/27/2014 | 08:30:31 | 0.040 |
| 03/27/2014 | 08:45:31 | 0.037 |
| 03/27/2014 | 09:00:31 | 0.043 |
| 03/27/2014 | 09:15:31 | 0.041 |
| 03/27/2014 | 09:30:31 | 0.039 |
| 03/27/2014 | 09:45:31 | 0.040 |
| 03/27/2014 | 10:00:31 | 0.045 |
| 03/27/2014 | 10:15:31 | 0.040 |
| 03/27/2014 | 10:30:31 | 0.038 |
| 03/27/2014 | 10:45:31 | 0.041 |
| 03/27/2014 | 11:00:31 | 0.036 |
| 03/27/2014 | 11:15:31 | 0.035 |
| 03/27/2014 | 11:30:31 | 0.038 |
| 03/27/2014 | 11:45:31 | 0.036 |
| 03/27/2014 | 12:00:31 | 0.035 |
| 03/27/2014 | 12:15:31 | 0.035 |
| 03/27/2014 | 12:30:31 | 0.036 |
| 03/27/2014 | 12:45:31 | 0.037 |
| 03/27/2014 | 13:00:31 | 0.035 |
| 03/27/2014 | 13:15:31 | 0.038 |
| 03/27/2014 | 13:30:31 | 0.042 |
| 03/27/2014 | 13:45:31 | 0.039 |
| 03/27/2014 | 14:00:31 | 0.040 |
| 03/27/2014 | 14:15:31 | 0.038 |
| 03/27/2014 | 14:30:31 | 0.037 |
| 03/27/2014 | 14:45:31 | 0.030 |
| 03/27/2014 | 15:00:31 | 0.030 |
| 03/27/2014 | 15:15:31 | 0.030 |
| 03/27/2014 | 15:30:31 | 0.028 |
| 03/27/2014 | 15:45:31 | 0.030 |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530102611  
 Test ID: 006  
 Test Abbreviation: MANUAL\_006  
 Start Date: 03/28/2014  
 Start Time: 07:41:35  
 Duration (dd:hh:mm:ss): 0:05:00:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 20  
 Notes:

| Statistics       | Channel:          | AEROSOL |
|------------------|-------------------|---------|
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.044             |         |
| Minimum:         | 0.030             |         |
| Time of Minimum: | 10:26:35          |         |
| Date of Minimum: | 03/28/2014        |         |
| Maximum:         | 0.067             |         |
| Time of Maximum: | 08:56:35          |         |
| Date of Maximum: | 03/28/2014        |         |

| Calibration | Sensor:    | AEROSOL |
|-------------|------------|---------|
| Cal. date   | 06/20/2012 |         |

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/28/2014 | 07:56:35 | 0.057   |                   |
| 03/28/2014 | 08:11:35 | 0.058   |                   |

DT R11497 032414 @BH 3 UW DRILLING

|            |          |       |
|------------|----------|-------|
| 03/28/2014 | 08:26:35 | 0.052 |
| 03/28/2014 | 08:41:35 | 0.060 |
| 03/28/2014 | 08:56:35 | 0.067 |
| 03/28/2014 | 09:11:35 | 0.061 |
| 03/28/2014 | 09:26:35 | 0.035 |
| 03/28/2014 | 09:41:35 | 0.034 |
| 03/28/2014 | 09:56:35 | 0.032 |
| 03/28/2014 | 10:11:35 | 0.031 |
| 03/28/2014 | 10:26:35 | 0.030 |
| 03/28/2014 | 10:41:35 | 0.030 |
| 03/28/2014 | 10:56:35 | 0.036 |
| 03/28/2014 | 11:11:35 | 0.036 |
| 03/28/2014 | 11:26:35 | 0.042 |
| 03/28/2014 | 11:41:35 | 0.043 |
| 03/28/2014 | 11:56:35 | 0.045 |
| 03/28/2014 | 12:11:35 | 0.044 |
| 03/28/2014 | 12:26:35 | 0.046 |
| 03/28/2014 | 12:41:35 | 0.048 |

DT R11550 032414 @BH 3 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 003  
Test Abbreviation: MANUAL\_003  
Start Date: 03/24/2014  
Start Time: 13:46:04  
Duration (dd:hh:mm:ss): 0:02:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 9  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.018  
Minimum: 0.011  
Time of Minimum: 15:31:04  
Date of Minimum: 03/24/2014  
Maximum: 0.045  
Time of Maximum: 14:01:04  
Date of Maximum: 03/24/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/24/2014 | 14:01:04 | 0.045             |
| 03/24/2014 | 14:16:04 | 0.012             |
| 03/24/2014 | 14:31:04 | 0.012             |
| 03/24/2014 | 14:46:04 | 0.021             |
| 03/24/2014 | 15:01:04 | 0.019             |
| 03/24/2014 | 15:16:04 | 0.013             |
| 03/24/2014 | 15:31:04 | 0.011             |
| 03/24/2014 | 15:46:04 | 0.016             |
| 03/24/2014 | 16:01:04 | 0.013             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 004  
Test Abbreviation: MANUAL\_004  
Start Date: 03/25/2014  
Start Time: 07:36:44  
Duration (dd:hh:mm:ss): 0:08:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 33  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.037  
Minimum: 0.023  
Time of Minimum: 11:36:44  
Date of Minimum: 03/25/2014  
Maximum: 0.128  
Time of Maximum: 07:51:44  
Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

## DT R11550 032414 @BH 3 DW DRILLING

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/25/2014 | 07:51:44 |         | 0.128             |
| 03/25/2014 | 08:06:44 |         | 0.127             |
| 03/25/2014 | 08:21:44 |         | 0.065             |
| 03/25/2014 | 08:36:44 |         | 0.032             |
| 03/25/2014 | 08:51:44 |         | 0.029             |
| 03/25/2014 | 09:06:44 |         | 0.033             |
| 03/25/2014 | 09:21:44 |         | 0.031             |
| 03/25/2014 | 09:36:44 |         | 0.025             |
| 03/25/2014 | 09:51:44 |         | 0.027             |
| 03/25/2014 | 10:06:44 |         | 0.028             |
| 03/25/2014 | 10:21:44 |         | 0.028             |
| 03/25/2014 | 10:36:44 |         | 0.025             |
| 03/25/2014 | 10:51:44 |         | 0.025             |
| 03/25/2014 | 11:06:44 |         | 0.035             |
| 03/25/2014 | 11:21:44 |         | 0.027             |
| 03/25/2014 | 11:36:44 |         | 0.023             |
| 03/25/2014 | 11:51:44 |         | 0.028             |
| 03/25/2014 | 12:06:44 |         | 0.025             |
| 03/25/2014 | 12:21:44 |         | 0.024             |
| 03/25/2014 | 12:36:44 |         | 0.024             |
| 03/25/2014 | 12:51:44 |         | 0.028             |
| 03/25/2014 | 13:06:44 |         | 0.025             |
| 03/25/2014 | 13:21:44 |         | 0.025             |
| 03/25/2014 | 13:36:44 |         | 0.026             |
| 03/25/2014 | 13:51:44 |         | 0.061             |
| 03/25/2014 | 14:06:44 |         | 0.031             |
| 03/25/2014 | 14:21:44 |         | 0.039             |
| 03/25/2014 | 14:36:44 |         | 0.034             |
| 03/25/2014 | 14:51:44 |         | 0.037             |
| 03/25/2014 | 15:06:44 |         | 0.038             |
| 03/25/2014 | 15:21:44 |         | 0.028             |
| 03/25/2014 | 15:36:44 |         | 0.033             |
| 03/25/2014 | 15:51:44 |         | 0.038             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104409  
 Test ID: 005  
 Test Abbreviation: MANUAL\_005  
 Start Date: 03/27/2014  
 Start Time: 07:34:37  
 Duration (dd:hh:mm:ss): 0:08:15:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 33  
 Notes:

| Statistics       | Channel:          | AEROSOL |
|------------------|-------------------|---------|
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.040             |         |
| Minimum:         | 0.025             |         |
| Time of Minimum: | 15:34:37          |         |
| Date of Minimum: | 03/27/2014        |         |
| Maximum:         | 0.067             |         |
| Time of Maximum: | 14:19:37          |         |
| Date of Maximum: | 03/27/2014        |         |

Calibration Sensor: AEROSOL  
 Cal. date 03/07/2014

| Date | Time | AEROSOL |
|------|------|---------|
|------|------|---------|

## DT R11550 032414 @BH 3 DW DRILLING

| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
|------------|----------|-------------------|
| 03/27/2014 | 07:49:37 | 0.065             |
| 03/27/2014 | 08:04:37 | 0.045             |
| 03/27/2014 | 08:19:37 | 0.040             |
| 03/27/2014 | 08:34:37 | 0.037             |
| 03/27/2014 | 08:49:37 | 0.036             |
| 03/27/2014 | 09:04:37 | 0.039             |
| 03/27/2014 | 09:19:37 | 0.040             |
| 03/27/2014 | 09:34:37 | 0.035             |
| 03/27/2014 | 09:49:37 | 0.039             |
| 03/27/2014 | 10:04:37 | 0.044             |
| 03/27/2014 | 10:19:37 | 0.045             |
| 03/27/2014 | 10:34:37 | 0.048             |
| 03/27/2014 | 10:49:37 | 0.038             |
| 03/27/2014 | 11:04:37 | 0.032             |
| 03/27/2014 | 11:19:37 | 0.031             |
| 03/27/2014 | 11:34:37 | 0.031             |
| 03/27/2014 | 11:49:37 | 0.035             |
| 03/27/2014 | 12:04:37 | 0.032             |
| 03/27/2014 | 12:19:37 | 0.029             |
| 03/27/2014 | 12:34:37 | 0.033             |
| 03/27/2014 | 12:49:37 | 0.037             |
| 03/27/2014 | 13:04:37 | 0.033             |
| 03/27/2014 | 13:19:37 | 0.032             |
| 03/27/2014 | 13:34:37 | 0.057             |
| 03/27/2014 | 13:49:37 | 0.047             |
| 03/27/2014 | 14:04:37 | 0.044             |
| 03/27/2014 | 14:19:37 | 0.067             |
| 03/27/2014 | 14:34:37 | 0.049             |
| 03/27/2014 | 14:49:37 | 0.047             |
| 03/27/2014 | 15:04:37 | 0.029             |
| 03/27/2014 | 15:19:37 | 0.040             |
| 03/27/2014 | 15:34:37 | 0.025             |
| 03/27/2014 | 15:49:37 | 0.027             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104409  
 Test ID: 006  
 Test Abbreviation: MANUAL\_006  
 Start Date: 03/28/2014  
 Start Time: 07:45:36  
 Duration (dd:hh:mm:ss): 0:05:00:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 20  
 Notes:

| Statistics       | Channel:          | AEROSOL |
|------------------|-------------------|---------|
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.034             |         |
| Minimum:         | 0.027             |         |
| Time of Minimum: | 08:00:36          |         |
| Date of Minimum: | 03/28/2014        |         |
| Maximum:         | 0.041             |         |
| Time of Maximum: | 12:00:36          |         |
| Date of Maximum: | 03/28/2014        |         |

Calibration Sensor: AEROSOL  
 Cal. date 03/07/2014

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/28/2014 | 08:00:36 |         | 0.027             |

|            |          |                                    |
|------------|----------|------------------------------------|
|            |          | DT R11550 032414 @BH 3 DW DRILLING |
| 03/28/2014 | 08:15:36 | 0.028                              |
| 03/28/2014 | 08:30:36 | 0.036                              |
| 03/28/2014 | 08:45:36 | 0.034                              |
| 03/28/2014 | 09:00:36 | 0.039                              |
| 03/28/2014 | 09:15:36 | 0.031                              |
| 03/28/2014 | 09:30:36 | 0.029                              |
| 03/28/2014 | 09:45:36 | 0.030                              |
| 03/28/2014 | 10:00:36 | 0.031                              |
| 03/28/2014 | 10:15:36 | 0.032                              |
| 03/28/2014 | 10:30:36 | 0.037                              |
| 03/28/2014 | 10:45:36 | 0.030                              |
| 03/28/2014 | 11:00:36 | 0.034                              |
| 03/28/2014 | 11:15:36 | 0.030                              |
| 03/28/2014 | 11:30:36 | 0.034                              |
| 03/28/2014 | 11:45:36 | 0.039                              |
| 03/28/2014 | 12:00:36 | 0.041                              |
| 03/28/2014 | 12:15:36 | 0.040                              |
| 03/28/2014 | 12:30:36 | 0.039                              |
| 03/28/2014 | 12:45:36 | 0.041                              |

DT 17784 032514 UW T1 @BH8 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 03/25/2014  
Start Time: 09:27:50  
Duration (dd:hh:mm:ss): 0:00:33:00  
Log Interval (mm:ss): 01:00  
Number of points: 33  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.299  
Minimum: 0.016  
Time of Minimum: 09:33:50  
Date of Minimum: 03/25/2014  
Maximum: 0.612  
Time of Maximum: 09:58:50  
Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/25/2014 | 09:28:50 | 0.078             |
| 03/25/2014 | 09:29:50 | 0.023             |
| 03/25/2014 | 09:30:50 | 0.027             |
| 03/25/2014 | 09:31:50 | 0.018             |
| 03/25/2014 | 09:32:50 | 0.017             |
| 03/25/2014 | 09:33:50 | 0.016             |
| 03/25/2014 | 09:34:50 | 0.016             |
| 03/25/2014 | 09:35:50 | 0.016             |
| 03/25/2014 | 09:36:50 | 0.017             |
| 03/25/2014 | 09:37:50 | 0.016             |
| 03/25/2014 | 09:38:50 | 0.023             |
| 03/25/2014 | 09:39:50 | 0.017             |
| 03/25/2014 | 09:40:50 | 0.017             |
| 03/25/2014 | 09:41:50 | 0.017             |
| 03/25/2014 | 09:42:50 | 0.016             |
| 03/25/2014 | 09:43:50 | 0.017             |
| 03/25/2014 | 09:44:50 | 0.045             |
| 03/25/2014 | 09:45:50 | 0.571             |
| 03/25/2014 | 09:46:50 | 0.580             |
| 03/25/2014 | 09:47:50 | 0.582             |
| 03/25/2014 | 09:48:50 | 0.582             |
| 03/25/2014 | 09:49:50 | 0.585             |
| 03/25/2014 | 09:50:50 | 0.587             |
| 03/25/2014 | 09:51:50 | 0.589             |
| 03/25/2014 | 09:52:50 | 0.591             |
| 03/25/2014 | 09:53:50 | 0.594             |
| 03/25/2014 | 09:54:50 | 0.595             |
| 03/25/2014 | 09:55:50 | 0.596             |
| 03/25/2014 | 09:56:50 | 0.597             |
| 03/25/2014 | 09:57:50 | 0.600             |
| 03/25/2014 | 09:58:50 | 0.612             |
| 03/25/2014 | 09:59:50 | 0.605             |
| 03/25/2014 | 10:00:50 | 0.605             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104307  
 Test ID: 003  
 Test Abbreviation: MANUAL\_003  
 Start Date: 03/25/2014  
 Start Time: 10:03:42  
 Duration (dd:hh:mm:ss): 0:00:09:00  
 Log Interval (mm:ss): 01:00  
 Number of points: 9  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.619  
 Minimum: 0.603  
 Time of Minimum: 10:06:42  
 Date of Minimum: 03/25/2014  
 Maximum: 0.665  
 Time of Maximum: 10:04:42  
 Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
 Cal. date 05/16/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| 03/25/2014 | 10:04:42 | 0.665   |                   |
| 03/25/2014 | 10:05:42 | 0.607   |                   |
| 03/25/2014 | 10:06:42 | 0.603   |                   |
| 03/25/2014 | 10:07:42 | 0.603   |                   |
| 03/25/2014 | 10:08:42 | 0.606   |                   |
| 03/25/2014 | 10:09:42 | 0.619   |                   |
| 03/25/2014 | 10:10:42 | 0.612   |                   |
| 03/25/2014 | 10:11:42 | 0.622   |                   |
| 03/25/2014 | 10:12:42 | 0.635   |                   |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104307  
 Test ID: 004  
 Test Abbreviation: MANUAL\_004  
 Start Date: 03/25/2014  
 Start Time: 10:34:01  
 Duration (dd:hh:mm:ss): 0:02:00:00  
 Log Interval (mm:ss): 01:00  
 Number of points: 120  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.712  
 Minimum: 0.619  
 Time of Minimum: 10:35:01  
 Date of Minimum: 03/25/2014  
 Maximum: 0.814  
 Time of Maximum: 12:34:01  
 Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
 Cal. date 05/16/2013

Date Time AEROSOL

## DT 17784 032514 UW T1 @BH8 DRILLING

| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
|------------|----------|-------------------|
| 03/25/2014 | 10:35:01 | 0.619             |
| 03/25/2014 | 10:36:01 | 0.625             |
| 03/25/2014 | 10:37:01 | 0.623             |
| 03/25/2014 | 10:38:01 | 0.623             |
| 03/25/2014 | 10:39:01 | 0.626             |
| 03/25/2014 | 10:40:01 | 0.627             |
| 03/25/2014 | 10:41:01 | 0.627             |
| 03/25/2014 | 10:42:01 | 0.631             |
| 03/25/2014 | 10:43:01 | 0.630             |
| 03/25/2014 | 10:44:01 | 0.632             |
| 03/25/2014 | 10:45:01 | 0.633             |
| 03/25/2014 | 10:46:01 | 0.634             |
| 03/25/2014 | 10:47:01 | 0.637             |
| 03/25/2014 | 10:48:01 | 0.638             |
| 03/25/2014 | 10:49:01 | 0.639             |
| 03/25/2014 | 10:50:01 | 0.642             |
| 03/25/2014 | 10:51:01 | 0.642             |
| 03/25/2014 | 10:52:01 | 0.643             |
| 03/25/2014 | 10:53:01 | 0.646             |
| 03/25/2014 | 10:54:01 | 0.648             |
| 03/25/2014 | 10:55:01 | 0.648             |
| 03/25/2014 | 10:56:01 | 0.651             |
| 03/25/2014 | 10:57:01 | 0.651             |
| 03/25/2014 | 10:58:01 | 0.653             |
| 03/25/2014 | 10:59:01 | 0.655             |
| 03/25/2014 | 11:00:01 | 0.656             |
| 03/25/2014 | 11:01:01 | 0.658             |
| 03/25/2014 | 11:02:01 | 0.659             |
| 03/25/2014 | 11:03:01 | 0.661             |
| 03/25/2014 | 11:04:01 | 0.662             |
| 03/25/2014 | 11:05:01 | 0.663             |
| 03/25/2014 | 11:06:01 | 0.667             |
| 03/25/2014 | 11:07:01 | 0.666             |
| 03/25/2014 | 11:08:01 | 0.668             |
| 03/25/2014 | 11:09:01 | 0.670             |
| 03/25/2014 | 11:10:01 | 0.674             |
| 03/25/2014 | 11:11:01 | 0.677             |
| 03/25/2014 | 11:12:01 | 0.676             |
| 03/25/2014 | 11:13:01 | 0.676             |
| 03/25/2014 | 11:14:01 | 0.679             |
| 03/25/2014 | 11:15:01 | 0.680             |
| 03/25/2014 | 11:16:01 | 0.682             |
| 03/25/2014 | 11:17:01 | 0.684             |
| 03/25/2014 | 11:18:01 | 0.683             |
| 03/25/2014 | 11:19:01 | 0.684             |
| 03/25/2014 | 11:20:01 | 0.685             |
| 03/25/2014 | 11:21:01 | 0.687             |
| 03/25/2014 | 11:22:01 | 0.689             |
| 03/25/2014 | 11:23:01 | 0.691             |
| 03/25/2014 | 11:24:01 | 0.693             |
| 03/25/2014 | 11:25:01 | 0.694             |
| 03/25/2014 | 11:26:01 | 0.696             |
| 03/25/2014 | 11:27:01 | 0.698             |
| 03/25/2014 | 11:28:01 | 0.699             |
| 03/25/2014 | 11:29:01 | 0.700             |
| 03/25/2014 | 11:30:01 | 0.701             |
| 03/25/2014 | 11:31:01 | 0.704             |
| 03/25/2014 | 11:32:01 | 0.705             |
| 03/25/2014 | 11:33:01 | 0.707             |
| 03/25/2014 | 11:34:01 | 0.709             |
| 03/25/2014 | 11:35:01 | 0.712             |
| 03/25/2014 | 11:36:01 | 0.713             |

## DT 17784 032514 UW T1 @BH8 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/25/2014 | 11:37:01 | 0.715 |
| 03/25/2014 | 11:38:01 | 0.715 |
| 03/25/2014 | 11:39:01 | 0.716 |
| 03/25/2014 | 11:40:01 | 0.718 |
| 03/25/2014 | 11:41:01 | 0.721 |
| 03/25/2014 | 11:42:01 | 0.722 |
| 03/25/2014 | 11:43:01 | 0.724 |
| 03/25/2014 | 11:44:01 | 0.724 |
| 03/25/2014 | 11:45:01 | 0.726 |
| 03/25/2014 | 11:46:01 | 0.728 |
| 03/25/2014 | 11:47:01 | 0.730 |
| 03/25/2014 | 11:48:01 | 0.732 |
| 03/25/2014 | 11:49:01 | 0.733 |
| 03/25/2014 | 11:50:01 | 0.736 |
| 03/25/2014 | 11:51:01 | 0.740 |
| 03/25/2014 | 11:52:01 | 0.741 |
| 03/25/2014 | 11:53:01 | 0.742 |
| 03/25/2014 | 11:54:01 | 0.745 |
| 03/25/2014 | 11:55:01 | 0.746 |
| 03/25/2014 | 11:56:01 | 0.746 |
| 03/25/2014 | 11:57:01 | 0.747 |
| 03/25/2014 | 11:58:01 | 0.747 |
| 03/25/2014 | 11:59:01 | 0.748 |
| 03/25/2014 | 12:00:01 | 0.750 |
| 03/25/2014 | 12:01:01 | 0.752 |
| 03/25/2014 | 12:02:01 | 0.753 |
| 03/25/2014 | 12:03:01 | 0.755 |
| 03/25/2014 | 12:04:01 | 0.761 |
| 03/25/2014 | 12:05:01 | 0.758 |
| 03/25/2014 | 12:06:01 | 0.760 |
| 03/25/2014 | 12:07:01 | 0.762 |
| 03/25/2014 | 12:08:01 | 0.764 |
| 03/25/2014 | 12:09:01 | 0.766 |
| 03/25/2014 | 12:10:01 | 0.768 |
| 03/25/2014 | 12:11:01 | 0.769 |
| 03/25/2014 | 12:12:01 | 0.770 |
| 03/25/2014 | 12:13:01 | 0.772 |
| 03/25/2014 | 12:14:01 | 0.774 |
| 03/25/2014 | 12:15:01 | 0.778 |
| 03/25/2014 | 12:16:01 | 0.787 |
| 03/25/2014 | 12:17:01 | 0.780 |
| 03/25/2014 | 12:18:01 | 0.782 |
| 03/25/2014 | 12:19:01 | 0.784 |
| 03/25/2014 | 12:20:01 | 0.785 |
| 03/25/2014 | 12:21:01 | 0.788 |
| 03/25/2014 | 12:22:01 | 0.790 |
| 03/25/2014 | 12:23:01 | 0.793 |
| 03/25/2014 | 12:24:01 | 0.795 |
| 03/25/2014 | 12:25:01 | 0.796 |
| 03/25/2014 | 12:26:01 | 0.797 |
| 03/25/2014 | 12:27:01 | 0.798 |
| 03/25/2014 | 12:28:01 | 0.800 |
| 03/25/2014 | 12:29:01 | 0.801 |
| 03/25/2014 | 12:30:01 | 0.803 |
| 03/25/2014 | 12:31:01 | 0.805 |
| 03/25/2014 | 12:32:01 | 0.808 |
| 03/25/2014 | 12:33:01 | 0.808 |
| 03/25/2014 | 12:34:01 | 0.814 |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 005

DT 17784 032514 UW T1 @BH8 DRILLING  
 Test Abbreviation: MANUAL\_005  
 Start Date: 03/25/2014  
 Start Time: 12:42:08  
 Duration (dd:hh:mm:ss): 0:02:29:00  
 Log Interval (mm:ss): 01:00  
 Number of points: 149  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.027  
 Minimum: 0.021  
 Time of Minimum: 12:51:08  
 Date of Minimum: 03/25/2014  
 Maximum: 0.037  
 Time of Maximum: 13:07:08  
 Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
 Cal. date 05/16/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/25/2014 | 12:43:08 |         | 0.032             |
| 03/25/2014 | 12:44:08 |         | 0.022             |
| 03/25/2014 | 12:45:08 |         | 0.024             |
| 03/25/2014 | 12:46:08 |         | 0.024             |
| 03/25/2014 | 12:47:08 |         | 0.024             |
| 03/25/2014 | 12:48:08 |         | 0.026             |
| 03/25/2014 | 12:49:08 |         | 0.024             |
| 03/25/2014 | 12:50:08 |         | 0.022             |
| 03/25/2014 | 12:51:08 |         | 0.021             |
| 03/25/2014 | 12:52:08 |         | 0.022             |
| 03/25/2014 | 12:53:08 |         | 0.024             |
| 03/25/2014 | 12:54:08 |         | 0.025             |
| 03/25/2014 | 12:55:08 |         | 0.024             |
| 03/25/2014 | 12:56:08 |         | 0.023             |
| 03/25/2014 | 12:57:08 |         | 0.023             |
| 03/25/2014 | 12:58:08 |         | 0.027             |
| 03/25/2014 | 12:59:08 |         | 0.025             |
| 03/25/2014 | 13:00:08 |         | 0.023             |
| 03/25/2014 | 13:01:08 |         | 0.025             |
| 03/25/2014 | 13:02:08 |         | 0.024             |
| 03/25/2014 | 13:03:08 |         | 0.025             |
| 03/25/2014 | 13:04:08 |         | 0.026             |
| 03/25/2014 | 13:05:08 |         | 0.030             |
| 03/25/2014 | 13:06:08 |         | 0.033             |
| 03/25/2014 | 13:07:08 |         | 0.037             |
| 03/25/2014 | 13:08:08 |         | 0.028             |
| 03/25/2014 | 13:09:08 |         | 0.029             |
| 03/25/2014 | 13:10:08 |         | 0.024             |
| 03/25/2014 | 13:11:08 |         | 0.024             |
| 03/25/2014 | 13:12:08 |         | 0.023             |
| 03/25/2014 | 13:13:08 |         | 0.025             |
| 03/25/2014 | 13:14:08 |         | 0.024             |
| 03/25/2014 | 13:15:08 |         | 0.024             |
| 03/25/2014 | 13:16:08 |         | 0.024             |
| 03/25/2014 | 13:17:08 |         | 0.026             |
| 03/25/2014 | 13:18:08 |         | 0.024             |
| 03/25/2014 | 13:19:08 |         | 0.023             |
| 03/25/2014 | 13:20:08 |         | 0.024             |
| 03/25/2014 | 13:21:08 |         | 0.024             |
| 03/25/2014 | 13:22:08 |         | 0.026             |

## DT 17784 032514 UW T1 @BH8 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/25/2014 | 13:23:08 | 0.026 |
| 03/25/2014 | 13:24:08 | 0.025 |
| 03/25/2014 | 13:25:08 | 0.025 |
| 03/25/2014 | 13:26:08 | 0.026 |
| 03/25/2014 | 13:27:08 | 0.025 |
| 03/25/2014 | 13:28:08 | 0.025 |
| 03/25/2014 | 13:29:08 | 0.024 |
| 03/25/2014 | 13:30:08 | 0.026 |
| 03/25/2014 | 13:31:08 | 0.030 |
| 03/25/2014 | 13:32:08 | 0.029 |
| 03/25/2014 | 13:33:08 | 0.030 |
| 03/25/2014 | 13:34:08 | 0.029 |
| 03/25/2014 | 13:35:08 | 0.028 |
| 03/25/2014 | 13:36:08 | 0.028 |
| 03/25/2014 | 13:37:08 | 0.028 |
| 03/25/2014 | 13:38:08 | 0.029 |
| 03/25/2014 | 13:39:08 | 0.026 |
| 03/25/2014 | 13:40:08 | 0.024 |
| 03/25/2014 | 13:41:08 | 0.028 |
| 03/25/2014 | 13:42:08 | 0.027 |
| 03/25/2014 | 13:43:08 | 0.025 |
| 03/25/2014 | 13:44:08 | 0.025 |
| 03/25/2014 | 13:45:08 | 0.025 |
| 03/25/2014 | 13:46:08 | 0.025 |
| 03/25/2014 | 13:47:08 | 0.029 |
| 03/25/2014 | 13:48:08 | 0.027 |
| 03/25/2014 | 13:49:08 | 0.030 |
| 03/25/2014 | 13:50:08 | 0.027 |
| 03/25/2014 | 13:51:08 | 0.026 |
| 03/25/2014 | 13:52:08 | 0.027 |
| 03/25/2014 | 13:53:08 | 0.027 |
| 03/25/2014 | 13:54:08 | 0.031 |
| 03/25/2014 | 13:55:08 | 0.025 |
| 03/25/2014 | 13:56:08 | 0.026 |
| 03/25/2014 | 13:57:08 | 0.028 |
| 03/25/2014 | 13:58:08 | 0.027 |
| 03/25/2014 | 13:59:08 | 0.024 |
| 03/25/2014 | 14:00:08 | 0.026 |
| 03/25/2014 | 14:01:08 | 0.031 |
| 03/25/2014 | 14:02:08 | 0.027 |
| 03/25/2014 | 14:03:08 | 0.025 |
| 03/25/2014 | 14:04:08 | 0.026 |
| 03/25/2014 | 14:05:08 | 0.027 |
| 03/25/2014 | 14:06:08 | 0.028 |
| 03/25/2014 | 14:07:08 | 0.029 |
| 03/25/2014 | 14:08:08 | 0.027 |
| 03/25/2014 | 14:09:08 | 0.028 |
| 03/25/2014 | 14:10:08 | 0.028 |
| 03/25/2014 | 14:11:08 | 0.026 |
| 03/25/2014 | 14:12:08 | 0.026 |
| 03/25/2014 | 14:13:08 | 0.028 |
| 03/25/2014 | 14:14:08 | 0.026 |
| 03/25/2014 | 14:15:08 | 0.026 |
| 03/25/2014 | 14:16:08 | 0.026 |
| 03/25/2014 | 14:17:08 | 0.026 |
| 03/25/2014 | 14:18:08 | 0.026 |
| 03/25/2014 | 14:19:08 | 0.025 |
| 03/25/2014 | 14:20:08 | 0.024 |
| 03/25/2014 | 14:21:08 | 0.024 |
| 03/25/2014 | 14:22:08 | 0.025 |
| 03/25/2014 | 14:23:08 | 0.027 |
| 03/25/2014 | 14:24:08 | 0.028 |
| 03/25/2014 | 14:25:08 | 0.026 |

## DT 17784 032514 UW T1 @BH8 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/25/2014 | 14:26:08 | 0.027 |
| 03/25/2014 | 14:27:08 | 0.027 |
| 03/25/2014 | 14:28:08 | 0.026 |
| 03/25/2014 | 14:29:08 | 0.025 |
| 03/25/2014 | 14:30:08 | 0.026 |
| 03/25/2014 | 14:31:08 | 0.025 |
| 03/25/2014 | 14:32:08 | 0.026 |
| 03/25/2014 | 14:33:08 | 0.027 |
| 03/25/2014 | 14:34:08 | 0.027 |
| 03/25/2014 | 14:35:08 | 0.027 |
| 03/25/2014 | 14:36:08 | 0.026 |
| 03/25/2014 | 14:37:08 | 0.027 |
| 03/25/2014 | 14:38:08 | 0.029 |
| 03/25/2014 | 14:39:08 | 0.029 |
| 03/25/2014 | 14:40:08 | 0.027 |
| 03/25/2014 | 14:41:08 | 0.025 |
| 03/25/2014 | 14:42:08 | 0.025 |
| 03/25/2014 | 14:43:08 | 0.025 |
| 03/25/2014 | 14:44:08 | 0.025 |
| 03/25/2014 | 14:45:08 | 0.027 |
| 03/25/2014 | 14:46:08 | 0.029 |
| 03/25/2014 | 14:47:08 | 0.026 |
| 03/25/2014 | 14:48:08 | 0.025 |
| 03/25/2014 | 14:49:08 | 0.025 |
| 03/25/2014 | 14:50:08 | 0.028 |
| 03/25/2014 | 14:51:08 | 0.026 |
| 03/25/2014 | 14:52:08 | 0.026 |
| 03/25/2014 | 14:53:08 | 0.032 |
| 03/25/2014 | 14:54:08 | 0.025 |
| 03/25/2014 | 14:55:08 | 0.035 |
| 03/25/2014 | 14:56:08 | 0.026 |
| 03/25/2014 | 14:57:08 | 0.030 |
| 03/25/2014 | 14:58:08 | 0.035 |
| 03/25/2014 | 14:59:08 | 0.030 |
| 03/25/2014 | 15:00:08 | 0.030 |
| 03/25/2014 | 15:01:08 | 0.029 |
| 03/25/2014 | 15:02:08 | 0.034 |
| 03/25/2014 | 15:03:08 | 0.029 |
| 03/25/2014 | 15:04:08 | 0.028 |
| 03/25/2014 | 15:05:08 | 0.027 |
| 03/25/2014 | 15:06:08 | 0.027 |
| 03/25/2014 | 15:07:08 | 0.026 |
| 03/25/2014 | 15:08:08 | 0.032 |
| 03/25/2014 | 15:09:08 | 0.030 |
| 03/25/2014 | 15:10:08 | 0.026 |
| 03/25/2014 | 15:11:08 | 0.028 |

TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104404  
 Test ID: 011  
 Test Abbreviation: MANUAL\_011  
 Start Date: 03/25/2014  
 Start Time: 09:32:25  
 Duration (dd:hh:mm:ss): 0:05:30:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 22  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.029  
 Minimum: 0.016  
 Time of Minimum: 10:02:25  
 Date of Minimum: 03/25/2014  
 Maximum: 0.070  
 Time of Maximum: 14:17:25  
 Date of Maximum: 03/25/2014

Calibration Sensor: AEROSOL  
 Cal. date 06/27/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 03/25/2014 | 09:47:25 | 0.020   |                   |
| 03/25/2014 | 10:02:25 | 0.016   |                   |
| 03/25/2014 | 10:17:25 | 0.017   |                   |
| 03/25/2014 | 10:32:25 | 0.017   |                   |
| 03/25/2014 | 10:47:25 | 0.020   |                   |
| 03/25/2014 | 11:02:25 | 0.021   |                   |
| 03/25/2014 | 11:17:25 | 0.023   |                   |
| 03/25/2014 | 11:32:25 | 0.022   |                   |
| 03/25/2014 | 11:47:25 | 0.023   |                   |
| 03/25/2014 | 12:02:25 | 0.026   |                   |
| 03/25/2014 | 12:17:25 | 0.025   |                   |
| 03/25/2014 | 12:32:25 | 0.026   |                   |
| 03/25/2014 | 12:47:25 | 0.029   |                   |
| 03/25/2014 | 13:02:25 | 0.034   |                   |
| 03/25/2014 | 13:17:25 | 0.032   |                   |
| 03/25/2014 | 13:32:25 | 0.030   |                   |
| 03/25/2014 | 13:47:25 | 0.029   |                   |
| 03/25/2014 | 14:02:25 | 0.030   |                   |
| 03/25/2014 | 14:17:25 | 0.070   |                   |
| 03/25/2014 | 14:32:25 | 0.035   |                   |
| 03/25/2014 | 14:47:25 | 0.037   |                   |
| 03/25/2014 | 15:02:25 | 0.046   |                   |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 006  
Test Abbreviation: MANUAL\_006  
Start Date: 03/26/2014  
Start Time: 08:39:09  
Duration (dd:hh:mm:ss): 0:07:10:00  
Log Interval (mm:ss): 01:00  
Number of points: 430  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.020  
Minimum: 0.011  
Time of Minimum: 14:29:09  
Date of Minimum: 03/26/2014  
Maximum: 0.199  
Time of Maximum: 15:35:09  
Date of Maximum: 03/26/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/26/2014 | 08:40:09 |         | 0.039             |
| 03/26/2014 | 08:41:09 |         | 0.031             |
| 03/26/2014 | 08:42:09 |         | 0.030             |
| 03/26/2014 | 08:43:09 |         | 0.030             |
| 03/26/2014 | 08:44:09 |         | 0.031             |
| 03/26/2014 | 08:45:09 |         | 0.033             |
| 03/26/2014 | 08:46:09 |         | 0.033             |
| 03/26/2014 | 08:47:09 |         | 0.031             |
| 03/26/2014 | 08:48:09 |         | 0.033             |
| 03/26/2014 | 08:49:09 |         | 0.029             |
| 03/26/2014 | 08:50:09 |         | 0.031             |
| 03/26/2014 | 08:51:09 |         | 0.045             |
| 03/26/2014 | 08:52:09 |         | 0.039             |
| 03/26/2014 | 08:53:09 |         | 0.065             |
| 03/26/2014 | 08:54:09 |         | 0.032             |
| 03/26/2014 | 08:55:09 |         | 0.031             |
| 03/26/2014 | 08:56:09 |         | 0.034             |
| 03/26/2014 | 08:57:09 |         | 0.028             |
| 03/26/2014 | 08:58:09 |         | 0.028             |
| 03/26/2014 | 08:59:09 |         | 0.029             |
| 03/26/2014 | 09:00:09 |         | 0.039             |
| 03/26/2014 | 09:01:09 |         | 0.032             |
| 03/26/2014 | 09:02:09 |         | 0.032             |
| 03/26/2014 | 09:03:09 |         | 0.029             |
| 03/26/2014 | 09:04:09 |         | 0.028             |
| 03/26/2014 | 09:05:09 |         | 0.028             |
| 03/26/2014 | 09:06:09 |         | 0.029             |
| 03/26/2014 | 09:07:09 |         | 0.028             |
| 03/26/2014 | 09:08:09 |         | 0.034             |
| 03/26/2014 | 09:09:09 |         | 0.027             |
| 03/26/2014 | 09:10:09 |         | 0.026             |
| 03/26/2014 | 09:11:09 |         | 0.027             |
| 03/26/2014 | 09:12:09 |         | 0.026             |
| 03/26/2014 | 09:13:09 |         | 0.026             |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 09:14:09 | 0.026 |
| 03/26/2014 | 09:15:09 | 0.026 |
| 03/26/2014 | 09:16:09 | 0.027 |
| 03/26/2014 | 09:17:09 | 0.027 |
| 03/26/2014 | 09:18:09 | 0.026 |
| 03/26/2014 | 09:19:09 | 0.026 |
| 03/26/2014 | 09:20:09 | 0.026 |
| 03/26/2014 | 09:21:09 | 0.026 |
| 03/26/2014 | 09:22:09 | 0.026 |
| 03/26/2014 | 09:23:09 | 0.025 |
| 03/26/2014 | 09:24:09 | 0.025 |
| 03/26/2014 | 09:25:09 | 0.024 |
| 03/26/2014 | 09:26:09 | 0.022 |
| 03/26/2014 | 09:27:09 | 0.023 |
| 03/26/2014 | 09:28:09 | 0.023 |
| 03/26/2014 | 09:29:09 | 0.022 |
| 03/26/2014 | 09:30:09 | 0.024 |
| 03/26/2014 | 09:31:09 | 0.022 |
| 03/26/2014 | 09:32:09 | 0.021 |
| 03/26/2014 | 09:33:09 | 0.024 |
| 03/26/2014 | 09:34:09 | 0.023 |
| 03/26/2014 | 09:35:09 | 0.023 |
| 03/26/2014 | 09:36:09 | 0.028 |
| 03/26/2014 | 09:37:09 | 0.034 |
| 03/26/2014 | 09:38:09 | 0.029 |
| 03/26/2014 | 09:39:09 | 0.061 |
| 03/26/2014 | 09:40:09 | 0.021 |
| 03/26/2014 | 09:41:09 | 0.022 |
| 03/26/2014 | 09:42:09 | 0.026 |
| 03/26/2014 | 09:43:09 | 0.024 |
| 03/26/2014 | 09:44:09 | 0.027 |
| 03/26/2014 | 09:45:09 | 0.028 |
| 03/26/2014 | 09:46:09 | 0.025 |
| 03/26/2014 | 09:47:09 | 0.025 |
| 03/26/2014 | 09:48:09 | 0.028 |
| 03/26/2014 | 09:49:09 | 0.022 |
| 03/26/2014 | 09:50:09 | 0.022 |
| 03/26/2014 | 09:51:09 | 0.024 |
| 03/26/2014 | 09:52:09 | 0.032 |
| 03/26/2014 | 09:53:09 | 0.025 |
| 03/26/2014 | 09:54:09 | 0.026 |
| 03/26/2014 | 09:55:09 | 0.025 |
| 03/26/2014 | 09:56:09 | 0.024 |
| 03/26/2014 | 09:57:09 | 0.026 |
| 03/26/2014 | 09:58:09 | 0.023 |
| 03/26/2014 | 09:59:09 | 0.022 |
| 03/26/2014 | 10:00:09 | 0.021 |
| 03/26/2014 | 10:01:09 | 0.028 |
| 03/26/2014 | 10:02:09 | 0.035 |
| 03/26/2014 | 10:03:09 | 0.025 |
| 03/26/2014 | 10:04:09 | 0.022 |
| 03/26/2014 | 10:05:09 | 0.022 |
| 03/26/2014 | 10:06:09 | 0.025 |
| 03/26/2014 | 10:07:09 | 0.032 |
| 03/26/2014 | 10:08:09 | 0.027 |
| 03/26/2014 | 10:09:09 | 0.029 |
| 03/26/2014 | 10:10:09 | 0.026 |
| 03/26/2014 | 10:11:09 | 0.041 |
| 03/26/2014 | 10:12:09 | 0.029 |
| 03/26/2014 | 10:13:09 | 0.022 |
| 03/26/2014 | 10:14:09 | 0.023 |
| 03/26/2014 | 10:15:09 | 0.022 |
| 03/26/2014 | 10:16:09 | 0.023 |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 10:17:09 | 0.023 |
| 03/26/2014 | 10:18:09 | 0.023 |
| 03/26/2014 | 10:19:09 | 0.023 |
| 03/26/2014 | 10:20:09 | 0.022 |
| 03/26/2014 | 10:21:09 | 0.022 |
| 03/26/2014 | 10:22:09 | 0.022 |
| 03/26/2014 | 10:23:09 | 0.021 |
| 03/26/2014 | 10:24:09 | 0.022 |
| 03/26/2014 | 10:25:09 | 0.022 |
| 03/26/2014 | 10:26:09 | 0.022 |
| 03/26/2014 | 10:27:09 | 0.020 |
| 03/26/2014 | 10:28:09 | 0.021 |
| 03/26/2014 | 10:29:09 | 0.022 |
| 03/26/2014 | 10:30:09 | 0.021 |
| 03/26/2014 | 10:31:09 | 0.021 |
| 03/26/2014 | 10:32:09 | 0.023 |
| 03/26/2014 | 10:33:09 | 0.024 |
| 03/26/2014 | 10:34:09 | 0.019 |
| 03/26/2014 | 10:35:09 | 0.019 |
| 03/26/2014 | 10:36:09 | 0.021 |
| 03/26/2014 | 10:37:09 | 0.019 |
| 03/26/2014 | 10:38:09 | 0.021 |
| 03/26/2014 | 10:39:09 | 0.018 |
| 03/26/2014 | 10:40:09 | 0.018 |
| 03/26/2014 | 10:41:09 | 0.021 |
| 03/26/2014 | 10:42:09 | 0.018 |
| 03/26/2014 | 10:43:09 | 0.018 |
| 03/26/2014 | 10:44:09 | 0.018 |
| 03/26/2014 | 10:45:09 | 0.019 |
| 03/26/2014 | 10:46:09 | 0.019 |
| 03/26/2014 | 10:47:09 | 0.019 |
| 03/26/2014 | 10:48:09 | 0.018 |
| 03/26/2014 | 10:49:09 | 0.021 |
| 03/26/2014 | 10:50:09 | 0.019 |
| 03/26/2014 | 10:51:09 | 0.019 |
| 03/26/2014 | 10:52:09 | 0.018 |
| 03/26/2014 | 10:53:09 | 0.022 |
| 03/26/2014 | 10:54:09 | 0.018 |
| 03/26/2014 | 10:55:09 | 0.018 |
| 03/26/2014 | 10:56:09 | 0.019 |
| 03/26/2014 | 10:57:09 | 0.017 |
| 03/26/2014 | 10:58:09 | 0.018 |
| 03/26/2014 | 10:59:09 | 0.026 |
| 03/26/2014 | 11:00:09 | 0.028 |
| 03/26/2014 | 11:01:09 | 0.030 |
| 03/26/2014 | 11:02:09 | 0.023 |
| 03/26/2014 | 11:03:09 | 0.020 |
| 03/26/2014 | 11:04:09 | 0.017 |
| 03/26/2014 | 11:05:09 | 0.017 |
| 03/26/2014 | 11:06:09 | 0.019 |
| 03/26/2014 | 11:07:09 | 0.018 |
| 03/26/2014 | 11:08:09 | 0.017 |
| 03/26/2014 | 11:09:09 | 0.017 |
| 03/26/2014 | 11:10:09 | 0.018 |
| 03/26/2014 | 11:11:09 | 0.017 |
| 03/26/2014 | 11:12:09 | 0.018 |
| 03/26/2014 | 11:13:09 | 0.017 |
| 03/26/2014 | 11:14:09 | 0.016 |
| 03/26/2014 | 11:15:09 | 0.017 |
| 03/26/2014 | 11:16:09 | 0.018 |
| 03/26/2014 | 11:17:09 | 0.018 |
| 03/26/2014 | 11:18:09 | 0.018 |
| 03/26/2014 | 11:19:09 | 0.017 |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 11:20:09 | 0.018 |
| 03/26/2014 | 11:21:09 | 0.017 |
| 03/26/2014 | 11:22:09 | 0.024 |
| 03/26/2014 | 11:23:09 | 0.017 |
| 03/26/2014 | 11:24:09 | 0.017 |
| 03/26/2014 | 11:25:09 | 0.017 |
| 03/26/2014 | 11:26:09 | 0.017 |
| 03/26/2014 | 11:27:09 | 0.024 |
| 03/26/2014 | 11:28:09 | 0.021 |
| 03/26/2014 | 11:29:09 | 0.018 |
| 03/26/2014 | 11:30:09 | 0.018 |
| 03/26/2014 | 11:31:09 | 0.018 |
| 03/26/2014 | 11:32:09 | 0.018 |
| 03/26/2014 | 11:33:09 | 0.018 |
| 03/26/2014 | 11:34:09 | 0.019 |
| 03/26/2014 | 11:35:09 | 0.019 |
| 03/26/2014 | 11:36:09 | 0.017 |
| 03/26/2014 | 11:37:09 | 0.017 |
| 03/26/2014 | 11:38:09 | 0.017 |
| 03/26/2014 | 11:39:09 | 0.019 |
| 03/26/2014 | 11:40:09 | 0.018 |
| 03/26/2014 | 11:41:09 | 0.021 |
| 03/26/2014 | 11:42:09 | 0.019 |
| 03/26/2014 | 11:43:09 | 0.018 |
| 03/26/2014 | 11:44:09 | 0.019 |
| 03/26/2014 | 11:45:09 | 0.018 |
| 03/26/2014 | 11:46:09 | 0.022 |
| 03/26/2014 | 11:47:09 | 0.026 |
| 03/26/2014 | 11:48:09 | 0.019 |
| 03/26/2014 | 11:49:09 | 0.019 |
| 03/26/2014 | 11:50:09 | 0.017 |
| 03/26/2014 | 11:51:09 | 0.019 |
| 03/26/2014 | 11:52:09 | 0.022 |
| 03/26/2014 | 11:53:09 | 0.018 |
| 03/26/2014 | 11:54:09 | 0.018 |
| 03/26/2014 | 11:55:09 | 0.018 |
| 03/26/2014 | 11:56:09 | 0.020 |
| 03/26/2014 | 11:57:09 | 0.017 |
| 03/26/2014 | 11:58:09 | 0.018 |
| 03/26/2014 | 11:59:09 | 0.017 |
| 03/26/2014 | 12:00:09 | 0.017 |
| 03/26/2014 | 12:01:09 | 0.017 |
| 03/26/2014 | 12:02:09 | 0.022 |
| 03/26/2014 | 12:03:09 | 0.019 |
| 03/26/2014 | 12:04:09 | 0.022 |
| 03/26/2014 | 12:05:09 | 0.019 |
| 03/26/2014 | 12:06:09 | 0.019 |
| 03/26/2014 | 12:07:09 | 0.018 |
| 03/26/2014 | 12:08:09 | 0.017 |
| 03/26/2014 | 12:09:09 | 0.017 |
| 03/26/2014 | 12:10:09 | 0.018 |
| 03/26/2014 | 12:11:09 | 0.020 |
| 03/26/2014 | 12:12:09 | 0.018 |
| 03/26/2014 | 12:13:09 | 0.020 |
| 03/26/2014 | 12:14:09 | 0.019 |
| 03/26/2014 | 12:15:09 | 0.018 |
| 03/26/2014 | 12:16:09 | 0.018 |
| 03/26/2014 | 12:17:09 | 0.019 |
| 03/26/2014 | 12:18:09 | 0.035 |
| 03/26/2014 | 12:19:09 | 0.018 |
| 03/26/2014 | 12:20:09 | 0.042 |
| 03/26/2014 | 12:21:09 | 0.018 |
| 03/26/2014 | 12:22:09 | 0.017 |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 12:23:09 | 0.017 |
| 03/26/2014 | 12:24:09 | 0.016 |
| 03/26/2014 | 12:25:09 | 0.016 |
| 03/26/2014 | 12:26:09 | 0.016 |
| 03/26/2014 | 12:27:09 | 0.016 |
| 03/26/2014 | 12:28:09 | 0.016 |
| 03/26/2014 | 12:29:09 | 0.016 |
| 03/26/2014 | 12:30:09 | 0.016 |
| 03/26/2014 | 12:31:09 | 0.017 |
| 03/26/2014 | 12:32:09 | 0.018 |
| 03/26/2014 | 12:33:09 | 0.029 |
| 03/26/2014 | 12:34:09 | 0.017 |
| 03/26/2014 | 12:35:09 | 0.019 |
| 03/26/2014 | 12:36:09 | 0.019 |
| 03/26/2014 | 12:37:09 | 0.017 |
| 03/26/2014 | 12:38:09 | 0.016 |
| 03/26/2014 | 12:39:09 | 0.016 |
| 03/26/2014 | 12:40:09 | 0.017 |
| 03/26/2014 | 12:41:09 | 0.017 |
| 03/26/2014 | 12:42:09 | 0.016 |
| 03/26/2014 | 12:43:09 | 0.017 |
| 03/26/2014 | 12:44:09 | 0.018 |
| 03/26/2014 | 12:45:09 | 0.016 |
| 03/26/2014 | 12:46:09 | 0.017 |
| 03/26/2014 | 12:47:09 | 0.017 |
| 03/26/2014 | 12:48:09 | 0.017 |
| 03/26/2014 | 12:49:09 | 0.017 |
| 03/26/2014 | 12:50:09 | 0.017 |
| 03/26/2014 | 12:51:09 | 0.017 |
| 03/26/2014 | 12:52:09 | 0.017 |
| 03/26/2014 | 12:53:09 | 0.019 |
| 03/26/2014 | 12:54:09 | 0.017 |
| 03/26/2014 | 12:55:09 | 0.036 |
| 03/26/2014 | 12:56:09 | 0.019 |
| 03/26/2014 | 12:57:09 | 0.016 |
| 03/26/2014 | 12:58:09 | 0.016 |
| 03/26/2014 | 12:59:09 | 0.015 |
| 03/26/2014 | 13:00:09 | 0.015 |
| 03/26/2014 | 13:01:09 | 0.015 |
| 03/26/2014 | 13:02:09 | 0.016 |
| 03/26/2014 | 13:03:09 | 0.016 |
| 03/26/2014 | 13:04:09 | 0.015 |
| 03/26/2014 | 13:05:09 | 0.020 |
| 03/26/2014 | 13:06:09 | 0.023 |
| 03/26/2014 | 13:07:09 | 0.017 |
| 03/26/2014 | 13:08:09 | 0.016 |
| 03/26/2014 | 13:09:09 | 0.017 |
| 03/26/2014 | 13:10:09 | 0.015 |
| 03/26/2014 | 13:11:09 | 0.017 |
| 03/26/2014 | 13:12:09 | 0.020 |
| 03/26/2014 | 13:13:09 | 0.016 |
| 03/26/2014 | 13:14:09 | 0.017 |
| 03/26/2014 | 13:15:09 | 0.018 |
| 03/26/2014 | 13:16:09 | 0.017 |
| 03/26/2014 | 13:17:09 | 0.016 |
| 03/26/2014 | 13:18:09 | 0.016 |
| 03/26/2014 | 13:19:09 | 0.015 |
| 03/26/2014 | 13:20:09 | 0.018 |
| 03/26/2014 | 13:21:09 | 0.014 |
| 03/26/2014 | 13:22:09 | 0.015 |
| 03/26/2014 | 13:23:09 | 0.015 |
| 03/26/2014 | 13:24:09 | 0.016 |
| 03/26/2014 | 13:25:09 | 0.016 |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 13:26:09 | 0.018 |
| 03/26/2014 | 13:27:09 | 0.015 |
| 03/26/2014 | 13:28:09 | 0.015 |
| 03/26/2014 | 13:29:09 | 0.015 |
| 03/26/2014 | 13:30:09 | 0.015 |
| 03/26/2014 | 13:31:09 | 0.014 |
| 03/26/2014 | 13:32:09 | 0.014 |
| 03/26/2014 | 13:33:09 | 0.015 |
| 03/26/2014 | 13:34:09 | 0.015 |
| 03/26/2014 | 13:35:09 | 0.015 |
| 03/26/2014 | 13:36:09 | 0.015 |
| 03/26/2014 | 13:37:09 | 0.024 |
| 03/26/2014 | 13:38:09 | 0.015 |
| 03/26/2014 | 13:39:09 | 0.014 |
| 03/26/2014 | 13:40:09 | 0.014 |
| 03/26/2014 | 13:41:09 | 0.014 |
| 03/26/2014 | 13:42:09 | 0.014 |
| 03/26/2014 | 13:43:09 | 0.012 |
| 03/26/2014 | 13:44:09 | 0.014 |
| 03/26/2014 | 13:45:09 | 0.013 |
| 03/26/2014 | 13:46:09 | 0.013 |
| 03/26/2014 | 13:47:09 | 0.014 |
| 03/26/2014 | 13:48:09 | 0.014 |
| 03/26/2014 | 13:49:09 | 0.013 |
| 03/26/2014 | 13:50:09 | 0.013 |
| 03/26/2014 | 13:51:09 | 0.014 |
| 03/26/2014 | 13:52:09 | 0.051 |
| 03/26/2014 | 13:53:09 | 0.018 |
| 03/26/2014 | 13:54:09 | 0.015 |
| 03/26/2014 | 13:55:09 | 0.015 |
| 03/26/2014 | 13:56:09 | 0.013 |
| 03/26/2014 | 13:57:09 | 0.014 |
| 03/26/2014 | 13:58:09 | 0.012 |
| 03/26/2014 | 13:59:09 | 0.015 |
| 03/26/2014 | 14:00:09 | 0.013 |
| 03/26/2014 | 14:01:09 | 0.012 |
| 03/26/2014 | 14:02:09 | 0.014 |
| 03/26/2014 | 14:03:09 | 0.013 |
| 03/26/2014 | 14:04:09 | 0.024 |
| 03/26/2014 | 14:05:09 | 0.016 |
| 03/26/2014 | 14:06:09 | 0.012 |
| 03/26/2014 | 14:07:09 | 0.013 |
| 03/26/2014 | 14:08:09 | 0.016 |
| 03/26/2014 | 14:09:09 | 0.013 |
| 03/26/2014 | 14:10:09 | 0.015 |
| 03/26/2014 | 14:11:09 | 0.019 |
| 03/26/2014 | 14:12:09 | 0.012 |
| 03/26/2014 | 14:13:09 | 0.012 |
| 03/26/2014 | 14:14:09 | 0.013 |
| 03/26/2014 | 14:15:09 | 0.014 |
| 03/26/2014 | 14:16:09 | 0.014 |
| 03/26/2014 | 14:17:09 | 0.015 |
| 03/26/2014 | 14:18:09 | 0.014 |
| 03/26/2014 | 14:19:09 | 0.013 |
| 03/26/2014 | 14:20:09 | 0.071 |
| 03/26/2014 | 14:21:09 | 0.016 |
| 03/26/2014 | 14:22:09 | 0.012 |
| 03/26/2014 | 14:23:09 | 0.012 |
| 03/26/2014 | 14:24:09 | 0.012 |
| 03/26/2014 | 14:25:09 | 0.016 |
| 03/26/2014 | 14:26:09 | 0.018 |
| 03/26/2014 | 14:27:09 | 0.022 |
| 03/26/2014 | 14:28:09 | 0.012 |

## DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 14:29:09 | 0.011 |
| 03/26/2014 | 14:30:09 | 0.012 |
| 03/26/2014 | 14:31:09 | 0.014 |
| 03/26/2014 | 14:32:09 | 0.034 |
| 03/26/2014 | 14:33:09 | 0.012 |
| 03/26/2014 | 14:34:09 | 0.012 |
| 03/26/2014 | 14:35:09 | 0.012 |
| 03/26/2014 | 14:36:09 | 0.011 |
| 03/26/2014 | 14:37:09 | 0.014 |
| 03/26/2014 | 14:38:09 | 0.013 |
| 03/26/2014 | 14:39:09 | 0.013 |
| 03/26/2014 | 14:40:09 | 0.012 |
| 03/26/2014 | 14:41:09 | 0.012 |
| 03/26/2014 | 14:42:09 | 0.013 |
| 03/26/2014 | 14:43:09 | 0.012 |
| 03/26/2014 | 14:44:09 | 0.016 |
| 03/26/2014 | 14:45:09 | 0.014 |
| 03/26/2014 | 14:46:09 | 0.013 |
| 03/26/2014 | 14:47:09 | 0.013 |
| 03/26/2014 | 14:48:09 | 0.013 |
| 03/26/2014 | 14:49:09 | 0.013 |
| 03/26/2014 | 14:50:09 | 0.013 |
| 03/26/2014 | 14:51:09 | 0.013 |
| 03/26/2014 | 14:52:09 | 0.012 |
| 03/26/2014 | 14:53:09 | 0.014 |
| 03/26/2014 | 14:54:09 | 0.017 |
| 03/26/2014 | 14:55:09 | 0.013 |
| 03/26/2014 | 14:56:09 | 0.013 |
| 03/26/2014 | 14:57:09 | 0.012 |
| 03/26/2014 | 14:58:09 | 0.013 |
| 03/26/2014 | 14:59:09 | 0.023 |
| 03/26/2014 | 15:00:09 | 0.034 |
| 03/26/2014 | 15:01:09 | 0.017 |
| 03/26/2014 | 15:02:09 | 0.015 |
| 03/26/2014 | 15:03:09 | 0.013 |
| 03/26/2014 | 15:04:09 | 0.048 |
| 03/26/2014 | 15:05:09 | 0.017 |
| 03/26/2014 | 15:06:09 | 0.037 |
| 03/26/2014 | 15:07:09 | 0.034 |
| 03/26/2014 | 15:08:09 | 0.014 |
| 03/26/2014 | 15:09:09 | 0.014 |
| 03/26/2014 | 15:10:09 | 0.013 |
| 03/26/2014 | 15:11:09 | 0.013 |
| 03/26/2014 | 15:12:09 | 0.013 |
| 03/26/2014 | 15:13:09 | 0.013 |
| 03/26/2014 | 15:14:09 | 0.013 |
| 03/26/2014 | 15:15:09 | 0.013 |
| 03/26/2014 | 15:16:09 | 0.012 |
| 03/26/2014 | 15:17:09 | 0.012 |
| 03/26/2014 | 15:18:09 | 0.013 |
| 03/26/2014 | 15:19:09 | 0.015 |
| 03/26/2014 | 15:20:09 | 0.013 |
| 03/26/2014 | 15:21:09 | 0.013 |
| 03/26/2014 | 15:22:09 | 0.013 |
| 03/26/2014 | 15:23:09 | 0.013 |
| 03/26/2014 | 15:24:09 | 0.015 |
| 03/26/2014 | 15:25:09 | 0.014 |
| 03/26/2014 | 15:26:09 | 0.016 |
| 03/26/2014 | 15:27:09 | 0.033 |
| 03/26/2014 | 15:28:09 | 0.013 |
| 03/26/2014 | 15:29:09 | 0.013 |
| 03/26/2014 | 15:30:09 | 0.014 |
| 03/26/2014 | 15:31:09 | 0.014 |

DT 17784 032614 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/26/2014 | 15:32:09 | 0.013 |
| 03/26/2014 | 15:33:09 | 0.012 |
| 03/26/2014 | 15:34:09 | 0.015 |
| 03/26/2014 | 15:35:09 | 0.199 |
| 03/26/2014 | 15:36:09 | 0.015 |
| 03/26/2014 | 15:37:09 | 0.013 |
| 03/26/2014 | 15:38:09 | 0.017 |
| 03/26/2014 | 15:39:09 | 0.015 |
| 03/26/2014 | 15:40:09 | 0.014 |
| 03/26/2014 | 15:41:09 | 0.014 |
| 03/26/2014 | 15:42:09 | 0.014 |
| 03/26/2014 | 15:43:09 | 0.018 |
| 03/26/2014 | 15:44:09 | 0.016 |
| 03/26/2014 | 15:45:09 | 0.016 |
| 03/26/2014 | 15:46:09 | 0.016 |
| 03/26/2014 | 15:47:09 | 0.015 |
| 03/26/2014 | 15:48:09 | 0.014 |
| 03/26/2014 | 15:49:09 | 0.015 |

DT R11553 032614 @BH12 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 012  
Test Abbreviation: MANUAL\_012  
Start Date: 03/26/2014  
Start Time: 08:38:19  
Duration (dd:hh:mm:ss): 0:07:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 28  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.006  
Minimum: 0.001  
Time of Minimum: 10:38:19  
Date of Minimum: 03/26/2014  
Maximum: 0.020  
Time of Maximum: 09:08:19  
Date of Maximum: 03/26/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 03/26/2014 | 08:53:19 |         | 0.015             |
| 03/26/2014 | 09:08:19 |         | 0.020             |
| 03/26/2014 | 09:23:19 |         | 0.008             |
| 03/26/2014 | 09:38:19 |         | 0.012             |
| 03/26/2014 | 09:53:19 |         | 0.010             |
| 03/26/2014 | 10:08:19 |         | 0.009             |
| 03/26/2014 | 10:23:19 |         | 0.010             |
| 03/26/2014 | 10:38:19 |         | 0.001             |
| 03/26/2014 | 10:53:19 |         | 0.004             |
| 03/26/2014 | 11:08:19 |         | 0.012             |
| 03/26/2014 | 11:23:19 |         | 0.006             |
| 03/26/2014 | 11:38:19 |         | 0.001             |
| 03/26/2014 | 11:53:19 |         | 0.001             |
| 03/26/2014 | 12:08:19 |         | 0.001             |
| 03/26/2014 | 12:23:19 |         | 0.003             |
| 03/26/2014 | 12:38:19 |         | 0.008             |
| 03/26/2014 | 12:53:19 |         | 0.004             |
| 03/26/2014 | 13:08:19 |         | 0.006             |
| 03/26/2014 | 13:23:19 |         | 0.003             |
| 03/26/2014 | 13:38:19 |         | 0.001             |
| 03/26/2014 | 13:53:19 |         | 0.006             |
| 03/26/2014 | 14:08:19 |         | 0.005             |
| 03/26/2014 | 14:23:19 |         | 0.002             |
| 03/26/2014 | 14:38:19 |         | 0.002             |
| 03/26/2014 | 14:53:19 |         | 0.001             |
| 03/26/2014 | 15:08:19 |         | 0.003             |
| 03/26/2014 | 15:23:19 |         | 0.007             |
| 03/26/2014 | 15:38:19 |         | 0.005             |

DT 17784 032714 UW @BH12 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 007  
Test Abbreviation: MANUAL\_007  
Start Date: 03/27/2014  
Start Time: 08:53:33  
Duration (dd:hh:mm:ss): 0:06:39:00  
Log Interval (mm:ss): 01:00  
Number of points: 399  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.029  
Minimum: -0.002  
Time of Minimum: 12:58:33  
Date of Minimum: 03/27/2014  
Maximum: 0.079  
Time of Maximum: 12:32:33  
Date of Maximum: 03/27/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/27/2014 | 08:54:33 | 0.071             |
| 03/27/2014 | 08:55:33 | 0.038             |
| 03/27/2014 | 08:56:33 | 0.035             |
| 03/27/2014 | 08:57:33 | 0.039             |
| 03/27/2014 | 08:58:33 | 0.035             |
| 03/27/2014 | 08:59:33 | 0.035             |
| 03/27/2014 | 09:00:33 | 0.035             |
| 03/27/2014 | 09:01:33 | 0.039             |
| 03/27/2014 | 09:02:33 | 0.037             |
| 03/27/2014 | 09:03:33 | 0.037             |
| 03/27/2014 | 09:04:33 | 0.036             |
| 03/27/2014 | 09:05:33 | 0.038             |
| 03/27/2014 | 09:06:33 | 0.036             |
| 03/27/2014 | 09:07:33 | 0.034             |
| 03/27/2014 | 09:08:33 | 0.033             |
| 03/27/2014 | 09:09:33 | 0.036             |
| 03/27/2014 | 09:10:33 | 0.041             |
| 03/27/2014 | 09:11:33 | 0.035             |
| 03/27/2014 | 09:12:33 | 0.034             |
| 03/27/2014 | 09:13:33 | 0.035             |
| 03/27/2014 | 09:14:33 | 0.037             |
| 03/27/2014 | 09:15:33 | 0.034             |
| 03/27/2014 | 09:16:33 | 0.048             |
| 03/27/2014 | 09:17:33 | 0.040             |
| 03/27/2014 | 09:18:33 | 0.037             |
| 03/27/2014 | 09:19:33 | 0.035             |
| 03/27/2014 | 09:20:33 | 0.035             |
| 03/27/2014 | 09:21:33 | 0.035             |
| 03/27/2014 | 09:22:33 | 0.036             |
| 03/27/2014 | 09:23:33 | 0.035             |
| 03/27/2014 | 09:24:33 | 0.036             |
| 03/27/2014 | 09:25:33 | 0.035             |
| 03/27/2014 | 09:26:33 | 0.036             |
| 03/27/2014 | 09:27:33 | 0.033             |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 09:28:33 | 0.033 |
| 03/27/2014 | 09:29:33 | 0.034 |
| 03/27/2014 | 09:30:33 | 0.034 |
| 03/27/2014 | 09:31:33 | 0.039 |
| 03/27/2014 | 09:32:33 | 0.035 |
| 03/27/2014 | 09:33:33 | 0.035 |
| 03/27/2014 | 09:34:33 | 0.034 |
| 03/27/2014 | 09:35:33 | 0.034 |
| 03/27/2014 | 09:36:33 | 0.034 |
| 03/27/2014 | 09:37:33 | 0.033 |
| 03/27/2014 | 09:38:33 | 0.032 |
| 03/27/2014 | 09:39:33 | 0.033 |
| 03/27/2014 | 09:40:33 | 0.035 |
| 03/27/2014 | 09:41:33 | 0.037 |
| 03/27/2014 | 09:42:33 | 0.036 |
| 03/27/2014 | 09:43:33 | 0.034 |
| 03/27/2014 | 09:44:33 | 0.033 |
| 03/27/2014 | 09:45:33 | 0.036 |
| 03/27/2014 | 09:46:33 | 0.033 |
| 03/27/2014 | 09:47:33 | 0.033 |
| 03/27/2014 | 09:48:33 | 0.034 |
| 03/27/2014 | 09:49:33 | 0.035 |
| 03/27/2014 | 09:50:33 | 0.035 |
| 03/27/2014 | 09:51:33 | 0.040 |
| 03/27/2014 | 09:52:33 | 0.035 |
| 03/27/2014 | 09:53:33 | 0.036 |
| 03/27/2014 | 09:54:33 | 0.034 |
| 03/27/2014 | 09:55:33 | 0.039 |
| 03/27/2014 | 09:56:33 | 0.040 |
| 03/27/2014 | 09:57:33 | 0.038 |
| 03/27/2014 | 09:58:33 | 0.045 |
| 03/27/2014 | 09:59:33 | 0.039 |
| 03/27/2014 | 10:00:33 | 0.039 |
| 03/27/2014 | 10:01:33 | 0.035 |
| 03/27/2014 | 10:02:33 | 0.035 |
| 03/27/2014 | 10:03:33 | 0.033 |
| 03/27/2014 | 10:04:33 | 0.033 |
| 03/27/2014 | 10:05:33 | 0.033 |
| 03/27/2014 | 10:06:33 | 0.033 |
| 03/27/2014 | 10:07:33 | 0.034 |
| 03/27/2014 | 10:08:33 | 0.034 |
| 03/27/2014 | 10:09:33 | 0.035 |
| 03/27/2014 | 10:10:33 | 0.037 |
| 03/27/2014 | 10:11:33 | 0.034 |
| 03/27/2014 | 10:12:33 | 0.034 |
| 03/27/2014 | 10:13:33 | 0.035 |
| 03/27/2014 | 10:14:33 | 0.034 |
| 03/27/2014 | 10:15:33 | 0.035 |
| 03/27/2014 | 10:16:33 | 0.036 |
| 03/27/2014 | 10:17:33 | 0.034 |
| 03/27/2014 | 10:18:33 | 0.032 |
| 03/27/2014 | 10:19:33 | 0.032 |
| 03/27/2014 | 10:20:33 | 0.038 |
| 03/27/2014 | 10:21:33 | 0.044 |
| 03/27/2014 | 10:22:33 | 0.033 |
| 03/27/2014 | 10:23:33 | 0.034 |
| 03/27/2014 | 10:24:33 | 0.034 |
| 03/27/2014 | 10:25:33 | 0.035 |
| 03/27/2014 | 10:26:33 | 0.035 |
| 03/27/2014 | 10:27:33 | 0.031 |
| 03/27/2014 | 10:28:33 | 0.032 |
| 03/27/2014 | 10:29:33 | 0.042 |
| 03/27/2014 | 10:30:33 | 0.032 |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 10:31:33 | 0.040 |
| 03/27/2014 | 10:32:33 | 0.037 |
| 03/27/2014 | 10:33:33 | 0.036 |
| 03/27/2014 | 10:34:33 | 0.016 |
| 03/27/2014 | 10:35:33 | 0.020 |
| 03/27/2014 | 10:36:33 | 0.025 |
| 03/27/2014 | 10:37:33 | 0.021 |
| 03/27/2014 | 10:38:33 | 0.020 |
| 03/27/2014 | 10:39:33 | 0.016 |
| 03/27/2014 | 10:40:33 | 0.016 |
| 03/27/2014 | 10:41:33 | 0.028 |
| 03/27/2014 | 10:42:33 | 0.029 |
| 03/27/2014 | 10:43:33 | 0.023 |
| 03/27/2014 | 10:44:33 | 0.025 |
| 03/27/2014 | 10:45:33 | 0.026 |
| 03/27/2014 | 10:46:33 | 0.025 |
| 03/27/2014 | 10:47:33 | 0.026 |
| 03/27/2014 | 10:48:33 | 0.027 |
| 03/27/2014 | 10:49:33 | 0.028 |
| 03/27/2014 | 10:50:33 | 0.029 |
| 03/27/2014 | 10:51:33 | 0.025 |
| 03/27/2014 | 10:52:33 | 0.024 |
| 03/27/2014 | 10:53:33 | 0.017 |
| 03/27/2014 | 10:54:33 | 0.013 |
| 03/27/2014 | 10:55:33 | 0.023 |
| 03/27/2014 | 10:56:33 | 0.020 |
| 03/27/2014 | 10:57:33 | 0.017 |
| 03/27/2014 | 10:58:33 | 0.018 |
| 03/27/2014 | 10:59:33 | 0.020 |
| 03/27/2014 | 11:00:33 | 0.028 |
| 03/27/2014 | 11:01:33 | 0.051 |
| 03/27/2014 | 11:02:33 | 0.029 |
| 03/27/2014 | 11:03:33 | 0.027 |
| 03/27/2014 | 11:04:33 | 0.026 |
| 03/27/2014 | 11:05:33 | 0.026 |
| 03/27/2014 | 11:06:33 | 0.026 |
| 03/27/2014 | 11:07:33 | 0.026 |
| 03/27/2014 | 11:08:33 | 0.027 |
| 03/27/2014 | 11:09:33 | 0.027 |
| 03/27/2014 | 11:10:33 | 0.027 |
| 03/27/2014 | 11:11:33 | 0.026 |
| 03/27/2014 | 11:12:33 | 0.027 |
| 03/27/2014 | 11:13:33 | 0.029 |
| 03/27/2014 | 11:14:33 | 0.030 |
| 03/27/2014 | 11:15:33 | 0.027 |
| 03/27/2014 | 11:16:33 | 0.033 |
| 03/27/2014 | 11:17:33 | 0.031 |
| 03/27/2014 | 11:18:33 | 0.028 |
| 03/27/2014 | 11:19:33 | 0.026 |
| 03/27/2014 | 11:20:33 | 0.026 |
| 03/27/2014 | 11:21:33 | 0.025 |
| 03/27/2014 | 11:22:33 | 0.026 |
| 03/27/2014 | 11:23:33 | 0.026 |
| 03/27/2014 | 11:24:33 | 0.030 |
| 03/27/2014 | 11:25:33 | 0.028 |
| 03/27/2014 | 11:26:33 | 0.027 |
| 03/27/2014 | 11:27:33 | 0.026 |
| 03/27/2014 | 11:28:33 | 0.026 |
| 03/27/2014 | 11:29:33 | 0.027 |
| 03/27/2014 | 11:30:33 | 0.027 |
| 03/27/2014 | 11:31:33 | 0.028 |
| 03/27/2014 | 11:32:33 | 0.029 |
| 03/27/2014 | 11:33:33 | 0.027 |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 11:34:33 | 0.025 |
| 03/27/2014 | 11:35:33 | 0.024 |
| 03/27/2014 | 11:36:33 | 0.025 |
| 03/27/2014 | 11:37:33 | 0.025 |
| 03/27/2014 | 11:38:33 | 0.025 |
| 03/27/2014 | 11:39:33 | 0.039 |
| 03/27/2014 | 11:40:33 | 0.026 |
| 03/27/2014 | 11:41:33 | 0.026 |
| 03/27/2014 | 11:42:33 | 0.026 |
| 03/27/2014 | 11:43:33 | 0.028 |
| 03/27/2014 | 11:44:33 | 0.031 |
| 03/27/2014 | 11:45:33 | 0.027 |
| 03/27/2014 | 11:46:33 | 0.026 |
| 03/27/2014 | 11:47:33 | 0.029 |
| 03/27/2014 | 11:48:33 | 0.025 |
| 03/27/2014 | 11:49:33 | 0.024 |
| 03/27/2014 | 11:50:33 | 0.028 |
| 03/27/2014 | 11:51:33 | 0.026 |
| 03/27/2014 | 11:52:33 | 0.024 |
| 03/27/2014 | 11:53:33 | 0.024 |
| 03/27/2014 | 11:54:33 | 0.024 |
| 03/27/2014 | 11:55:33 | 0.026 |
| 03/27/2014 | 11:56:33 | 0.026 |
| 03/27/2014 | 11:57:33 | 0.027 |
| 03/27/2014 | 11:58:33 | 0.024 |
| 03/27/2014 | 11:59:33 | 0.023 |
| 03/27/2014 | 12:00:33 | 0.024 |
| 03/27/2014 | 12:01:33 | 0.025 |
| 03/27/2014 | 12:02:33 | 0.023 |
| 03/27/2014 | 12:03:33 | 0.024 |
| 03/27/2014 | 12:04:33 | 0.022 |
| 03/27/2014 | 12:05:33 | 0.022 |
| 03/27/2014 | 12:06:33 | 0.023 |
| 03/27/2014 | 12:07:33 | 0.025 |
| 03/27/2014 | 12:08:33 | 0.023 |
| 03/27/2014 | 12:09:33 | 0.022 |
| 03/27/2014 | 12:10:33 | 0.023 |
| 03/27/2014 | 12:11:33 | 0.023 |
| 03/27/2014 | 12:12:33 | 0.025 |
| 03/27/2014 | 12:13:33 | 0.025 |
| 03/27/2014 | 12:14:33 | 0.031 |
| 03/27/2014 | 12:15:33 | 0.028 |
| 03/27/2014 | 12:16:33 | 0.028 |
| 03/27/2014 | 12:17:33 | 0.024 |
| 03/27/2014 | 12:18:33 | 0.026 |
| 03/27/2014 | 12:19:33 | 0.024 |
| 03/27/2014 | 12:20:33 | 0.025 |
| 03/27/2014 | 12:21:33 | 0.029 |
| 03/27/2014 | 12:22:33 | 0.027 |
| 03/27/2014 | 12:23:33 | 0.026 |
| 03/27/2014 | 12:24:33 | 0.036 |
| 03/27/2014 | 12:25:33 | 0.027 |
| 03/27/2014 | 12:26:33 | 0.025 |
| 03/27/2014 | 12:27:33 | 0.025 |
| 03/27/2014 | 12:28:33 | 0.025 |
| 03/27/2014 | 12:29:33 | 0.024 |
| 03/27/2014 | 12:30:33 | 0.025 |
| 03/27/2014 | 12:31:33 | 0.030 |
| 03/27/2014 | 12:32:33 | 0.079 |
| 03/27/2014 | 12:33:33 | 0.027 |
| 03/27/2014 | 12:34:33 | 0.027 |
| 03/27/2014 | 12:35:33 | 0.027 |
| 03/27/2014 | 12:36:33 | 0.026 |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |        |
|------------|----------|--------|
| 03/27/2014 | 12:37:33 | 0.026  |
| 03/27/2014 | 12:38:33 | 0.028  |
| 03/27/2014 | 12:39:33 | 0.027  |
| 03/27/2014 | 12:40:33 | 0.027  |
| 03/27/2014 | 12:41:33 | 0.026  |
| 03/27/2014 | 12:42:33 | 0.026  |
| 03/27/2014 | 12:43:33 | 0.026  |
| 03/27/2014 | 12:44:33 | 0.027  |
| 03/27/2014 | 12:45:33 | 0.028  |
| 03/27/2014 | 12:46:33 | 0.027  |
| 03/27/2014 | 12:47:33 | 0.026  |
| 03/27/2014 | 12:48:33 | 0.026  |
| 03/27/2014 | 12:49:33 | 0.026  |
| 03/27/2014 | 12:50:33 | 0.029  |
| 03/27/2014 | 12:51:33 | 0.027  |
| 03/27/2014 | 12:52:33 | 0.028  |
| 03/27/2014 | 12:53:33 | 0.027  |
| 03/27/2014 | 12:54:33 | 0.027  |
| 03/27/2014 | 12:55:33 | 0.026  |
| 03/27/2014 | 12:56:33 | 0.025  |
| 03/27/2014 | 12:57:33 | 0.027  |
| 03/27/2014 | 12:58:33 | -0.002 |
| 03/27/2014 | 12:59:33 | 0.027  |
| 03/27/2014 | 13:00:33 | 0.028  |
| 03/27/2014 | 13:01:33 | 0.027  |
| 03/27/2014 | 13:02:33 | 0.026  |
| 03/27/2014 | 13:03:33 | 0.027  |
| 03/27/2014 | 13:04:33 | 0.029  |
| 03/27/2014 | 13:05:33 | 0.035  |
| 03/27/2014 | 13:06:33 | 0.040  |
| 03/27/2014 | 13:07:33 | 0.029  |
| 03/27/2014 | 13:08:33 | 0.028  |
| 03/27/2014 | 13:09:33 | 0.026  |
| 03/27/2014 | 13:10:33 | 0.031  |
| 03/27/2014 | 13:11:33 | 0.029  |
| 03/27/2014 | 13:12:33 | 0.030  |
| 03/27/2014 | 13:13:33 | 0.030  |
| 03/27/2014 | 13:14:33 | 0.028  |
| 03/27/2014 | 13:15:33 | 0.031  |
| 03/27/2014 | 13:16:33 | 0.030  |
| 03/27/2014 | 13:17:33 | 0.029  |
| 03/27/2014 | 13:18:33 | 0.029  |
| 03/27/2014 | 13:19:33 | 0.029  |
| 03/27/2014 | 13:20:33 | 0.029  |
| 03/27/2014 | 13:21:33 | 0.030  |
| 03/27/2014 | 13:22:33 | 0.031  |
| 03/27/2014 | 13:23:33 | 0.031  |
| 03/27/2014 | 13:24:33 | 0.028  |
| 03/27/2014 | 13:25:33 | 0.031  |
| 03/27/2014 | 13:26:33 | 0.030  |
| 03/27/2014 | 13:27:33 | 0.039  |
| 03/27/2014 | 13:28:33 | 0.045  |
| 03/27/2014 | 13:29:33 | 0.036  |
| 03/27/2014 | 13:30:33 | 0.031  |
| 03/27/2014 | 13:31:33 | 0.035  |
| 03/27/2014 | 13:32:33 | 0.029  |
| 03/27/2014 | 13:33:33 | 0.028  |
| 03/27/2014 | 13:34:33 | 0.030  |
| 03/27/2014 | 13:35:33 | 0.037  |
| 03/27/2014 | 13:36:33 | 0.041  |
| 03/27/2014 | 13:37:33 | 0.030  |
| 03/27/2014 | 13:38:33 | 0.030  |
| 03/27/2014 | 13:39:33 | 0.030  |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 13:40:33 | 0.029 |
| 03/27/2014 | 13:41:33 | 0.029 |
| 03/27/2014 | 13:42:33 | 0.031 |
| 03/27/2014 | 13:43:33 | 0.033 |
| 03/27/2014 | 13:44:33 | 0.028 |
| 03/27/2014 | 13:45:33 | 0.031 |
| 03/27/2014 | 13:46:33 | 0.029 |
| 03/27/2014 | 13:47:33 | 0.028 |
| 03/27/2014 | 13:48:33 | 0.027 |
| 03/27/2014 | 13:49:33 | 0.027 |
| 03/27/2014 | 13:50:33 | 0.028 |
| 03/27/2014 | 13:51:33 | 0.031 |
| 03/27/2014 | 13:52:33 | 0.052 |
| 03/27/2014 | 13:53:33 | 0.030 |
| 03/27/2014 | 13:54:33 | 0.034 |
| 03/27/2014 | 13:55:33 | 0.032 |
| 03/27/2014 | 13:56:33 | 0.030 |
| 03/27/2014 | 13:57:33 | 0.029 |
| 03/27/2014 | 13:58:33 | 0.034 |
| 03/27/2014 | 13:59:33 | 0.030 |
| 03/27/2014 | 14:00:33 | 0.029 |
| 03/27/2014 | 14:01:33 | 0.041 |
| 03/27/2014 | 14:02:33 | 0.031 |
| 03/27/2014 | 14:03:33 | 0.028 |
| 03/27/2014 | 14:04:33 | 0.029 |
| 03/27/2014 | 14:05:33 | 0.028 |
| 03/27/2014 | 14:06:33 | 0.028 |
| 03/27/2014 | 14:07:33 | 0.028 |
| 03/27/2014 | 14:08:33 | 0.030 |
| 03/27/2014 | 14:09:33 | 0.029 |
| 03/27/2014 | 14:10:33 | 0.028 |
| 03/27/2014 | 14:11:33 | 0.033 |
| 03/27/2014 | 14:12:33 | 0.028 |
| 03/27/2014 | 14:13:33 | 0.029 |
| 03/27/2014 | 14:14:33 | 0.028 |
| 03/27/2014 | 14:15:33 | 0.027 |
| 03/27/2014 | 14:16:33 | 0.028 |
| 03/27/2014 | 14:17:33 | 0.027 |
| 03/27/2014 | 14:18:33 | 0.026 |
| 03/27/2014 | 14:19:33 | 0.028 |
| 03/27/2014 | 14:20:33 | 0.026 |
| 03/27/2014 | 14:21:33 | 0.034 |
| 03/27/2014 | 14:22:33 | 0.031 |
| 03/27/2014 | 14:23:33 | 0.042 |
| 03/27/2014 | 14:24:33 | 0.032 |
| 03/27/2014 | 14:25:33 | 0.028 |
| 03/27/2014 | 14:26:33 | 0.025 |
| 03/27/2014 | 14:27:33 | 0.026 |
| 03/27/2014 | 14:28:33 | 0.024 |
| 03/27/2014 | 14:29:33 | 0.025 |
| 03/27/2014 | 14:30:33 | 0.025 |
| 03/27/2014 | 14:31:33 | 0.024 |
| 03/27/2014 | 14:32:33 | 0.023 |
| 03/27/2014 | 14:33:33 | 0.022 |
| 03/27/2014 | 14:34:33 | 0.025 |
| 03/27/2014 | 14:35:33 | 0.023 |
| 03/27/2014 | 14:36:33 | 0.023 |
| 03/27/2014 | 14:37:33 | 0.022 |
| 03/27/2014 | 14:38:33 | 0.024 |
| 03/27/2014 | 14:39:33 | 0.023 |
| 03/27/2014 | 14:40:33 | 0.021 |
| 03/27/2014 | 14:41:33 | 0.022 |
| 03/27/2014 | 14:42:33 | 0.023 |

## DT 17784 032714 UW @BH12 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/27/2014 | 14:43:33 | 0.023 |
| 03/27/2014 | 14:44:33 | 0.021 |
| 03/27/2014 | 14:45:33 | 0.021 |
| 03/27/2014 | 14:46:33 | 0.021 |
| 03/27/2014 | 14:47:33 | 0.025 |
| 03/27/2014 | 14:48:33 | 0.022 |
| 03/27/2014 | 14:49:33 | 0.025 |
| 03/27/2014 | 14:50:33 | 0.022 |
| 03/27/2014 | 14:51:33 | 0.027 |
| 03/27/2014 | 14:52:33 | 0.024 |
| 03/27/2014 | 14:53:33 | 0.021 |
| 03/27/2014 | 14:54:33 | 0.021 |
| 03/27/2014 | 14:55:33 | 0.022 |
| 03/27/2014 | 14:56:33 | 0.021 |
| 03/27/2014 | 14:57:33 | 0.023 |
| 03/27/2014 | 14:58:33 | 0.022 |
| 03/27/2014 | 14:59:33 | 0.021 |
| 03/27/2014 | 15:00:33 | 0.020 |
| 03/27/2014 | 15:01:33 | 0.020 |
| 03/27/2014 | 15:02:33 | 0.019 |
| 03/27/2014 | 15:03:33 | 0.020 |
| 03/27/2014 | 15:04:33 | 0.020 |
| 03/27/2014 | 15:05:33 | 0.023 |
| 03/27/2014 | 15:06:33 | 0.023 |
| 03/27/2014 | 15:07:33 | 0.024 |
| 03/27/2014 | 15:08:33 | 0.026 |
| 03/27/2014 | 15:09:33 | 0.023 |
| 03/27/2014 | 15:10:33 | 0.024 |
| 03/27/2014 | 15:11:33 | 0.025 |
| 03/27/2014 | 15:12:33 | 0.035 |
| 03/27/2014 | 15:13:33 | 0.026 |
| 03/27/2014 | 15:14:33 | 0.024 |
| 03/27/2014 | 15:15:33 | 0.024 |
| 03/27/2014 | 15:16:33 | 0.023 |
| 03/27/2014 | 15:17:33 | 0.024 |
| 03/27/2014 | 15:18:33 | 0.022 |
| 03/27/2014 | 15:19:33 | 0.021 |
| 03/27/2014 | 15:20:33 | 0.021 |
| 03/27/2014 | 15:21:33 | 0.021 |
| 03/27/2014 | 15:22:33 | 0.021 |
| 03/27/2014 | 15:23:33 | 0.022 |
| 03/27/2014 | 15:24:33 | 0.021 |
| 03/27/2014 | 15:25:33 | 0.021 |
| 03/27/2014 | 15:26:33 | 0.023 |
| 03/27/2014 | 15:27:33 | 0.023 |
| 03/27/2014 | 15:28:33 | 0.022 |
| 03/27/2014 | 15:29:33 | 0.024 |
| 03/27/2014 | 15:30:33 | 0.033 |
| 03/27/2014 | 15:31:33 | 0.022 |
| 03/27/2014 | 15:32:33 | 0.026 |

DT R11553 032714 @BH12 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 013  
Test Abbreviation: MANUAL\_013  
Start Date: 03/27/2014  
Start Time: 08:57:41  
Duration (dd:hh:mm:ss): 0:06:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 26  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.033  
Minimum: 0.025  
Time of Minimum: 15:27:41  
Date of Minimum: 03/27/2014  
Maximum: 0.050  
Time of Maximum: 09:12:41  
Date of Maximum: 03/27/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/27/2014 | 09:12:41 | 0.050             |
| 03/27/2014 | 09:27:41 | 0.035             |
| 03/27/2014 | 09:42:41 | 0.037             |
| 03/27/2014 | 09:57:41 | 0.037             |
| 03/27/2014 | 10:12:41 | 0.041             |
| 03/27/2014 | 10:27:41 | 0.036             |
| 03/27/2014 | 10:42:41 | 0.032             |
| 03/27/2014 | 10:57:41 | 0.035             |
| 03/27/2014 | 11:12:41 | 0.031             |
| 03/27/2014 | 11:27:41 | 0.030             |
| 03/27/2014 | 11:42:41 | 0.031             |
| 03/27/2014 | 11:57:41 | 0.030             |
| 03/27/2014 | 12:12:41 | 0.028             |
| 03/27/2014 | 12:27:41 | 0.032             |
| 03/27/2014 | 12:42:41 | 0.031             |
| 03/27/2014 | 12:57:41 | 0.031             |
| 03/27/2014 | 13:12:41 | 0.033             |
| 03/27/2014 | 13:27:41 | 0.036             |
| 03/27/2014 | 13:42:41 | 0.033             |
| 03/27/2014 | 13:57:41 | 0.033             |
| 03/27/2014 | 14:12:41 | 0.033             |
| 03/27/2014 | 14:27:41 | 0.030             |
| 03/27/2014 | 14:42:41 | 0.027             |
| 03/27/2014 | 14:57:41 | 0.027             |
| 03/27/2014 | 15:12:41 | 0.026             |
| 03/27/2014 | 15:27:41 | 0.025             |

DT 17784 032814 UW @BH13 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 008  
Test Abbreviation: MANUAL\_008  
Start Date: 03/28/2014  
Start Time: 08:40:37  
Duration (dd:hh:mm:ss): 0:05:10:00  
Log Interval (mm:ss): 01:00  
Number of points: 310  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.034  
Minimum: 0.021  
Time of Minimum: 10:26:37  
Date of Minimum: 03/28/2014  
Maximum: 0.069  
Time of Maximum: 13:22:37  
Date of Maximum: 03/28/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/28/2014 | 08:41:37 | 0.030             |
| 03/28/2014 | 08:42:37 | 0.027             |
| 03/28/2014 | 08:43:37 | 0.028             |
| 03/28/2014 | 08:44:37 | 0.027             |
| 03/28/2014 | 08:45:37 | 0.027             |
| 03/28/2014 | 08:46:37 | 0.026             |
| 03/28/2014 | 08:47:37 | 0.026             |
| 03/28/2014 | 08:48:37 | 0.026             |
| 03/28/2014 | 08:49:37 | 0.027             |
| 03/28/2014 | 08:50:37 | 0.028             |
| 03/28/2014 | 08:51:37 | 0.029             |
| 03/28/2014 | 08:52:37 | 0.028             |
| 03/28/2014 | 08:53:37 | 0.027             |
| 03/28/2014 | 08:54:37 | 0.027             |
| 03/28/2014 | 08:55:37 | 0.027             |
| 03/28/2014 | 08:56:37 | 0.027             |
| 03/28/2014 | 08:57:37 | 0.026             |
| 03/28/2014 | 08:58:37 | 0.026             |
| 03/28/2014 | 08:59:37 | 0.033             |
| 03/28/2014 | 09:00:37 | 0.032             |
| 03/28/2014 | 09:01:37 | 0.026             |
| 03/28/2014 | 09:02:37 | 0.027             |
| 03/28/2014 | 09:03:37 | 0.029             |
| 03/28/2014 | 09:04:37 | 0.028             |
| 03/28/2014 | 09:05:37 | 0.033             |
| 03/28/2014 | 09:06:37 | 0.039             |
| 03/28/2014 | 09:07:37 | 0.027             |
| 03/28/2014 | 09:08:37 | 0.027             |
| 03/28/2014 | 09:09:37 | 0.026             |
| 03/28/2014 | 09:10:37 | 0.027             |
| 03/28/2014 | 09:11:37 | 0.027             |
| 03/28/2014 | 09:12:37 | 0.027             |
| 03/28/2014 | 09:13:37 | 0.026             |
| 03/28/2014 | 09:14:37 | 0.026             |

DT 17784 032814 UW @BH13 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/28/2014 | 09:15:37 | 0.028 |
| 03/28/2014 | 09:16:37 | 0.027 |
| 03/28/2014 | 09:17:37 | 0.027 |
| 03/28/2014 | 09:18:37 | 0.030 |
| 03/28/2014 | 09:19:37 | 0.027 |
| 03/28/2014 | 09:20:37 | 0.027 |
| 03/28/2014 | 09:21:37 | 0.030 |
| 03/28/2014 | 09:22:37 | 0.030 |
| 03/28/2014 | 09:23:37 | 0.028 |
| 03/28/2014 | 09:24:37 | 0.027 |
| 03/28/2014 | 09:25:37 | 0.026 |
| 03/28/2014 | 09:26:37 | 0.033 |
| 03/28/2014 | 09:27:37 | 0.029 |
| 03/28/2014 | 09:28:37 | 0.029 |
| 03/28/2014 | 09:29:37 | 0.027 |
| 03/28/2014 | 09:30:37 | 0.030 |
| 03/28/2014 | 09:31:37 | 0.026 |
| 03/28/2014 | 09:32:37 | 0.027 |
| 03/28/2014 | 09:33:37 | 0.028 |
| 03/28/2014 | 09:34:37 | 0.026 |
| 03/28/2014 | 09:35:37 | 0.028 |
| 03/28/2014 | 09:36:37 | 0.027 |
| 03/28/2014 | 09:37:37 | 0.027 |
| 03/28/2014 | 09:38:37 | 0.026 |
| 03/28/2014 | 09:39:37 | 0.026 |
| 03/28/2014 | 09:40:37 | 0.027 |
| 03/28/2014 | 09:41:37 | 0.027 |
| 03/28/2014 | 09:42:37 | 0.029 |
| 03/28/2014 | 09:43:37 | 0.027 |
| 03/28/2014 | 09:44:37 | 0.028 |
| 03/28/2014 | 09:45:37 | 0.027 |
| 03/28/2014 | 09:46:37 | 0.026 |
| 03/28/2014 | 09:47:37 | 0.026 |
| 03/28/2014 | 09:48:37 | 0.027 |
| 03/28/2014 | 09:49:37 | 0.027 |
| 03/28/2014 | 09:50:37 | 0.026 |
| 03/28/2014 | 09:51:37 | 0.029 |
| 03/28/2014 | 09:52:37 | 0.024 |
| 03/28/2014 | 09:53:37 | 0.023 |
| 03/28/2014 | 09:54:37 | 0.024 |
| 03/28/2014 | 09:55:37 | 0.025 |
| 03/28/2014 | 09:56:37 | 0.026 |
| 03/28/2014 | 09:57:37 | 0.030 |
| 03/28/2014 | 09:58:37 | 0.026 |
| 03/28/2014 | 09:59:37 | 0.028 |
| 03/28/2014 | 10:00:37 | 0.027 |
| 03/28/2014 | 10:01:37 | 0.027 |
| 03/28/2014 | 10:02:37 | 0.025 |
| 03/28/2014 | 10:03:37 | 0.025 |
| 03/28/2014 | 10:04:37 | 0.027 |
| 03/28/2014 | 10:05:37 | 0.027 |
| 03/28/2014 | 10:06:37 | 0.023 |
| 03/28/2014 | 10:07:37 | 0.024 |
| 03/28/2014 | 10:08:37 | 0.024 |
| 03/28/2014 | 10:09:37 | 0.023 |
| 03/28/2014 | 10:10:37 | 0.023 |
| 03/28/2014 | 10:11:37 | 0.023 |
| 03/28/2014 | 10:12:37 | 0.023 |
| 03/28/2014 | 10:13:37 | 0.026 |
| 03/28/2014 | 10:14:37 | 0.028 |
| 03/28/2014 | 10:15:37 | 0.024 |
| 03/28/2014 | 10:16:37 | 0.024 |
| 03/28/2014 | 10:17:37 | 0.023 |

## DT 17784 032814 UW @BH13 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/28/2014 | 10:18:37 | 0.023 |
| 03/28/2014 | 10:19:37 | 0.023 |
| 03/28/2014 | 10:20:37 | 0.023 |
| 03/28/2014 | 10:21:37 | 0.024 |
| 03/28/2014 | 10:22:37 | 0.023 |
| 03/28/2014 | 10:23:37 | 0.024 |
| 03/28/2014 | 10:24:37 | 0.023 |
| 03/28/2014 | 10:25:37 | 0.023 |
| 03/28/2014 | 10:26:37 | 0.021 |
| 03/28/2014 | 10:27:37 | 0.022 |
| 03/28/2014 | 10:28:37 | 0.024 |
| 03/28/2014 | 10:29:37 | 0.024 |
| 03/28/2014 | 10:30:37 | 0.022 |
| 03/28/2014 | 10:31:37 | 0.021 |
| 03/28/2014 | 10:32:37 | 0.022 |
| 03/28/2014 | 10:33:37 | 0.021 |
| 03/28/2014 | 10:34:37 | 0.021 |
| 03/28/2014 | 10:35:37 | 0.023 |
| 03/28/2014 | 10:36:37 | 0.022 |
| 03/28/2014 | 10:37:37 | 0.022 |
| 03/28/2014 | 10:38:37 | 0.024 |
| 03/28/2014 | 10:39:37 | 0.052 |
| 03/28/2014 | 10:40:37 | 0.034 |
| 03/28/2014 | 10:41:37 | 0.023 |
| 03/28/2014 | 10:42:37 | 0.023 |
| 03/28/2014 | 10:43:37 | 0.023 |
| 03/28/2014 | 10:44:37 | 0.043 |
| 03/28/2014 | 10:45:37 | 0.024 |
| 03/28/2014 | 10:46:37 | 0.028 |
| 03/28/2014 | 10:47:37 | 0.024 |
| 03/28/2014 | 10:48:37 | 0.039 |
| 03/28/2014 | 10:49:37 | 0.027 |
| 03/28/2014 | 10:50:37 | 0.027 |
| 03/28/2014 | 10:51:37 | 0.031 |
| 03/28/2014 | 10:52:37 | 0.031 |
| 03/28/2014 | 10:53:37 | 0.032 |
| 03/28/2014 | 10:54:37 | 0.026 |
| 03/28/2014 | 10:55:37 | 0.025 |
| 03/28/2014 | 10:56:37 | 0.024 |
| 03/28/2014 | 10:57:37 | 0.029 |
| 03/28/2014 | 10:58:37 | 0.024 |
| 03/28/2014 | 10:59:37 | 0.024 |
| 03/28/2014 | 11:00:37 | 0.028 |
| 03/28/2014 | 11:01:37 | 0.025 |
| 03/28/2014 | 11:02:37 | 0.026 |
| 03/28/2014 | 11:03:37 | 0.026 |
| 03/28/2014 | 11:04:37 | 0.029 |
| 03/28/2014 | 11:05:37 | 0.026 |
| 03/28/2014 | 11:06:37 | 0.025 |
| 03/28/2014 | 11:07:37 | 0.027 |
| 03/28/2014 | 11:08:37 | 0.026 |
| 03/28/2014 | 11:09:37 | 0.026 |
| 03/28/2014 | 11:10:37 | 0.025 |
| 03/28/2014 | 11:11:37 | 0.027 |
| 03/28/2014 | 11:12:37 | 0.028 |
| 03/28/2014 | 11:13:37 | 0.028 |
| 03/28/2014 | 11:14:37 | 0.027 |
| 03/28/2014 | 11:15:37 | 0.028 |
| 03/28/2014 | 11:16:37 | 0.029 |
| 03/28/2014 | 11:17:37 | 0.030 |
| 03/28/2014 | 11:18:37 | 0.028 |
| 03/28/2014 | 11:19:37 | 0.029 |
| 03/28/2014 | 11:20:37 | 0.030 |

## DT 17784 032814 UW @BH13 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/28/2014 | 11:21:37 | 0.031 |
| 03/28/2014 | 11:22:37 | 0.030 |
| 03/28/2014 | 11:23:37 | 0.034 |
| 03/28/2014 | 11:24:37 | 0.032 |
| 03/28/2014 | 11:25:37 | 0.032 |
| 03/28/2014 | 11:26:37 | 0.032 |
| 03/28/2014 | 11:27:37 | 0.031 |
| 03/28/2014 | 11:28:37 | 0.032 |
| 03/28/2014 | 11:29:37 | 0.032 |
| 03/28/2014 | 11:30:37 | 0.032 |
| 03/28/2014 | 11:31:37 | 0.031 |
| 03/28/2014 | 11:32:37 | 0.032 |
| 03/28/2014 | 11:33:37 | 0.032 |
| 03/28/2014 | 11:34:37 | 0.032 |
| 03/28/2014 | 11:35:37 | 0.033 |
| 03/28/2014 | 11:36:37 | 0.031 |
| 03/28/2014 | 11:37:37 | 0.033 |
| 03/28/2014 | 11:38:37 | 0.034 |
| 03/28/2014 | 11:39:37 | 0.035 |
| 03/28/2014 | 11:40:37 | 0.033 |
| 03/28/2014 | 11:41:37 | 0.034 |
| 03/28/2014 | 11:42:37 | 0.033 |
| 03/28/2014 | 11:43:37 | 0.034 |
| 03/28/2014 | 11:44:37 | 0.036 |
| 03/28/2014 | 11:45:37 | 0.033 |
| 03/28/2014 | 11:46:37 | 0.033 |
| 03/28/2014 | 11:47:37 | 0.034 |
| 03/28/2014 | 11:48:37 | 0.033 |
| 03/28/2014 | 11:49:37 | 0.032 |
| 03/28/2014 | 11:50:37 | 0.033 |
| 03/28/2014 | 11:51:37 | 0.033 |
| 03/28/2014 | 11:52:37 | 0.035 |
| 03/28/2014 | 11:53:37 | 0.034 |
| 03/28/2014 | 11:54:37 | 0.034 |
| 03/28/2014 | 11:55:37 | 0.034 |
| 03/28/2014 | 11:56:37 | 0.035 |
| 03/28/2014 | 11:57:37 | 0.036 |
| 03/28/2014 | 11:58:37 | 0.035 |
| 03/28/2014 | 11:59:37 | 0.038 |
| 03/28/2014 | 12:00:37 | 0.036 |
| 03/28/2014 | 12:01:37 | 0.034 |
| 03/28/2014 | 12:02:37 | 0.032 |
| 03/28/2014 | 12:03:37 | 0.034 |
| 03/28/2014 | 12:04:37 | 0.034 |
| 03/28/2014 | 12:05:37 | 0.034 |
| 03/28/2014 | 12:06:37 | 0.034 |
| 03/28/2014 | 12:07:37 | 0.033 |
| 03/28/2014 | 12:08:37 | 0.035 |
| 03/28/2014 | 12:09:37 | 0.035 |
| 03/28/2014 | 12:10:37 | 0.035 |
| 03/28/2014 | 12:11:37 | 0.034 |
| 03/28/2014 | 12:12:37 | 0.035 |
| 03/28/2014 | 12:13:37 | 0.034 |
| 03/28/2014 | 12:14:37 | 0.036 |
| 03/28/2014 | 12:15:37 | 0.036 |
| 03/28/2014 | 12:16:37 | 0.034 |
| 03/28/2014 | 12:17:37 | 0.034 |
| 03/28/2014 | 12:18:37 | 0.034 |
| 03/28/2014 | 12:19:37 | 0.033 |
| 03/28/2014 | 12:20:37 | 0.034 |
| 03/28/2014 | 12:21:37 | 0.035 |
| 03/28/2014 | 12:22:37 | 0.035 |
| 03/28/2014 | 12:23:37 | 0.035 |

## DT 17784 032814 UW @BH13 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/28/2014 | 12:24:37 | 0.036 |
| 03/28/2014 | 12:25:37 | 0.037 |
| 03/28/2014 | 12:26:37 | 0.037 |
| 03/28/2014 | 12:27:37 | 0.037 |
| 03/28/2014 | 12:28:37 | 0.038 |
| 03/28/2014 | 12:29:37 | 0.037 |
| 03/28/2014 | 12:30:37 | 0.036 |
| 03/28/2014 | 12:31:37 | 0.038 |
| 03/28/2014 | 12:32:37 | 0.037 |
| 03/28/2014 | 12:33:37 | 0.041 |
| 03/28/2014 | 12:34:37 | 0.038 |
| 03/28/2014 | 12:35:37 | 0.037 |
| 03/28/2014 | 12:36:37 | 0.038 |
| 03/28/2014 | 12:37:37 | 0.038 |
| 03/28/2014 | 12:38:37 | 0.038 |
| 03/28/2014 | 12:39:37 | 0.037 |
| 03/28/2014 | 12:40:37 | 0.041 |
| 03/28/2014 | 12:41:37 | 0.041 |
| 03/28/2014 | 12:42:37 | 0.040 |
| 03/28/2014 | 12:43:37 | 0.040 |
| 03/28/2014 | 12:44:37 | 0.048 |
| 03/28/2014 | 12:45:37 | 0.043 |
| 03/28/2014 | 12:46:37 | 0.043 |
| 03/28/2014 | 12:47:37 | 0.045 |
| 03/28/2014 | 12:48:37 | 0.047 |
| 03/28/2014 | 12:49:37 | 0.043 |
| 03/28/2014 | 12:50:37 | 0.041 |
| 03/28/2014 | 12:51:37 | 0.050 |
| 03/28/2014 | 12:52:37 | 0.043 |
| 03/28/2014 | 12:53:37 | 0.043 |
| 03/28/2014 | 12:54:37 | 0.040 |
| 03/28/2014 | 12:55:37 | 0.040 |
| 03/28/2014 | 12:56:37 | 0.039 |
| 03/28/2014 | 12:57:37 | 0.040 |
| 03/28/2014 | 12:58:37 | 0.042 |
| 03/28/2014 | 12:59:37 | 0.038 |
| 03/28/2014 | 13:00:37 | 0.043 |
| 03/28/2014 | 13:01:37 | 0.042 |
| 03/28/2014 | 13:02:37 | 0.039 |
| 03/28/2014 | 13:03:37 | 0.038 |
| 03/28/2014 | 13:04:37 | 0.038 |
| 03/28/2014 | 13:05:37 | 0.045 |
| 03/28/2014 | 13:06:37 | 0.042 |
| 03/28/2014 | 13:07:37 | 0.040 |
| 03/28/2014 | 13:08:37 | 0.040 |
| 03/28/2014 | 13:09:37 | 0.039 |
| 03/28/2014 | 13:10:37 | 0.042 |
| 03/28/2014 | 13:11:37 | 0.038 |
| 03/28/2014 | 13:12:37 | 0.038 |
| 03/28/2014 | 13:13:37 | 0.052 |
| 03/28/2014 | 13:14:37 | 0.055 |
| 03/28/2014 | 13:15:37 | 0.056 |
| 03/28/2014 | 13:16:37 | 0.063 |
| 03/28/2014 | 13:17:37 | 0.054 |
| 03/28/2014 | 13:18:37 | 0.052 |
| 03/28/2014 | 13:19:37 | 0.050 |
| 03/28/2014 | 13:20:37 | 0.050 |
| 03/28/2014 | 13:21:37 | 0.057 |
| 03/28/2014 | 13:22:37 | 0.069 |
| 03/28/2014 | 13:23:37 | 0.060 |
| 03/28/2014 | 13:24:37 | 0.046 |
| 03/28/2014 | 13:25:37 | 0.061 |
| 03/28/2014 | 13:26:37 | 0.051 |

| DT 17784 032814 UW @BH13 DRILLING |          |       |
|-----------------------------------|----------|-------|
| 03/28/2014                        | 13:27:37 | 0.055 |
| 03/28/2014                        | 13:28:37 | 0.059 |
| 03/28/2014                        | 13:29:37 | 0.068 |
| 03/28/2014                        | 13:30:37 | 0.052 |
| 03/28/2014                        | 13:31:37 | 0.054 |
| 03/28/2014                        | 13:32:37 | 0.056 |
| 03/28/2014                        | 13:33:37 | 0.059 |
| 03/28/2014                        | 13:34:37 | 0.053 |
| 03/28/2014                        | 13:35:37 | 0.065 |
| 03/28/2014                        | 13:36:37 | 0.063 |
| 03/28/2014                        | 13:37:37 | 0.055 |
| 03/28/2014                        | 13:38:37 | 0.059 |
| 03/28/2014                        | 13:39:37 | 0.049 |
| 03/28/2014                        | 13:40:37 | 0.048 |
| 03/28/2014                        | 13:41:37 | 0.047 |
| 03/28/2014                        | 13:42:37 | 0.050 |
| 03/28/2014                        | 13:43:37 | 0.053 |
| 03/28/2014                        | 13:44:37 | 0.056 |
| 03/28/2014                        | 13:45:37 | 0.052 |
| 03/28/2014                        | 13:46:37 | 0.048 |
| 03/28/2014                        | 13:47:37 | 0.054 |
| 03/28/2014                        | 13:48:37 | 0.051 |
| 03/28/2014                        | 13:49:37 | 0.052 |
| 03/28/2014                        | 13:50:37 | 0.050 |

DT R11553 032814 @BH13 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 014  
Test Abbreviation: MANUAL\_014  
Start Date: 03/28/2014  
Start Time: 08:40:26  
Duration (dd:hh:mm:ss): 0:05:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 20  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.030  
Minimum: 0.019  
Time of Minimum: 10:40:26  
Date of Minimum: 03/28/2014  
Maximum: 0.054  
Time of Maximum: 08:55:26  
Date of Maximum: 03/28/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/28/2014 | 08:55:26 | 0.054             |
| 03/28/2014 | 09:10:26 | 0.022             |
| 03/28/2014 | 09:25:26 | 0.022             |
| 03/28/2014 | 09:40:26 | 0.022             |
| 03/28/2014 | 09:55:26 | 0.022             |
| 03/28/2014 | 10:10:26 | 0.021             |
| 03/28/2014 | 10:25:26 | 0.020             |
| 03/28/2014 | 10:40:26 | 0.019             |
| 03/28/2014 | 10:55:26 | 0.021             |
| 03/28/2014 | 11:10:26 | 0.023             |
| 03/28/2014 | 11:25:26 | 0.026             |
| 03/28/2014 | 11:40:26 | 0.029             |
| 03/28/2014 | 11:55:26 | 0.031             |
| 03/28/2014 | 12:10:26 | 0.033             |
| 03/28/2014 | 12:25:26 | 0.032             |
| 03/28/2014 | 12:40:26 | 0.038             |
| 03/28/2014 | 12:55:26 | 0.038             |
| 03/28/2014 | 13:10:26 | 0.038             |
| 03/28/2014 | 13:25:26 | 0.047             |
| 03/28/2014 | 13:40:26 | 0.045             |

DT R11497 033114 @BH 4 UW T1 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 007  
Test Abbreviation: MANUAL\_007  
Start Date: 03/31/2014  
Start Time: 09:04:25  
Duration (dd:hh:mm:ss): 0:00:15:00  
Number of points: 1  
Notes:

|                  |                   |         |
|------------------|-------------------|---------|
| Statistics       | Channel:          | AEROSOL |
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.052             |         |
| Minimum:         | 0.052             |         |
| Time of Minimum: | 09:19:25          |         |
| Date of Minimum: | 03/31/2014        |         |
| Maximum:         | 0.052             |         |
| Time of Maximum: | 09:19:25          |         |
| Date of Maximum: | 03/31/2014        |         |

|             |            |         |
|-------------|------------|---------|
| Calibration | Sensor:    | AEROSOL |
| Cal. date   | 06/20/2012 |         |

|            |          |                   |
|------------|----------|-------------------|
| Date       | Time     | AEROSOL           |
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/31/2014 | 09:19:25 | 0.052             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530102611  
Test ID: 008  
Test Abbreviation: MANUAL\_008  
Start Date: 03/31/2014  
Start Time: 12:56:22  
Duration (dd:hh:mm:ss): 0:02:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 11  
Notes:

|                  |                   |         |
|------------------|-------------------|---------|
| Statistics       | Channel:          | AEROSOL |
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.029             |         |
| Minimum:         | 0.021             |         |
| Time of Minimum: | 13:26:22          |         |
| Date of Minimum: | 03/31/2014        |         |
| Maximum:         | 0.039             |         |
| Time of Maximum: | 13:11:22          |         |
| Date of Maximum: | 03/31/2014        |         |

|             |            |         |
|-------------|------------|---------|
| Calibration | Sensor:    | AEROSOL |
| Cal. date   | 06/20/2012 |         |

|            |          |                   |
|------------|----------|-------------------|
| Date       | Time     | AEROSOL           |
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/31/2014 | 13:11:22 | 0.039             |
| 03/31/2014 | 13:26:22 | 0.021             |
| 03/31/2014 | 13:41:22 | 0.025             |
| 03/31/2014 | 13:56:22 | 0.022             |
| 03/31/2014 | 14:11:22 | 0.021             |
| 03/31/2014 | 14:26:22 | 0.036             |

## DT R11497 033114 @BH 4 UW T1 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/31/2014 | 14:41:22 | 0.033 |
| 03/31/2014 | 14:56:22 | 0.030 |
| 03/31/2014 | 15:11:22 | 0.028 |
| 03/31/2014 | 15:26:22 | 0.035 |
| 03/31/2014 | 15:41:22 | 0.025 |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530102611  
 Test ID: 009  
 Test Abbreviation: MANUAL\_009  
 Start Date: 04/01/2014  
 Start Time: 08:19:47  
 Duration (dd:hh:mm:ss): 0:01:45:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 7  
 Notes:

|                  |                   |         |
|------------------|-------------------|---------|
| Statistics       | Channel:          | AEROSOL |
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.020             |         |
| Minimum:         | 0.012             |         |
| Time of Minimum: | 10:04:47          |         |
| Date of Minimum: | 04/01/2014        |         |
| Maximum:         | 0.029             |         |
| Time of Maximum: | 08:49:47          |         |
| Date of Maximum: | 04/01/2014        |         |

Calibration Sensor: AEROSOL  
 Cal. date 06/20/2012

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/01/2014 | 08:34:47 |         | 0.026             |
| 04/01/2014 | 08:49:47 |         | 0.029             |
| 04/01/2014 | 09:04:47 |         | 0.020             |
| 04/01/2014 | 09:19:47 |         | 0.022             |
| 04/01/2014 | 09:34:47 |         | 0.015             |
| 04/01/2014 | 09:49:47 |         | 0.014             |
| 04/01/2014 | 10:04:47 |         | 0.012             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530102611  
 Test ID: 010  
 Test Abbreviation: MANUAL\_010  
 Start Date: 04/01/2014  
 Start Time: 11:53:18  
 Duration (dd:hh:mm:ss): 0:03:15:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 13  
 Notes:

|                  |                   |         |
|------------------|-------------------|---------|
| Statistics       | Channel:          | AEROSOL |
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.027             |         |
| Minimum:         | 0.019             |         |
| Time of Minimum: | 12:08:18          |         |
| Date of Minimum: | 04/01/2014        |         |
| Maximum:         | 0.043             |         |
| Time of Maximum: | 13:53:18          |         |
| Date of Maximum: | 04/01/2014        |         |

DT R11497 033114 @BH 4 UW T1 DRILLING  
 Calibration Sensor: AEROSOL  
 Cal. date 06/20/2012

| Date       | Time     | AEROSOL |        |
|------------|----------|---------|--------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m^3 |
| 04/01/2014 | 12:08:18 |         | 0.019  |
| 04/01/2014 | 12:23:18 |         | 0.024  |
| 04/01/2014 | 12:38:18 |         | 0.023  |
| 04/01/2014 | 12:53:18 |         | 0.024  |
| 04/01/2014 | 13:08:18 |         | 0.025  |
| 04/01/2014 | 13:23:18 |         | 0.027  |
| 04/01/2014 | 13:38:18 |         | 0.031  |
| 04/01/2014 | 13:53:18 |         | 0.043  |
| 04/01/2014 | 14:08:18 |         | 0.032  |
| 04/01/2014 | 14:23:18 |         | 0.026  |
| 04/01/2014 | 14:38:18 |         | 0.023  |
| 04/01/2014 | 14:53:18 |         | 0.025  |
| 04/01/2014 | 15:08:18 |         | 0.028  |

DT R11550 033114 @BH 4 DW T1 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 007  
Test Abbreviation: MANUAL\_007  
Start Date: 03/31/2014  
Start Time: 09:07:53  
Duration (dd:hh:mm:ss): 0:00:15:00  
Number of points: 1  
Notes:

|            |                  |                   |
|------------|------------------|-------------------|
| Statistics | Channel:         | AEROSOL           |
|            | Units:           | mg/m <sup>3</sup> |
|            | Average:         | 0.020             |
|            | Minimum:         | 0.020             |
|            | Time of Minimum: | 09:22:53          |
|            | Date of Minimum: | 03/31/2014        |
|            | Maximum:         | 0.020             |
|            | Time of Maximum: | 09:22:53          |
|            | Date of Maximum: | 03/31/2014        |

|             |           |            |
|-------------|-----------|------------|
| Calibration | Sensor:   | AEROSOL    |
|             | Cal. date | 03/07/2014 |

|            |          |                   |
|------------|----------|-------------------|
| Date       | Time     | AEROSOL           |
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/31/2014 | 09:22:53 | 0.020             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 008  
Test Abbreviation: MANUAL\_008  
Start Date: 03/31/2014  
Start Time: 12:59:15  
Duration (dd:hh:mm:ss): 0:02:45:00  
Log Interval (mm:ss): 15:00  
Number of points: 11  
Notes:

|            |                  |                   |
|------------|------------------|-------------------|
| Statistics | Channel:         | AEROSOL           |
|            | Units:           | mg/m <sup>3</sup> |
|            | Average:         | 0.011             |
|            | Minimum:         | 0.010             |
|            | Time of Minimum: | 13:44:15          |
|            | Date of Minimum: | 03/31/2014        |
|            | Maximum:         | 0.014             |
|            | Time of Maximum: | 13:14:15          |
|            | Date of Maximum: | 03/31/2014        |

|             |           |            |
|-------------|-----------|------------|
| Calibration | Sensor:   | AEROSOL    |
|             | Cal. date | 03/07/2014 |

|            |          |                   |
|------------|----------|-------------------|
| Date       | Time     | AEROSOL           |
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 03/31/2014 | 13:14:15 | 0.014             |
| 03/31/2014 | 13:29:15 | 0.011             |
| 03/31/2014 | 13:44:15 | 0.010             |
| 03/31/2014 | 13:59:15 | 0.010             |
| 03/31/2014 | 14:14:15 | 0.010             |
| 03/31/2014 | 14:29:15 | 0.011             |

## DT R11550 033114 @BH 4 DW T1 DRILLING

|            |          |       |
|------------|----------|-------|
| 03/31/2014 | 14:44:15 | 0.010 |
| 03/31/2014 | 14:59:15 | 0.011 |
| 03/31/2014 | 15:14:15 | 0.012 |
| 03/31/2014 | 15:29:15 | 0.013 |
| 03/31/2014 | 15:44:15 | 0.012 |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104409  
 Test ID: 009  
 Test Abbreviation: MANUAL\_009  
 Start Date: 04/01/2014  
 Start Time: 08:22:22  
 Duration (dd:hh:mm:ss): 0:01:45:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 7  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.023  
 Minimum: 0.013  
 Time of Minimum: 09:22:22  
 Date of Minimum: 04/01/2014  
 Maximum: 0.038  
 Time of Maximum: 08:52:22  
 Date of Maximum: 04/01/2014

Calibration Sensor: AEROSOL  
 Cal. date 03/07/2014

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 04/01/2014 | 08:37:22 |         | 0.033             |
| 04/01/2014 | 08:52:22 |         | 0.038             |
| 04/01/2014 | 09:07:22 |         | 0.022             |
| 04/01/2014 | 09:22:22 |         | 0.013             |
| 04/01/2014 | 09:37:22 |         | 0.016             |
| 04/01/2014 | 09:52:22 |         | 0.024             |
| 04/01/2014 | 10:07:22 |         | 0.016             |

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530104409  
 Test ID: 010  
 Test Abbreviation: MANUAL\_010  
 Start Date: 04/01/2014  
 Start Time: 11:55:37  
 Duration (dd:hh:mm:ss): 0:03:15:00  
 Log Interval (mm:ss): 15:00  
 Number of points: 13  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.020  
 Minimum: 0.016  
 Time of Minimum: 13:40:37  
 Date of Minimum: 04/01/2014  
 Maximum: 0.026  
 Time of Maximum: 13:55:37  
 Date of Maximum: 04/01/2014

DT R11550 033114 @BH 4 DW T1 DRILLING  
Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/01/2014 | 12:10:37 |         | 0.021             |
| 04/01/2014 | 12:25:37 |         | 0.020             |
| 04/01/2014 | 12:40:37 |         | 0.023             |
| 04/01/2014 | 12:55:37 |         | 0.020             |
| 04/01/2014 | 13:10:37 |         | 0.022             |
| 04/01/2014 | 13:25:37 |         | 0.022             |
| 04/01/2014 | 13:40:37 |         | 0.016             |
| 04/01/2014 | 13:55:37 |         | 0.026             |
| 04/01/2014 | 14:10:37 |         | 0.018             |
| 04/01/2014 | 14:25:37 |         | 0.017             |
| 04/01/2014 | 14:40:37 |         | 0.017             |
| 04/01/2014 | 14:55:37 |         | 0.017             |
| 04/01/2014 | 15:10:37 |         | 0.019             |

DT 17784 040114 UW @BH 6 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 009  
Test Abbreviation: MANUAL\_009  
Start Date: 04/01/2014  
Start Time: 08:00:23  
Duration (dd:hh:mm:ss): 0:08:25:00  
Log Interval (mm:ss): 01:00  
Number of points: 505  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.009  
Minimum: -0.046  
Time of Minimum: 12:03:23  
Date of Minimum: 04/01/2014  
Maximum: 0.252  
Time of Maximum: 13:53:23  
Date of Maximum: 04/01/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/01/2014 | 08:01:23 | 0.062             |
| 04/01/2014 | 08:02:23 | 0.010             |
| 04/01/2014 | 08:03:23 | 0.011             |
| 04/01/2014 | 08:04:23 | 0.010             |
| 04/01/2014 | 08:05:23 | 0.010             |
| 04/01/2014 | 08:06:23 | 0.011             |
| 04/01/2014 | 08:07:23 | 0.010             |
| 04/01/2014 | 08:08:23 | 0.010             |
| 04/01/2014 | 08:09:23 | 0.010             |
| 04/01/2014 | 08:10:23 | 0.011             |
| 04/01/2014 | 08:11:23 | 0.013             |
| 04/01/2014 | 08:12:23 | 0.010             |
| 04/01/2014 | 08:13:23 | 0.010             |
| 04/01/2014 | 08:14:23 | 0.011             |
| 04/01/2014 | 08:15:23 | 0.011             |
| 04/01/2014 | 08:16:23 | 0.014             |
| 04/01/2014 | 08:17:23 | 0.014             |
| 04/01/2014 | 08:18:23 | 0.011             |
| 04/01/2014 | 08:19:23 | 0.014             |
| 04/01/2014 | 08:20:23 | 0.011             |
| 04/01/2014 | 08:21:23 | 0.012             |
| 04/01/2014 | 08:22:23 | 0.012             |
| 04/01/2014 | 08:23:23 | 0.016             |
| 04/01/2014 | 08:24:23 | 0.010             |
| 04/01/2014 | 08:25:23 | 0.010             |
| 04/01/2014 | 08:26:23 | 0.010             |
| 04/01/2014 | 08:27:23 | 0.009             |
| 04/01/2014 | 08:28:23 | 0.023             |
| 04/01/2014 | 08:29:23 | 0.010             |
| 04/01/2014 | 08:30:23 | 0.011             |
| 04/01/2014 | 08:31:23 | 0.011             |
| 04/01/2014 | 08:32:23 | 0.010             |
| 04/01/2014 | 08:33:23 | 0.014             |
| 04/01/2014 | 08:34:23 | 0.172             |

## DT 17784 040114 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/01/2014 | 08:35:23 | 0.017 |
| 04/01/2014 | 08:36:23 | 0.015 |
| 04/01/2014 | 08:37:23 | 0.010 |
| 04/01/2014 | 08:38:23 | 0.010 |
| 04/01/2014 | 08:39:23 | 0.010 |
| 04/01/2014 | 08:40:23 | 0.009 |
| 04/01/2014 | 08:41:23 | 0.009 |
| 04/01/2014 | 08:42:23 | 0.009 |
| 04/01/2014 | 08:43:23 | 0.010 |
| 04/01/2014 | 08:44:23 | 0.036 |
| 04/01/2014 | 08:45:23 | 0.013 |
| 04/01/2014 | 08:46:23 | 0.011 |
| 04/01/2014 | 08:47:23 | 0.009 |
| 04/01/2014 | 08:48:23 | 0.010 |
| 04/01/2014 | 08:49:23 | 0.009 |
| 04/01/2014 | 08:50:23 | 0.011 |
| 04/01/2014 | 08:51:23 | 0.010 |
| 04/01/2014 | 08:52:23 | 0.009 |
| 04/01/2014 | 08:53:23 | 0.009 |
| 04/01/2014 | 08:54:23 | 0.010 |
| 04/01/2014 | 08:55:23 | 0.010 |
| 04/01/2014 | 08:56:23 | 0.009 |
| 04/01/2014 | 08:57:23 | 0.009 |
| 04/01/2014 | 08:58:23 | 0.009 |
| 04/01/2014 | 08:59:23 | 0.009 |
| 04/01/2014 | 09:00:23 | 0.073 |
| 04/01/2014 | 09:01:23 | 0.010 |
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| 04/01/2014 | 09:05:23 | 0.011 |
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| 04/01/2014 | 09:18:23 | 0.008 |
| 04/01/2014 | 09:19:23 | 0.008 |
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| 04/01/2014 | 09:21:23 | 0.009 |
| 04/01/2014 | 09:22:23 | 0.008 |
| 04/01/2014 | 09:23:23 | 0.008 |
| 04/01/2014 | 09:24:23 | 0.011 |
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| 04/01/2014 | 09:33:23 | 0.010 |
| 04/01/2014 | 09:34:23 | 0.008 |
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## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 10:15:23 | 0.006 |
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| 04/01/2014 | 10:17:23 | 0.016 |
| 04/01/2014 | 10:18:23 | 0.008 |
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| 04/01/2014 | 10:23:23 | 0.007 |
| 04/01/2014 | 10:24:23 | 0.009 |
| 04/01/2014 | 10:25:23 | 0.007 |
| 04/01/2014 | 10:26:23 | 0.007 |
| 04/01/2014 | 10:27:23 | 0.006 |
| 04/01/2014 | 10:28:23 | 0.006 |
| 04/01/2014 | 10:29:23 | 0.006 |
| 04/01/2014 | 10:30:23 | 0.006 |
| 04/01/2014 | 10:31:23 | 0.008 |
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| 04/01/2014 | 10:33:23 | 0.008 |
| 04/01/2014 | 10:34:23 | 0.007 |
| 04/01/2014 | 10:35:23 | 0.007 |
| 04/01/2014 | 10:36:23 | 0.007 |
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## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 10:45:23 | 0.007  |
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| 04/01/2014 | 10:47:23 | 0.007  |
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| 04/01/2014 | 10:53:23 | 0.007  |
| 04/01/2014 | 10:54:23 | 0.006  |
| 04/01/2014 | 10:55:23 | 0.006  |
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| 04/01/2014 | 10:57:23 | 0.007  |
| 04/01/2014 | 10:58:23 | -0.005 |
| 04/01/2014 | 10:59:23 | 0.009  |
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| 04/01/2014 | 11:01:23 | 0.007  |
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| 04/01/2014 | 11:04:23 | 0.012  |
| 04/01/2014 | 11:05:23 | 0.012  |
| 04/01/2014 | 11:06:23 | 0.008  |
| 04/01/2014 | 11:07:23 | 0.006  |
| 04/01/2014 | 11:08:23 | 0.006  |
| 04/01/2014 | 11:09:23 | 0.006  |
| 04/01/2014 | 11:10:23 | 0.007  |
| 04/01/2014 | 11:11:23 | 0.006  |
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| 04/01/2014 | 11:19:23 | 0.007  |
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| 04/01/2014 | 11:27:23 | 0.009  |
| 04/01/2014 | 11:28:23 | 0.008  |
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| 04/01/2014 | 11:40:23 | 0.008  |
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| 04/01/2014 | 11:42:23 | 0.008  |
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## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 11:52:23 | 0.011  |
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| 04/01/2014 | 12:09:23 | -0.041 |
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| 04/01/2014 | 12:11:23 | -0.043 |
| 04/01/2014 | 12:12:23 | -0.043 |
| 04/01/2014 | 12:13:23 | -0.042 |
| 04/01/2014 | 12:14:23 | -0.044 |
| 04/01/2014 | 12:15:23 | -0.043 |
| 04/01/2014 | 12:16:23 | -0.043 |
| 04/01/2014 | 12:17:23 | -0.044 |
| 04/01/2014 | 12:18:23 | -0.044 |
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| 04/01/2014 | 12:25:23 | -0.043 |
| 04/01/2014 | 12:26:23 | -0.039 |
| 04/01/2014 | 12:27:23 | -0.041 |
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| 04/01/2014 | 12:29:23 | -0.043 |
| 04/01/2014 | 12:30:23 | -0.042 |
| 04/01/2014 | 12:31:23 | -0.041 |
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| 04/01/2014 | 12:35:23 | -0.042 |
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| 04/01/2014 | 12:37:23 | -0.043 |
| 04/01/2014 | 12:38:23 | -0.042 |
| 04/01/2014 | 12:39:23 | -0.039 |
| 04/01/2014 | 12:40:23 | -0.041 |
| 04/01/2014 | 12:41:23 | -0.043 |
| 04/01/2014 | 12:42:23 | -0.043 |
| 04/01/2014 | 12:43:23 | -0.044 |
| 04/01/2014 | 12:44:23 | -0.044 |
| 04/01/2014 | 12:45:23 | -0.010 |
| 04/01/2014 | 12:46:23 | -0.033 |

## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 12:50:23 | -0.033 |
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| 04/01/2014 | 12:52:23 | -0.043 |
| 04/01/2014 | 12:53:23 | -0.043 |
| 04/01/2014 | 12:54:23 | -0.043 |
| 04/01/2014 | 12:55:23 | -0.043 |
| 04/01/2014 | 12:56:23 | -0.043 |
| 04/01/2014 | 12:57:23 | -0.043 |
| 04/01/2014 | 12:58:23 | -0.044 |
| 04/01/2014 | 12:59:23 | -0.045 |
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| 04/01/2014 | 13:02:23 | 0.013  |
| 04/01/2014 | 13:03:23 | 0.014  |
| 04/01/2014 | 13:04:23 | 0.012  |
| 04/01/2014 | 13:05:23 | 0.012  |
| 04/01/2014 | 13:06:23 | 0.014  |
| 04/01/2014 | 13:07:23 | 0.014  |
| 04/01/2014 | 13:08:23 | 0.015  |
| 04/01/2014 | 13:09:23 | 0.013  |
| 04/01/2014 | 13:10:23 | 0.013  |
| 04/01/2014 | 13:11:23 | 0.013  |
| 04/01/2014 | 13:12:23 | 0.013  |
| 04/01/2014 | 13:13:23 | 0.014  |
| 04/01/2014 | 13:14:23 | 0.013  |
| 04/01/2014 | 13:15:23 | 0.016  |
| 04/01/2014 | 13:16:23 | 0.018  |
| 04/01/2014 | 13:17:23 | 0.012  |
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| 04/01/2014 | 13:19:23 | 0.013  |
| 04/01/2014 | 13:20:23 | 0.013  |
| 04/01/2014 | 13:21:23 | 0.013  |
| 04/01/2014 | 13:22:23 | 0.015  |
| 04/01/2014 | 13:23:23 | 0.016  |
| 04/01/2014 | 13:24:23 | 0.016  |
| 04/01/2014 | 13:25:23 | 0.017  |
| 04/01/2014 | 13:26:23 | 0.016  |
| 04/01/2014 | 13:27:23 | 0.015  |
| 04/01/2014 | 13:28:23 | 0.015  |
| 04/01/2014 | 13:29:23 | 0.018  |
| 04/01/2014 | 13:30:23 | 0.018  |
| 04/01/2014 | 13:31:23 | 0.015  |
| 04/01/2014 | 13:32:23 | 0.017  |
| 04/01/2014 | 13:33:23 | 0.018  |
| 04/01/2014 | 13:34:23 | 0.015  |
| 04/01/2014 | 13:35:23 | 0.014  |
| 04/01/2014 | 13:36:23 | 0.015  |
| 04/01/2014 | 13:37:23 | 0.012  |
| 04/01/2014 | 13:38:23 | 0.019  |
| 04/01/2014 | 13:39:23 | 0.018  |
| 04/01/2014 | 13:40:23 | 0.017  |
| 04/01/2014 | 13:41:23 | 0.017  |
| 04/01/2014 | 13:42:23 | 0.017  |
| 04/01/2014 | 13:43:23 | 0.018  |
| 04/01/2014 | 13:44:23 | 0.018  |
| 04/01/2014 | 13:45:23 | 0.019  |
| 04/01/2014 | 13:46:23 | 0.019  |
| 04/01/2014 | 13:47:23 | 0.019  |
| 04/01/2014 | 13:48:23 | 0.020  |
| 04/01/2014 | 13:49:23 | 0.020  |

## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 13:55:23 | 0.020 |
| 04/01/2014 | 13:56:23 | 0.024 |
| 04/01/2014 | 13:57:23 | 0.024 |
| 04/01/2014 | 13:58:23 | 0.026 |
| 04/01/2014 | 13:59:23 | 0.025 |
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| 04/01/2014 | 14:01:23 | 0.026 |
| 04/01/2014 | 14:02:23 | 0.026 |
| 04/01/2014 | 14:03:23 | 0.021 |
| 04/01/2014 | 14:04:23 | 0.021 |
| 04/01/2014 | 14:05:23 | 0.018 |
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| 04/01/2014 | 14:07:23 | 0.019 |
| 04/01/2014 | 14:08:23 | 0.023 |
| 04/01/2014 | 14:09:23 | 0.021 |
| 04/01/2014 | 14:10:23 | 0.025 |
| 04/01/2014 | 14:11:23 | 0.022 |
| 04/01/2014 | 14:12:23 | 0.020 |
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| 04/01/2014 | 14:20:23 | 0.023 |
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| 04/01/2014 | 14:22:23 | 0.025 |
| 04/01/2014 | 14:23:23 | 0.070 |
| 04/01/2014 | 14:24:23 | 0.027 |
| 04/01/2014 | 14:25:23 | 0.019 |
| 04/01/2014 | 14:26:23 | 0.020 |
| 04/01/2014 | 14:27:23 | 0.021 |
| 04/01/2014 | 14:28:23 | 0.019 |
| 04/01/2014 | 14:29:23 | 0.017 |
| 04/01/2014 | 14:30:23 | 0.021 |
| 04/01/2014 | 14:31:23 | 0.016 |
| 04/01/2014 | 14:32:23 | 0.016 |
| 04/01/2014 | 14:33:23 | 0.015 |
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| 04/01/2014 | 14:35:23 | 0.015 |
| 04/01/2014 | 14:36:23 | 0.016 |
| 04/01/2014 | 14:37:23 | 0.019 |
| 04/01/2014 | 14:38:23 | 0.021 |
| 04/01/2014 | 14:39:23 | 0.018 |
| 04/01/2014 | 14:40:23 | 0.017 |
| 04/01/2014 | 14:41:23 | 0.017 |
| 04/01/2014 | 14:42:23 | 0.018 |
| 04/01/2014 | 14:43:23 | 0.017 |
| 04/01/2014 | 14:44:23 | 0.020 |
| 04/01/2014 | 14:45:23 | 0.023 |
| 04/01/2014 | 14:46:23 | 0.024 |
| 04/01/2014 | 14:47:23 | 0.020 |
| 04/01/2014 | 14:48:23 | 0.023 |
| 04/01/2014 | 14:49:23 | 0.018 |
| 04/01/2014 | 14:50:23 | 0.022 |
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## DT 17784 040114 UW @BH 6 DRILLING

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| 04/01/2014 | 14:56:23 | 0.025  |
| 04/01/2014 | 14:57:23 | 0.020  |
| 04/01/2014 | 14:58:23 | 0.021  |
| 04/01/2014 | 14:59:23 | 0.021  |
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| 04/01/2014 | 15:01:23 | 0.027  |
| 04/01/2014 | 15:02:23 | 0.022  |
| 04/01/2014 | 15:03:23 | 0.021  |
| 04/01/2014 | 15:04:23 | 0.022  |
| 04/01/2014 | 15:05:23 | 0.023  |
| 04/01/2014 | 15:06:23 | -0.020 |
| 04/01/2014 | 15:07:23 | -0.034 |
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| 04/01/2014 | 15:09:23 | -0.032 |
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| 04/01/2014 | 15:11:23 | -0.021 |
| 04/01/2014 | 15:12:23 | -0.022 |
| 04/01/2014 | 15:13:23 | -0.018 |
| 04/01/2014 | 15:14:23 | -0.033 |
| 04/01/2014 | 15:15:23 | -0.033 |
| 04/01/2014 | 15:16:23 | -0.030 |
| 04/01/2014 | 15:17:23 | -0.032 |
| 04/01/2014 | 15:18:23 | -0.032 |
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| 04/01/2014 | 15:23:23 | 0.026  |
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| 04/01/2014 | 15:25:23 | 0.026  |
| 04/01/2014 | 15:26:23 | 0.027  |
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| 04/01/2014 | 15:43:23 | 0.027  |
| 04/01/2014 | 15:44:23 | 0.035  |
| 04/01/2014 | 15:45:23 | 0.030  |
| 04/01/2014 | 15:46:23 | 0.031  |
| 04/01/2014 | 15:47:23 | 0.031  |
| 04/01/2014 | 15:48:23 | 0.033  |
| 04/01/2014 | 15:49:23 | 0.031  |
| 04/01/2014 | 15:50:23 | 0.049  |
| 04/01/2014 | 15:51:23 | 0.035  |
| 04/01/2014 | 15:52:23 | 0.029  |
| 04/01/2014 | 15:53:23 | 0.033  |
| 04/01/2014 | 15:54:23 | 0.031  |
| 04/01/2014 | 15:55:23 | 0.031  |

DT 17784 040114 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/01/2014 | 15:56:23 | 0.031 |
| 04/01/2014 | 15:57:23 | 0.038 |
| 04/01/2014 | 15:58:23 | 0.030 |
| 04/01/2014 | 15:59:23 | 0.026 |
| 04/01/2014 | 16:00:23 | 0.024 |
| 04/01/2014 | 16:01:23 | 0.054 |
| 04/01/2014 | 16:02:23 | 0.027 |
| 04/01/2014 | 16:03:23 | 0.041 |
| 04/01/2014 | 16:04:23 | 0.066 |
| 04/01/2014 | 16:05:23 | 0.058 |
| 04/01/2014 | 16:06:23 | 0.030 |
| 04/01/2014 | 16:07:23 | 0.028 |
| 04/01/2014 | 16:08:23 | 0.025 |
| 04/01/2014 | 16:09:23 | 0.027 |
| 04/01/2014 | 16:10:23 | 0.027 |
| 04/01/2014 | 16:11:23 | 0.029 |
| 04/01/2014 | 16:12:23 | 0.027 |
| 04/01/2014 | 16:13:23 | 0.028 |
| 04/01/2014 | 16:14:23 | 0.032 |
| 04/01/2014 | 16:15:23 | 0.035 |
| 04/01/2014 | 16:16:23 | 0.041 |
| 04/01/2014 | 16:17:23 | 0.030 |
| 04/01/2014 | 16:18:23 | 0.027 |
| 04/01/2014 | 16:19:23 | 0.029 |
| 04/01/2014 | 16:20:23 | 0.028 |
| 04/01/2014 | 16:21:23 | 0.031 |
| 04/01/2014 | 16:22:23 | 0.031 |
| 04/01/2014 | 16:23:23 | 0.061 |
| 04/01/2014 | 16:24:23 | 0.029 |
| 04/01/2014 | 16:25:23 | 0.036 |

DT R11553 040114 @BH 6 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 015  
Test Abbreviation: MANUAL\_015  
Start Date: 04/01/2014  
Start Time: 08:03:31  
Duration (dd:hh:mm:ss): 0:08:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 33  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.012  
Minimum: 0.004  
Time of Minimum: 10:03:31  
Date of Minimum: 04/01/2014  
Maximum: 0.023  
Time of Maximum: 15:48:31  
Date of Maximum: 04/01/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/01/2014 | 08:18:31 | 0.008             |
| 04/01/2014 | 08:33:31 | 0.006             |
| 04/01/2014 | 08:48:31 | 0.006             |
| 04/01/2014 | 09:03:31 | 0.005             |
| 04/01/2014 | 09:18:31 | 0.007             |
| 04/01/2014 | 09:33:31 | 0.006             |
| 04/01/2014 | 09:48:31 | 0.011             |
| 04/01/2014 | 10:03:31 | 0.004             |
| 04/01/2014 | 10:18:31 | 0.005             |
| 04/01/2014 | 10:33:31 | 0.005             |
| 04/01/2014 | 10:48:31 | 0.004             |
| 04/01/2014 | 11:03:31 | 0.005             |
| 04/01/2014 | 11:18:31 | 0.005             |
| 04/01/2014 | 11:33:31 | 0.006             |
| 04/01/2014 | 11:48:31 | 0.007             |
| 04/01/2014 | 12:03:31 | 0.012             |
| 04/01/2014 | 12:18:31 | 0.014             |
| 04/01/2014 | 12:33:31 | 0.013             |
| 04/01/2014 | 12:48:31 | 0.017             |
| 04/01/2014 | 13:03:31 | 0.016             |
| 04/01/2014 | 13:18:31 | 0.016             |
| 04/01/2014 | 13:33:31 | 0.013             |
| 04/01/2014 | 13:48:31 | 0.017             |
| 04/01/2014 | 14:03:31 | 0.019             |
| 04/01/2014 | 14:18:31 | 0.016             |
| 04/01/2014 | 14:33:31 | 0.015             |
| 04/01/2014 | 14:48:31 | 0.017             |
| 04/01/2014 | 15:03:31 | 0.015             |
| 04/01/2014 | 15:18:31 | 0.019             |
| 04/01/2014 | 15:33:31 | 0.021             |
| 04/01/2014 | 15:48:31 | 0.023             |
| 04/01/2014 | 16:03:31 | 0.023             |
| 04/01/2014 | 16:18:31 | 0.020             |

DT 17784 040214 UW @BH 6 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/02/2014  
Start Time: 08:58:57  
Duration (dd:hh:mm:ss): 0:06:28:00  
Log Interval (mm:ss): 01:00  
Number of points: 388  
Notes:

Statistics Channel: AEROSOL  
Units:  $\text{mg}/\text{m}^3$   
Average: 0.032  
Minimum: -0.032  
Time of Minimum: 09:02:57  
Date of Minimum: 04/02/2014  
Maximum: 0.311  
Time of Maximum: 10:14:57  
Date of Maximum: 04/02/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL                |
|------------|----------|------------------------|
| MM/dd/yyyy | hh:mm:ss | $\text{mg}/\text{m}^3$ |
| 04/02/2014 | 08:59:57 | -0.018                 |
| 04/02/2014 | 09:00:57 | -0.031                 |
| 04/02/2014 | 09:01:57 | -0.030                 |
| 04/02/2014 | 09:02:57 | -0.032                 |
| 04/02/2014 | 09:03:57 | -0.032                 |
| 04/02/2014 | 09:04:57 | -0.031                 |
| 04/02/2014 | 09:05:57 | -0.030                 |
| 04/02/2014 | 09:06:57 | -0.031                 |
| 04/02/2014 | 09:07:57 | -0.027                 |
| 04/02/2014 | 09:08:57 | -0.028                 |
| 04/02/2014 | 09:09:57 | -0.028                 |
| 04/02/2014 | 09:10:57 | -0.029                 |
| 04/02/2014 | 09:11:57 | -0.030                 |
| 04/02/2014 | 09:12:57 | -0.029                 |
| 04/02/2014 | 09:13:57 | -0.030                 |
| 04/02/2014 | 09:14:57 | -0.030                 |
| 04/02/2014 | 09:15:57 | -0.031                 |
| 04/02/2014 | 09:16:57 | -0.031                 |
| 04/02/2014 | 09:17:57 | -0.028                 |
| 04/02/2014 | 09:18:57 | -0.024                 |
| 04/02/2014 | 09:19:57 | -0.028                 |
| 04/02/2014 | 09:20:57 | -0.028                 |
| 04/02/2014 | 09:21:57 | -0.026                 |
| 04/02/2014 | 09:22:57 | -0.024                 |
| 04/02/2014 | 09:23:57 | -0.026                 |
| 04/02/2014 | 09:24:57 | -0.027                 |
| 04/02/2014 | 09:25:57 | -0.027                 |
| 04/02/2014 | 09:26:57 | -0.027                 |
| 04/02/2014 | 09:27:57 | -0.027                 |
| 04/02/2014 | 09:28:57 | -0.009                 |
| 04/02/2014 | 09:29:57 | 0.029                  |
| 04/02/2014 | 09:30:57 | 0.027                  |
| 04/02/2014 | 09:31:57 | 0.025                  |
| 04/02/2014 | 09:32:57 | 0.026                  |

## DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 09:33:57 | 0.027 |
| 04/02/2014 | 09:34:57 | 0.033 |
| 04/02/2014 | 09:35:57 | 0.049 |
| 04/02/2014 | 09:36:57 | 0.076 |
| 04/02/2014 | 09:37:57 | 0.029 |
| 04/02/2014 | 09:38:57 | 0.048 |
| 04/02/2014 | 09:39:57 | 0.054 |
| 04/02/2014 | 09:40:57 | 0.051 |
| 04/02/2014 | 09:41:57 | 0.052 |
| 04/02/2014 | 09:42:57 | 0.039 |
| 04/02/2014 | 09:43:57 | 0.049 |
| 04/02/2014 | 09:44:57 | 0.048 |
| 04/02/2014 | 09:45:57 | 0.031 |
| 04/02/2014 | 09:46:57 | 0.096 |
| 04/02/2014 | 09:47:57 | 0.112 |
| 04/02/2014 | 09:48:57 | 0.035 |
| 04/02/2014 | 09:49:57 | 0.045 |
| 04/02/2014 | 09:50:57 | 0.028 |
| 04/02/2014 | 09:51:57 | 0.027 |
| 04/02/2014 | 09:52:57 | 0.029 |
| 04/02/2014 | 09:53:57 | 0.042 |
| 04/02/2014 | 09:54:57 | 0.022 |
| 04/02/2014 | 09:55:57 | 0.030 |
| 04/02/2014 | 09:56:57 | 0.025 |
| 04/02/2014 | 09:57:57 | 0.026 |
| 04/02/2014 | 09:58:57 | 0.027 |
| 04/02/2014 | 09:59:57 | 0.034 |
| 04/02/2014 | 10:00:57 | 0.033 |
| 04/02/2014 | 10:01:57 | 0.036 |
| 04/02/2014 | 10:02:57 | 0.162 |
| 04/02/2014 | 10:03:57 | 0.041 |
| 04/02/2014 | 10:04:57 | 0.028 |
| 04/02/2014 | 10:05:57 | 0.045 |
| 04/02/2014 | 10:06:57 | 0.023 |
| 04/02/2014 | 10:07:57 | 0.024 |
| 04/02/2014 | 10:08:57 | 0.019 |
| 04/02/2014 | 10:09:57 | 0.026 |
| 04/02/2014 | 10:10:57 | 0.082 |
| 04/02/2014 | 10:11:57 | 0.071 |
| 04/02/2014 | 10:12:57 | 0.028 |
| 04/02/2014 | 10:13:57 | 0.195 |
| 04/02/2014 | 10:14:57 | 0.311 |
| 04/02/2014 | 10:15:57 | 0.063 |
| 04/02/2014 | 10:16:57 | 0.034 |
| 04/02/2014 | 10:17:57 | 0.026 |
| 04/02/2014 | 10:18:57 | 0.021 |
| 04/02/2014 | 10:19:57 | 0.020 |
| 04/02/2014 | 10:20:57 | 0.024 |
| 04/02/2014 | 10:21:57 | 0.033 |
| 04/02/2014 | 10:22:57 | 0.035 |
| 04/02/2014 | 10:23:57 | 0.026 |
| 04/02/2014 | 10:24:57 | 0.025 |
| 04/02/2014 | 10:25:57 | 0.024 |
| 04/02/2014 | 10:26:57 | 0.060 |
| 04/02/2014 | 10:27:57 | 0.054 |
| 04/02/2014 | 10:28:57 | 0.046 |
| 04/02/2014 | 10:29:57 | 0.059 |
| 04/02/2014 | 10:30:57 | 0.057 |
| 04/02/2014 | 10:31:57 | 0.035 |
| 04/02/2014 | 10:32:57 | 0.030 |
| 04/02/2014 | 10:33:57 | 0.030 |
| 04/02/2014 | 10:34:57 | 0.030 |
| 04/02/2014 | 10:35:57 | 0.030 |

## DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 10:36:57 | 0.031 |
| 04/02/2014 | 10:37:57 | 0.030 |
| 04/02/2014 | 10:38:57 | 0.029 |
| 04/02/2014 | 10:39:57 | 0.029 |
| 04/02/2014 | 10:40:57 | 0.029 |
| 04/02/2014 | 10:41:57 | 0.030 |
| 04/02/2014 | 10:42:57 | 0.028 |
| 04/02/2014 | 10:43:57 | 0.034 |
| 04/02/2014 | 10:44:57 | 0.029 |
| 04/02/2014 | 10:45:57 | 0.030 |
| 04/02/2014 | 10:46:57 | 0.029 |
| 04/02/2014 | 10:47:57 | 0.039 |
| 04/02/2014 | 10:48:57 | 0.047 |
| 04/02/2014 | 10:49:57 | 0.035 |
| 04/02/2014 | 10:50:57 | 0.031 |
| 04/02/2014 | 10:51:57 | 0.028 |
| 04/02/2014 | 10:52:57 | 0.028 |
| 04/02/2014 | 10:53:57 | 0.025 |
| 04/02/2014 | 10:54:57 | 0.033 |
| 04/02/2014 | 10:55:57 | 0.027 |
| 04/02/2014 | 10:56:57 | 0.025 |
| 04/02/2014 | 10:57:57 | 0.026 |
| 04/02/2014 | 10:58:57 | 0.027 |
| 04/02/2014 | 10:59:57 | 0.026 |
| 04/02/2014 | 11:00:57 | 0.026 |
| 04/02/2014 | 11:01:57 | 0.030 |
| 04/02/2014 | 11:02:57 | 0.029 |
| 04/02/2014 | 11:03:57 | 0.027 |
| 04/02/2014 | 11:04:57 | 0.028 |
| 04/02/2014 | 11:05:57 | 0.029 |
| 04/02/2014 | 11:06:57 | 0.029 |
| 04/02/2014 | 11:07:57 | 0.023 |
| 04/02/2014 | 11:08:57 | 0.024 |
| 04/02/2014 | 11:09:57 | 0.023 |
| 04/02/2014 | 11:10:57 | 0.023 |
| 04/02/2014 | 11:11:57 | 0.024 |
| 04/02/2014 | 11:12:57 | 0.023 |
| 04/02/2014 | 11:13:57 | 0.026 |
| 04/02/2014 | 11:14:57 | 0.032 |
| 04/02/2014 | 11:15:57 | 0.024 |
| 04/02/2014 | 11:16:57 | 0.023 |
| 04/02/2014 | 11:17:57 | 0.022 |
| 04/02/2014 | 11:18:57 | 0.020 |
| 04/02/2014 | 11:19:57 | 0.022 |
| 04/02/2014 | 11:20:57 | 0.023 |
| 04/02/2014 | 11:21:57 | 0.025 |
| 04/02/2014 | 11:22:57 | 0.025 |
| 04/02/2014 | 11:23:57 | 0.024 |
| 04/02/2014 | 11:24:57 | 0.024 |
| 04/02/2014 | 11:25:57 | 0.025 |
| 04/02/2014 | 11:26:57 | 0.024 |
| 04/02/2014 | 11:27:57 | 0.025 |
| 04/02/2014 | 11:28:57 | 0.027 |
| 04/02/2014 | 11:29:57 | 0.026 |
| 04/02/2014 | 11:30:57 | 0.033 |
| 04/02/2014 | 11:31:57 | 0.028 |
| 04/02/2014 | 11:32:57 | 0.028 |
| 04/02/2014 | 11:33:57 | 0.027 |
| 04/02/2014 | 11:34:57 | 0.026 |
| 04/02/2014 | 11:35:57 | 0.027 |
| 04/02/2014 | 11:36:57 | 0.027 |
| 04/02/2014 | 11:37:57 | 0.025 |
| 04/02/2014 | 11:38:57 | 0.026 |

## DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 11:39:57 | 0.026 |
| 04/02/2014 | 11:40:57 | 0.027 |
| 04/02/2014 | 11:41:57 | 0.025 |
| 04/02/2014 | 11:42:57 | 0.036 |
| 04/02/2014 | 11:43:57 | 0.029 |
| 04/02/2014 | 11:44:57 | 0.025 |
| 04/02/2014 | 11:45:57 | 0.027 |
| 04/02/2014 | 11:46:57 | 0.026 |
| 04/02/2014 | 11:47:57 | 0.026 |
| 04/02/2014 | 11:48:57 | 0.027 |
| 04/02/2014 | 11:49:57 | 0.029 |
| 04/02/2014 | 11:50:57 | 0.029 |
| 04/02/2014 | 11:51:57 | 0.030 |
| 04/02/2014 | 11:52:57 | 0.029 |
| 04/02/2014 | 11:53:57 | 0.033 |
| 04/02/2014 | 11:54:57 | 0.027 |
| 04/02/2014 | 11:55:57 | 0.027 |
| 04/02/2014 | 11:56:57 | 0.027 |
| 04/02/2014 | 11:57:57 | 0.029 |
| 04/02/2014 | 11:58:57 | 0.030 |
| 04/02/2014 | 11:59:57 | 0.029 |
| 04/02/2014 | 12:00:57 | 0.030 |
| 04/02/2014 | 12:01:57 | 0.029 |
| 04/02/2014 | 12:02:57 | 0.028 |
| 04/02/2014 | 12:03:57 | 0.028 |
| 04/02/2014 | 12:04:57 | 0.030 |
| 04/02/2014 | 12:05:57 | 0.032 |
| 04/02/2014 | 12:06:57 | 0.032 |
| 04/02/2014 | 12:07:57 | 0.032 |
| 04/02/2014 | 12:08:57 | 0.032 |
| 04/02/2014 | 12:09:57 | 0.031 |
| 04/02/2014 | 12:10:57 | 0.030 |
| 04/02/2014 | 12:11:57 | 0.030 |
| 04/02/2014 | 12:12:57 | 0.031 |
| 04/02/2014 | 12:13:57 | 0.030 |
| 04/02/2014 | 12:14:57 | 0.030 |
| 04/02/2014 | 12:15:57 | 0.030 |
| 04/02/2014 | 12:16:57 | 0.032 |
| 04/02/2014 | 12:17:57 | 0.033 |
| 04/02/2014 | 12:18:57 | 0.032 |
| 04/02/2014 | 12:19:57 | 0.035 |
| 04/02/2014 | 12:20:57 | 0.031 |
| 04/02/2014 | 12:21:57 | 0.029 |
| 04/02/2014 | 12:22:57 | 0.030 |
| 04/02/2014 | 12:23:57 | 0.031 |
| 04/02/2014 | 12:24:57 | 0.031 |
| 04/02/2014 | 12:25:57 | 0.032 |
| 04/02/2014 | 12:26:57 | 0.032 |
| 04/02/2014 | 12:27:57 | 0.033 |
| 04/02/2014 | 12:28:57 | 0.034 |
| 04/02/2014 | 12:29:57 | 0.035 |
| 04/02/2014 | 12:30:57 | 0.034 |
| 04/02/2014 | 12:31:57 | 0.034 |
| 04/02/2014 | 12:32:57 | 0.039 |
| 04/02/2014 | 12:33:57 | 0.039 |
| 04/02/2014 | 12:34:57 | 0.036 |
| 04/02/2014 | 12:35:57 | 0.036 |
| 04/02/2014 | 12:36:57 | 0.034 |
| 04/02/2014 | 12:37:57 | 0.034 |
| 04/02/2014 | 12:38:57 | 0.033 |
| 04/02/2014 | 12:39:57 | 0.032 |
| 04/02/2014 | 12:40:57 | 0.030 |
| 04/02/2014 | 12:41:57 | 0.030 |

## DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 12:42:57 | 0.031 |
| 04/02/2014 | 12:43:57 | 0.030 |
| 04/02/2014 | 12:44:57 | 0.030 |
| 04/02/2014 | 12:45:57 | 0.031 |
| 04/02/2014 | 12:46:57 | 0.032 |
| 04/02/2014 | 12:47:57 | 0.031 |
| 04/02/2014 | 12:48:57 | 0.031 |
| 04/02/2014 | 12:49:57 | 0.032 |
| 04/02/2014 | 12:50:57 | 0.033 |
| 04/02/2014 | 12:51:57 | 0.040 |
| 04/02/2014 | 12:52:57 | 0.046 |
| 04/02/2014 | 12:53:57 | 0.035 |
| 04/02/2014 | 12:54:57 | 0.041 |
| 04/02/2014 | 12:55:57 | 0.048 |
| 04/02/2014 | 12:56:57 | 0.037 |
| 04/02/2014 | 12:57:57 | 0.037 |
| 04/02/2014 | 12:58:57 | 0.038 |
| 04/02/2014 | 12:59:57 | 0.045 |
| 04/02/2014 | 13:00:57 | 0.042 |
| 04/02/2014 | 13:01:57 | 0.040 |
| 04/02/2014 | 13:02:57 | 0.041 |
| 04/02/2014 | 13:03:57 | 0.046 |
| 04/02/2014 | 13:04:57 | 0.049 |
| 04/02/2014 | 13:05:57 | 0.053 |
| 04/02/2014 | 13:06:57 | 0.046 |
| 04/02/2014 | 13:07:57 | 0.047 |
| 04/02/2014 | 13:08:57 | 0.049 |
| 04/02/2014 | 13:09:57 | 0.041 |
| 04/02/2014 | 13:10:57 | 0.046 |
| 04/02/2014 | 13:11:57 | 0.041 |
| 04/02/2014 | 13:12:57 | 0.047 |
| 04/02/2014 | 13:13:57 | 0.042 |
| 04/02/2014 | 13:14:57 | 0.037 |
| 04/02/2014 | 13:15:57 | 0.040 |
| 04/02/2014 | 13:16:57 | 0.041 |
| 04/02/2014 | 13:17:57 | 0.050 |
| 04/02/2014 | 13:18:57 | 0.052 |
| 04/02/2014 | 13:19:57 | 0.040 |
| 04/02/2014 | 13:20:57 | 0.045 |
| 04/02/2014 | 13:21:57 | 0.058 |
| 04/02/2014 | 13:22:57 | 0.201 |
| 04/02/2014 | 13:23:57 | 0.130 |
| 04/02/2014 | 13:24:57 | 0.182 |
| 04/02/2014 | 13:25:57 | 0.042 |
| 04/02/2014 | 13:26:57 | 0.056 |
| 04/02/2014 | 13:27:57 | 0.038 |
| 04/02/2014 | 13:28:57 | 0.042 |
| 04/02/2014 | 13:29:57 | 0.038 |
| 04/02/2014 | 13:30:57 | 0.039 |
| 04/02/2014 | 13:31:57 | 0.039 |
| 04/02/2014 | 13:32:57 | 0.040 |
| 04/02/2014 | 13:33:57 | 0.038 |
| 04/02/2014 | 13:34:57 | 0.042 |
| 04/02/2014 | 13:35:57 | 0.037 |
| 04/02/2014 | 13:36:57 | 0.036 |
| 04/02/2014 | 13:37:57 | 0.031 |
| 04/02/2014 | 13:38:57 | 0.031 |
| 04/02/2014 | 13:39:57 | 0.031 |
| 04/02/2014 | 13:40:57 | 0.033 |
| 04/02/2014 | 13:41:57 | 0.036 |
| 04/02/2014 | 13:42:57 | 0.034 |
| 04/02/2014 | 13:43:57 | 0.037 |
| 04/02/2014 | 13:44:57 | 0.033 |

## DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 13:45:57 | 0.031 |
| 04/02/2014 | 13:46:57 | 0.032 |
| 04/02/2014 | 13:47:57 | 0.033 |
| 04/02/2014 | 13:48:57 | 0.036 |
| 04/02/2014 | 13:49:57 | 0.032 |
| 04/02/2014 | 13:50:57 | 0.033 |
| 04/02/2014 | 13:51:57 | 0.036 |
| 04/02/2014 | 13:52:57 | 0.034 |
| 04/02/2014 | 13:53:57 | 0.033 |
| 04/02/2014 | 13:54:57 | 0.036 |
| 04/02/2014 | 13:55:57 | 0.036 |
| 04/02/2014 | 13:56:57 | 0.035 |
| 04/02/2014 | 13:57:57 | 0.035 |
| 04/02/2014 | 13:58:57 | 0.035 |
| 04/02/2014 | 13:59:57 | 0.037 |
| 04/02/2014 | 14:00:57 | 0.032 |
| 04/02/2014 | 14:01:57 | 0.032 |
| 04/02/2014 | 14:02:57 | 0.030 |
| 04/02/2014 | 14:03:57 | 0.029 |
| 04/02/2014 | 14:04:57 | 0.030 |
| 04/02/2014 | 14:05:57 | 0.030 |
| 04/02/2014 | 14:06:57 | 0.030 |
| 04/02/2014 | 14:07:57 | 0.030 |
| 04/02/2014 | 14:08:57 | 0.030 |
| 04/02/2014 | 14:09:57 | 0.034 |
| 04/02/2014 | 14:10:57 | 0.035 |
| 04/02/2014 | 14:11:57 | 0.037 |
| 04/02/2014 | 14:12:57 | 0.036 |
| 04/02/2014 | 14:13:57 | 0.040 |
| 04/02/2014 | 14:14:57 | 0.033 |
| 04/02/2014 | 14:15:57 | 0.036 |
| 04/02/2014 | 14:16:57 | 0.038 |
| 04/02/2014 | 14:17:57 | 0.033 |
| 04/02/2014 | 14:18:57 | 0.034 |
| 04/02/2014 | 14:19:57 | 0.037 |
| 04/02/2014 | 14:20:57 | 0.047 |
| 04/02/2014 | 14:21:57 | 0.038 |
| 04/02/2014 | 14:22:57 | 0.037 |
| 04/02/2014 | 14:23:57 | 0.038 |
| 04/02/2014 | 14:24:57 | 0.034 |
| 04/02/2014 | 14:25:57 | 0.035 |
| 04/02/2014 | 14:26:57 | 0.035 |
| 04/02/2014 | 14:27:57 | 0.034 |
| 04/02/2014 | 14:28:57 | 0.035 |
| 04/02/2014 | 14:29:57 | 0.040 |
| 04/02/2014 | 14:30:57 | 0.043 |
| 04/02/2014 | 14:31:57 | 0.035 |
| 04/02/2014 | 14:32:57 | 0.033 |
| 04/02/2014 | 14:33:57 | 0.034 |
| 04/02/2014 | 14:34:57 | 0.035 |
| 04/02/2014 | 14:35:57 | 0.036 |
| 04/02/2014 | 14:36:57 | 0.036 |
| 04/02/2014 | 14:37:57 | 0.036 |
| 04/02/2014 | 14:38:57 | 0.041 |
| 04/02/2014 | 14:39:57 | 0.036 |
| 04/02/2014 | 14:40:57 | 0.034 |
| 04/02/2014 | 14:41:57 | 0.035 |
| 04/02/2014 | 14:42:57 | 0.035 |
| 04/02/2014 | 14:43:57 | 0.036 |
| 04/02/2014 | 14:44:57 | 0.035 |
| 04/02/2014 | 14:45:57 | 0.045 |
| 04/02/2014 | 14:46:57 | 0.032 |
| 04/02/2014 | 14:47:57 | 0.032 |

DT 17784 040214 UW @BH 6 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/02/2014 | 14:48:57 | 0.029 |
| 04/02/2014 | 14:49:57 | 0.029 |
| 04/02/2014 | 14:50:57 | 0.029 |
| 04/02/2014 | 14:51:57 | 0.034 |
| 04/02/2014 | 14:52:57 | 0.028 |
| 04/02/2014 | 14:53:57 | 0.028 |
| 04/02/2014 | 14:54:57 | 0.027 |
| 04/02/2014 | 14:55:57 | 0.026 |
| 04/02/2014 | 14:56:57 | 0.030 |
| 04/02/2014 | 14:57:57 | 0.032 |
| 04/02/2014 | 14:58:57 | 0.033 |
| 04/02/2014 | 14:59:57 | 0.031 |
| 04/02/2014 | 15:00:57 | 0.028 |
| 04/02/2014 | 15:01:57 | 0.027 |
| 04/02/2014 | 15:02:57 | 0.028 |
| 04/02/2014 | 15:03:57 | 0.030 |
| 04/02/2014 | 15:04:57 | 0.031 |
| 04/02/2014 | 15:05:57 | 0.034 |
| 04/02/2014 | 15:06:57 | 0.030 |
| 04/02/2014 | 15:07:57 | 0.028 |
| 04/02/2014 | 15:08:57 | 0.025 |
| 04/02/2014 | 15:09:57 | 0.029 |
| 04/02/2014 | 15:10:57 | 0.036 |
| 04/02/2014 | 15:11:57 | 0.029 |
| 04/02/2014 | 15:12:57 | 0.027 |
| 04/02/2014 | 15:13:57 | 0.032 |
| 04/02/2014 | 15:14:57 | 0.031 |
| 04/02/2014 | 15:15:57 | 0.027 |
| 04/02/2014 | 15:16:57 | 0.028 |
| 04/02/2014 | 15:17:57 | 0.032 |
| 04/02/2014 | 15:18:57 | 0.027 |
| 04/02/2014 | 15:19:57 | 0.029 |
| 04/02/2014 | 15:20:57 | 0.028 |
| 04/02/2014 | 15:21:57 | 0.039 |
| 04/02/2014 | 15:22:57 | 0.028 |
| 04/02/2014 | 15:23:57 | 0.026 |
| 04/02/2014 | 15:24:57 | 0.025 |
| 04/02/2014 | 15:25:57 | 0.025 |
| 04/02/2014 | 15:26:57 | 0.031 |

DT R11553 040214 @BH 6 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104404  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/02/2014  
Start Time: 09:07:12  
Duration (dd:hh:mm:ss): 0:06:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 25  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.023  
Minimum: 0.015  
Time of Minimum: 11:22:12  
Date of Minimum: 04/02/2014  
Maximum: 0.035  
Time of Maximum: 13:22:12  
Date of Maximum: 04/02/2014

Calibration Sensor: AEROSOL  
Cal. date 06/27/2012

| Date       | Time     | AEROSOL | mg/m <sup>3</sup> |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         |                   |
| 04/02/2014 | 09:22:12 |         | 0.021             |
| 04/02/2014 | 09:37:12 |         | 0.020             |
| 04/02/2014 | 09:52:12 |         | 0.021             |
| 04/02/2014 | 10:07:12 |         | 0.025             |
| 04/02/2014 | 10:22:12 |         | 0.023             |
| 04/02/2014 | 10:37:12 |         | 0.022             |
| 04/02/2014 | 10:52:12 |         | 0.018             |
| 04/02/2014 | 11:07:12 |         | 0.017             |
| 04/02/2014 | 11:22:12 |         | 0.015             |
| 04/02/2014 | 11:37:12 |         | 0.016             |
| 04/02/2014 | 11:52:12 |         | 0.017             |
| 04/02/2014 | 12:07:12 |         | 0.020             |
| 04/02/2014 | 12:22:12 |         | 0.022             |
| 04/02/2014 | 12:37:12 |         | 0.024             |
| 04/02/2014 | 12:52:12 |         | 0.024             |
| 04/02/2014 | 13:07:12 |         | 0.028             |
| 04/02/2014 | 13:22:12 |         | 0.035             |
| 04/02/2014 | 13:37:12 |         | 0.032             |
| 04/02/2014 | 13:52:12 |         | 0.026             |
| 04/02/2014 | 14:07:12 |         | 0.028             |
| 04/02/2014 | 14:22:12 |         | 0.028             |
| 04/02/2014 | 14:37:12 |         | 0.029             |
| 04/02/2014 | 14:52:12 |         | 0.027             |
| 04/02/2014 | 15:07:12 |         | 0.022             |
| 04/02/2014 | 15:22:12 |         | 0.021             |

DT 17784 040314 UW @BH 7 9 11 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 04/03/2014  
Start Time: 08:16:29  
Duration (dd:hh:mm:ss): 0:08:55:00  
Log Interval (mm:ss): 01:00  
Number of points: 535  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.032  
Minimum: -0.028  
Time of Minimum: 13:27:29  
Date of Minimum: 04/03/2014  
Maximum: 0.218  
Time of Maximum: 08:17:29  
Date of Maximum: 04/03/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/03/2014 | 08:17:29 | 0.218             |
| 04/03/2014 | 08:18:29 | 0.028             |
| 04/03/2014 | 08:19:29 | 0.027             |
| 04/03/2014 | 08:20:29 | 0.029             |
| 04/03/2014 | 08:21:29 | 0.029             |
| 04/03/2014 | 08:22:29 | 0.051             |
| 04/03/2014 | 08:23:29 | 0.028             |
| 04/03/2014 | 08:24:29 | 0.026             |
| 04/03/2014 | 08:25:29 | 0.026             |
| 04/03/2014 | 08:26:29 | 0.026             |
| 04/03/2014 | 08:27:29 | 0.026             |
| 04/03/2014 | 08:28:29 | 0.027             |
| 04/03/2014 | 08:29:29 | 0.027             |
| 04/03/2014 | 08:30:29 | 0.028             |
| 04/03/2014 | 08:31:29 | 0.027             |
| 04/03/2014 | 08:32:29 | 0.033             |
| 04/03/2014 | 08:33:29 | 0.027             |
| 04/03/2014 | 08:34:29 | 0.029             |
| 04/03/2014 | 08:35:29 | 0.031             |
| 04/03/2014 | 08:36:29 | 0.027             |
| 04/03/2014 | 08:37:29 | 0.028             |
| 04/03/2014 | 08:38:29 | 0.027             |
| 04/03/2014 | 08:39:29 | 0.030             |
| 04/03/2014 | 08:40:29 | 0.030             |
| 04/03/2014 | 08:41:29 | 0.027             |
| 04/03/2014 | 08:42:29 | 0.031             |
| 04/03/2014 | 08:43:29 | 0.058             |
| 04/03/2014 | 08:44:29 | 0.026             |
| 04/03/2014 | 08:45:29 | 0.026             |
| 04/03/2014 | 08:46:29 | 0.027             |
| 04/03/2014 | 08:47:29 | 0.028             |
| 04/03/2014 | 08:48:29 | 0.027             |
| 04/03/2014 | 08:49:29 | 0.027             |
| 04/03/2014 | 08:50:29 | 0.026             |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 08:51:29 | 0.027 |
| 04/03/2014                             | 08:52:29 | 0.027 |
| 04/03/2014                             | 08:53:29 | 0.028 |
| 04/03/2014                             | 08:54:29 | 0.028 |
| 04/03/2014                             | 08:55:29 | 0.026 |
| 04/03/2014                             | 08:56:29 | 0.026 |
| 04/03/2014                             | 08:57:29 | 0.026 |
| 04/03/2014                             | 08:58:29 | 0.027 |
| 04/03/2014                             | 08:59:29 | 0.027 |
| 04/03/2014                             | 09:00:29 | 0.027 |
| 04/03/2014                             | 09:01:29 | 0.027 |
| 04/03/2014                             | 09:02:29 | 0.026 |
| 04/03/2014                             | 09:03:29 | 0.026 |
| 04/03/2014                             | 09:04:29 | 0.026 |
| 04/03/2014                             | 09:05:29 | 0.026 |
| 04/03/2014                             | 09:06:29 | 0.027 |
| 04/03/2014                             | 09:07:29 | 0.027 |
| 04/03/2014                             | 09:08:29 | 0.027 |
| 04/03/2014                             | 09:09:29 | 0.026 |
| 04/03/2014                             | 09:10:29 | 0.026 |
| 04/03/2014                             | 09:11:29 | 0.027 |
| 04/03/2014                             | 09:12:29 | 0.027 |
| 04/03/2014                             | 09:13:29 | 0.027 |
| 04/03/2014                             | 09:14:29 | 0.030 |
| 04/03/2014                             | 09:15:29 | 0.026 |
| 04/03/2014                             | 09:16:29 | 0.028 |
| 04/03/2014                             | 09:17:29 | 0.031 |
| 04/03/2014                             | 09:18:29 | 0.031 |
| 04/03/2014                             | 09:19:29 | 0.029 |
| 04/03/2014                             | 09:20:29 | 0.027 |
| 04/03/2014                             | 09:21:29 | 0.026 |
| 04/03/2014                             | 09:22:29 | 0.027 |
| 04/03/2014                             | 09:23:29 | 0.030 |
| 04/03/2014                             | 09:24:29 | 0.029 |
| 04/03/2014                             | 09:25:29 | 0.027 |
| 04/03/2014                             | 09:26:29 | 0.029 |
| 04/03/2014                             | 09:27:29 | 0.031 |
| 04/03/2014                             | 09:28:29 | 0.030 |
| 04/03/2014                             | 09:29:29 | 0.029 |
| 04/03/2014                             | 09:30:29 | 0.029 |
| 04/03/2014                             | 09:31:29 | 0.029 |
| 04/03/2014                             | 09:32:29 | 0.029 |
| 04/03/2014                             | 09:33:29 | 0.029 |
| 04/03/2014                             | 09:34:29 | 0.029 |
| 04/03/2014                             | 09:35:29 | 0.029 |
| 04/03/2014                             | 09:36:29 | 0.029 |
| 04/03/2014                             | 09:37:29 | 0.028 |
| 04/03/2014                             | 09:38:29 | 0.029 |
| 04/03/2014                             | 09:39:29 | 0.029 |
| 04/03/2014                             | 09:40:29 | 0.030 |
| 04/03/2014                             | 09:41:29 | 0.034 |
| 04/03/2014                             | 09:42:29 | 0.036 |
| 04/03/2014                             | 09:43:29 | 0.034 |
| 04/03/2014                             | 09:44:29 | 0.031 |
| 04/03/2014                             | 09:45:29 | 0.030 |
| 04/03/2014                             | 09:46:29 | 0.031 |
| 04/03/2014                             | 09:47:29 | 0.030 |
| 04/03/2014                             | 09:48:29 | 0.030 |
| 04/03/2014                             | 09:49:29 | 0.031 |
| 04/03/2014                             | 09:50:29 | 0.030 |
| 04/03/2014                             | 09:51:29 | 0.030 |
| 04/03/2014                             | 09:52:29 | 0.034 |
| 04/03/2014                             | 09:53:29 | 0.034 |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 09:54:29 | 0.038 |
| 04/03/2014                             | 09:55:29 | 0.031 |
| 04/03/2014                             | 09:56:29 | 0.030 |
| 04/03/2014                             | 09:57:29 | 0.029 |
| 04/03/2014                             | 09:58:29 | 0.029 |
| 04/03/2014                             | 09:59:29 | 0.031 |
| 04/03/2014                             | 10:00:29 | 0.031 |
| 04/03/2014                             | 10:01:29 | 0.030 |
| 04/03/2014                             | 10:02:29 | 0.030 |
| 04/03/2014                             | 10:03:29 | 0.031 |
| 04/03/2014                             | 10:04:29 | 0.031 |
| 04/03/2014                             | 10:05:29 | 0.031 |
| 04/03/2014                             | 10:06:29 | 0.037 |
| 04/03/2014                             | 10:07:29 | 0.031 |
| 04/03/2014                             | 10:08:29 | 0.031 |
| 04/03/2014                             | 10:09:29 | 0.031 |
| 04/03/2014                             | 10:10:29 | 0.040 |
| 04/03/2014                             | 10:11:29 | 0.047 |
| 04/03/2014                             | 10:12:29 | 0.035 |
| 04/03/2014                             | 10:13:29 | 0.047 |
| 04/03/2014                             | 10:14:29 | 0.037 |
| 04/03/2014                             | 10:15:29 | 0.030 |
| 04/03/2014                             | 10:16:29 | 0.031 |
| 04/03/2014                             | 10:17:29 | 0.065 |
| 04/03/2014                             | 10:18:29 | 0.032 |
| 04/03/2014                             | 10:19:29 | 0.032 |
| 04/03/2014                             | 10:20:29 | 0.031 |
| 04/03/2014                             | 10:21:29 | 0.032 |
| 04/03/2014                             | 10:22:29 | 0.032 |
| 04/03/2014                             | 10:23:29 | 0.031 |
| 04/03/2014                             | 10:24:29 | 0.031 |
| 04/03/2014                             | 10:25:29 | 0.031 |
| 04/03/2014                             | 10:26:29 | 0.031 |
| 04/03/2014                             | 10:27:29 | 0.031 |
| 04/03/2014                             | 10:28:29 | 0.032 |
| 04/03/2014                             | 10:29:29 | 0.031 |
| 04/03/2014                             | 10:30:29 | 0.031 |
| 04/03/2014                             | 10:31:29 | 0.031 |
| 04/03/2014                             | 10:32:29 | 0.031 |
| 04/03/2014                             | 10:33:29 | 0.031 |
| 04/03/2014                             | 10:34:29 | 0.035 |
| 04/03/2014                             | 10:35:29 | 0.032 |
| 04/03/2014                             | 10:36:29 | 0.033 |
| 04/03/2014                             | 10:37:29 | 0.034 |
| 04/03/2014                             | 10:38:29 | 0.034 |
| 04/03/2014                             | 10:39:29 | 0.035 |
| 04/03/2014                             | 10:40:29 | 0.034 |
| 04/03/2014                             | 10:41:29 | 0.035 |
| 04/03/2014                             | 10:42:29 | 0.034 |
| 04/03/2014                             | 10:43:29 | 0.035 |
| 04/03/2014                             | 10:44:29 | 0.042 |
| 04/03/2014                             | 10:45:29 | 0.036 |
| 04/03/2014                             | 10:46:29 | 0.035 |
| 04/03/2014                             | 10:47:29 | 0.034 |
| 04/03/2014                             | 10:48:29 | 0.036 |
| 04/03/2014                             | 10:49:29 | 0.037 |
| 04/03/2014                             | 10:50:29 | 0.034 |
| 04/03/2014                             | 10:51:29 | 0.033 |
| 04/03/2014                             | 10:52:29 | 0.034 |
| 04/03/2014                             | 10:53:29 | 0.033 |
| 04/03/2014                             | 10:54:29 | 0.034 |
| 04/03/2014                             | 10:55:29 | 0.034 |
| 04/03/2014                             | 10:56:29 | 0.034 |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 10:57:29 | 0.034 |
| 04/03/2014                             | 10:58:29 | 0.033 |
| 04/03/2014                             | 10:59:29 | 0.032 |
| 04/03/2014                             | 11:00:29 | 0.032 |
| 04/03/2014                             | 11:01:29 | 0.036 |
| 04/03/2014                             | 11:02:29 | 0.032 |
| 04/03/2014                             | 11:03:29 | 0.033 |
| 04/03/2014                             | 11:04:29 | 0.032 |
| 04/03/2014                             | 11:05:29 | 0.032 |
| 04/03/2014                             | 11:06:29 | 0.032 |
| 04/03/2014                             | 11:07:29 | 0.032 |
| 04/03/2014                             | 11:08:29 | 0.034 |
| 04/03/2014                             | 11:09:29 | 0.032 |
| 04/03/2014                             | 11:10:29 | 0.033 |
| 04/03/2014                             | 11:11:29 | 0.033 |
| 04/03/2014                             | 11:12:29 | 0.032 |
| 04/03/2014                             | 11:13:29 | 0.033 |
| 04/03/2014                             | 11:14:29 | 0.032 |
| 04/03/2014                             | 11:15:29 | 0.035 |
| 04/03/2014                             | 11:16:29 | 0.036 |
| 04/03/2014                             | 11:17:29 | 0.033 |
| 04/03/2014                             | 11:18:29 | 0.032 |
| 04/03/2014                             | 11:19:29 | 0.034 |
| 04/03/2014                             | 11:20:29 | 0.033 |
| 04/03/2014                             | 11:21:29 | 0.035 |
| 04/03/2014                             | 11:22:29 | 0.033 |
| 04/03/2014                             | 11:23:29 | 0.032 |
| 04/03/2014                             | 11:24:29 | 0.032 |
| 04/03/2014                             | 11:25:29 | 0.031 |
| 04/03/2014                             | 11:26:29 | 0.032 |
| 04/03/2014                             | 11:27:29 | 0.032 |
| 04/03/2014                             | 11:28:29 | 0.033 |
| 04/03/2014                             | 11:29:29 | 0.033 |
| 04/03/2014                             | 11:30:29 | 0.034 |
| 04/03/2014                             | 11:31:29 | 0.033 |
| 04/03/2014                             | 11:32:29 | 0.034 |
| 04/03/2014                             | 11:33:29 | 0.036 |
| 04/03/2014                             | 11:34:29 | 0.036 |
| 04/03/2014                             | 11:35:29 | 0.035 |
| 04/03/2014                             | 11:36:29 | 0.036 |
| 04/03/2014                             | 11:37:29 | 0.036 |
| 04/03/2014                             | 11:38:29 | 0.035 |
| 04/03/2014                             | 11:39:29 | 0.034 |
| 04/03/2014                             | 11:40:29 | 0.032 |
| 04/03/2014                             | 11:41:29 | 0.032 |
| 04/03/2014                             | 11:42:29 | 0.032 |
| 04/03/2014                             | 11:43:29 | 0.031 |
| 04/03/2014                             | 11:44:29 | 0.035 |
| 04/03/2014                             | 11:45:29 | 0.034 |
| 04/03/2014                             | 11:46:29 | 0.034 |
| 04/03/2014                             | 11:47:29 | 0.033 |
| 04/03/2014                             | 11:48:29 | 0.033 |
| 04/03/2014                             | 11:49:29 | 0.032 |
| 04/03/2014                             | 11:50:29 | 0.033 |
| 04/03/2014                             | 11:51:29 | 0.034 |
| 04/03/2014                             | 11:52:29 | 0.034 |
| 04/03/2014                             | 11:53:29 | 0.033 |
| 04/03/2014                             | 11:54:29 | 0.033 |
| 04/03/2014                             | 11:55:29 | 0.033 |
| 04/03/2014                             | 11:56:29 | 0.031 |
| 04/03/2014                             | 11:57:29 | 0.031 |
| 04/03/2014                             | 11:58:29 | 0.031 |
| 04/03/2014                             | 11:59:29 | 0.031 |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 12:00:29 | 0.030 |
| 04/03/2014                             | 12:01:29 | 0.032 |
| 04/03/2014                             | 12:02:29 | 0.033 |
| 04/03/2014                             | 12:03:29 | 0.032 |
| 04/03/2014                             | 12:04:29 | 0.033 |
| 04/03/2014                             | 12:05:29 | 0.034 |
| 04/03/2014                             | 12:06:29 | 0.034 |
| 04/03/2014                             | 12:07:29 | 0.035 |
| 04/03/2014                             | 12:08:29 | 0.036 |
| 04/03/2014                             | 12:09:29 | 0.034 |
| 04/03/2014                             | 12:10:29 | 0.034 |
| 04/03/2014                             | 12:11:29 | 0.034 |
| 04/03/2014                             | 12:12:29 | 0.035 |
| 04/03/2014                             | 12:13:29 | 0.036 |
| 04/03/2014                             | 12:14:29 | 0.035 |
| 04/03/2014                             | 12:15:29 | 0.036 |
| 04/03/2014                             | 12:16:29 | 0.037 |
| 04/03/2014                             | 12:17:29 | 0.036 |
| 04/03/2014                             | 12:18:29 | 0.036 |
| 04/03/2014                             | 12:19:29 | 0.037 |
| 04/03/2014                             | 12:20:29 | 0.037 |
| 04/03/2014                             | 12:21:29 | 0.036 |
| 04/03/2014                             | 12:22:29 | 0.036 |
| 04/03/2014                             | 12:23:29 | 0.035 |
| 04/03/2014                             | 12:24:29 | 0.038 |
| 04/03/2014                             | 12:25:29 | 0.045 |
| 04/03/2014                             | 12:26:29 | 0.035 |
| 04/03/2014                             | 12:27:29 | 0.047 |
| 04/03/2014                             | 12:28:29 | 0.035 |
| 04/03/2014                             | 12:29:29 | 0.034 |
| 04/03/2014                             | 12:30:29 | 0.034 |
| 04/03/2014                             | 12:31:29 | 0.035 |
| 04/03/2014                             | 12:32:29 | 0.034 |
| 04/03/2014                             | 12:33:29 | 0.035 |
| 04/03/2014                             | 12:34:29 | 0.035 |
| 04/03/2014                             | 12:35:29 | 0.043 |
| 04/03/2014                             | 12:36:29 | 0.058 |
| 04/03/2014                             | 12:37:29 | 0.034 |
| 04/03/2014                             | 12:38:29 | 0.033 |
| 04/03/2014                             | 12:39:29 | 0.032 |
| 04/03/2014                             | 12:40:29 | 0.032 |
| 04/03/2014                             | 12:41:29 | 0.034 |
| 04/03/2014                             | 12:42:29 | 0.034 |
| 04/03/2014                             | 12:43:29 | 0.033 |
| 04/03/2014                             | 12:44:29 | 0.032 |
| 04/03/2014                             | 12:45:29 | 0.031 |
| 04/03/2014                             | 12:46:29 | 0.036 |
| 04/03/2014                             | 12:47:29 | 0.039 |
| 04/03/2014                             | 12:48:29 | 0.032 |
| 04/03/2014                             | 12:49:29 | 0.032 |
| 04/03/2014                             | 12:50:29 | 0.032 |
| 04/03/2014                             | 12:51:29 | 0.030 |
| 04/03/2014                             | 12:52:29 | 0.029 |
| 04/03/2014                             | 12:53:29 | 0.031 |
| 04/03/2014                             | 12:54:29 | 0.030 |
| 04/03/2014                             | 12:55:29 | 0.030 |
| 04/03/2014                             | 12:56:29 | 0.030 |
| 04/03/2014                             | 12:57:29 | 0.030 |
| 04/03/2014                             | 12:58:29 | 0.031 |
| 04/03/2014                             | 12:59:29 | 0.033 |
| 04/03/2014                             | 13:00:29 | 0.034 |
| 04/03/2014                             | 13:01:29 | 0.037 |
| 04/03/2014                             | 13:02:29 | 0.042 |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |        |
|----------------------------------------|----------|--------|
| 04/03/2014                             | 13:03:29 | 0.033  |
| 04/03/2014                             | 13:04:29 | 0.017  |
| 04/03/2014                             | 13:05:29 | -0.023 |
| 04/03/2014                             | 13:06:29 | -0.024 |
| 04/03/2014                             | 13:07:29 | -0.014 |
| 04/03/2014                             | 13:08:29 | -0.022 |
| 04/03/2014                             | 13:09:29 | -0.021 |
| 04/03/2014                             | 13:10:29 | -0.023 |
| 04/03/2014                             | 13:11:29 | -0.023 |
| 04/03/2014                             | 13:12:29 | -0.024 |
| 04/03/2014                             | 13:13:29 | -0.023 |
| 04/03/2014                             | 13:14:29 | -0.024 |
| 04/03/2014                             | 13:15:29 | -0.022 |
| 04/03/2014                             | 13:16:29 | -0.022 |
| 04/03/2014                             | 13:17:29 | -0.023 |
| 04/03/2014                             | 13:18:29 | -0.024 |
| 04/03/2014                             | 13:19:29 | -0.024 |
| 04/03/2014                             | 13:20:29 | -0.024 |
| 04/03/2014                             | 13:21:29 | -0.024 |
| 04/03/2014                             | 13:22:29 | -0.025 |
| 04/03/2014                             | 13:23:29 | -0.025 |
| 04/03/2014                             | 13:24:29 | -0.022 |
| 04/03/2014                             | 13:25:29 | -0.024 |
| 04/03/2014                             | 13:26:29 | -0.026 |
| 04/03/2014                             | 13:27:29 | -0.028 |
| 04/03/2014                             | 13:28:29 | -0.027 |
| 04/03/2014                             | 13:29:29 | -0.028 |
| 04/03/2014                             | 13:30:29 | 0.025  |
| 04/03/2014                             | 13:31:29 | 0.035  |
| 04/03/2014                             | 13:32:29 | 0.036  |
| 04/03/2014                             | 13:33:29 | 0.035  |
| 04/03/2014                             | 13:34:29 | 0.035  |
| 04/03/2014                             | 13:35:29 | 0.035  |
| 04/03/2014                             | 13:36:29 | 0.036  |
| 04/03/2014                             | 13:37:29 | 0.035  |
| 04/03/2014                             | 13:38:29 | 0.035  |
| 04/03/2014                             | 13:39:29 | 0.037  |
| 04/03/2014                             | 13:40:29 | 0.036  |
| 04/03/2014                             | 13:41:29 | 0.035  |
| 04/03/2014                             | 13:42:29 | 0.035  |
| 04/03/2014                             | 13:43:29 | 0.036  |
| 04/03/2014                             | 13:44:29 | 0.037  |
| 04/03/2014                             | 13:45:29 | 0.036  |
| 04/03/2014                             | 13:46:29 | 0.036  |
| 04/03/2014                             | 13:47:29 | 0.036  |
| 04/03/2014                             | 13:48:29 | 0.037  |
| 04/03/2014                             | 13:49:29 | 0.036  |
| 04/03/2014                             | 13:50:29 | 0.036  |
| 04/03/2014                             | 13:51:29 | 0.036  |
| 04/03/2014                             | 13:52:29 | 0.035  |
| 04/03/2014                             | 13:53:29 | 0.036  |
| 04/03/2014                             | 13:54:29 | 0.036  |
| 04/03/2014                             | 13:55:29 | 0.037  |
| 04/03/2014                             | 13:56:29 | 0.037  |
| 04/03/2014                             | 13:57:29 | 0.037  |
| 04/03/2014                             | 13:58:29 | 0.037  |
| 04/03/2014                             | 13:59:29 | 0.039  |
| 04/03/2014                             | 14:00:29 | 0.039  |
| 04/03/2014                             | 14:01:29 | 0.041  |
| 04/03/2014                             | 14:02:29 | 0.038  |
| 04/03/2014                             | 14:03:29 | 0.040  |
| 04/03/2014                             | 14:04:29 | 0.040  |
| 04/03/2014                             | 14:05:29 | 0.037  |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 14:06:29 | 0.040 |
| 04/03/2014                             | 14:07:29 | 0.038 |
| 04/03/2014                             | 14:08:29 | 0.038 |
| 04/03/2014                             | 14:09:29 | 0.039 |
| 04/03/2014                             | 14:10:29 | 0.040 |
| 04/03/2014                             | 14:11:29 | 0.039 |
| 04/03/2014                             | 14:12:29 | 0.034 |
| 04/03/2014                             | 14:13:29 | 0.033 |
| 04/03/2014                             | 14:14:29 | 0.032 |
| 04/03/2014                             | 14:15:29 | 0.031 |
| 04/03/2014                             | 14:16:29 | 0.032 |
| 04/03/2014                             | 14:17:29 | 0.033 |
| 04/03/2014                             | 14:18:29 | 0.035 |
| 04/03/2014                             | 14:19:29 | 0.031 |
| 04/03/2014                             | 14:20:29 | 0.033 |
| 04/03/2014                             | 14:21:29 | 0.033 |
| 04/03/2014                             | 14:22:29 | 0.034 |
| 04/03/2014                             | 14:23:29 | 0.032 |
| 04/03/2014                             | 14:24:29 | 0.046 |
| 04/03/2014                             | 14:25:29 | 0.033 |
| 04/03/2014                             | 14:26:29 | 0.036 |
| 04/03/2014                             | 14:27:29 | 0.033 |
| 04/03/2014                             | 14:28:29 | 0.033 |
| 04/03/2014                             | 14:29:29 | 0.032 |
| 04/03/2014                             | 14:30:29 | 0.035 |
| 04/03/2014                             | 14:31:29 | 0.041 |
| 04/03/2014                             | 14:32:29 | 0.035 |
| 04/03/2014                             | 14:33:29 | 0.035 |
| 04/03/2014                             | 14:34:29 | 0.036 |
| 04/03/2014                             | 14:35:29 | 0.038 |
| 04/03/2014                             | 14:36:29 | 0.037 |
| 04/03/2014                             | 14:37:29 | 0.038 |
| 04/03/2014                             | 14:38:29 | 0.037 |
| 04/03/2014                             | 14:39:29 | 0.037 |
| 04/03/2014                             | 14:40:29 | 0.037 |
| 04/03/2014                             | 14:41:29 | 0.039 |
| 04/03/2014                             | 14:42:29 | 0.038 |
| 04/03/2014                             | 14:43:29 | 0.037 |
| 04/03/2014                             | 14:44:29 | 0.036 |
| 04/03/2014                             | 14:45:29 | 0.036 |
| 04/03/2014                             | 14:46:29 | 0.039 |
| 04/03/2014                             | 14:47:29 | 0.036 |
| 04/03/2014                             | 14:48:29 | 0.036 |
| 04/03/2014                             | 14:49:29 | 0.034 |
| 04/03/2014                             | 14:50:29 | 0.033 |
| 04/03/2014                             | 14:51:29 | 0.034 |
| 04/03/2014                             | 14:52:29 | 0.033 |
| 04/03/2014                             | 14:53:29 | 0.036 |
| 04/03/2014                             | 14:54:29 | 0.037 |
| 04/03/2014                             | 14:55:29 | 0.051 |
| 04/03/2014                             | 14:56:29 | 0.037 |
| 04/03/2014                             | 14:57:29 | 0.155 |
| 04/03/2014                             | 14:58:29 | 0.039 |
| 04/03/2014                             | 14:59:29 | 0.036 |
| 04/03/2014                             | 15:00:29 | 0.038 |
| 04/03/2014                             | 15:01:29 | 0.036 |
| 04/03/2014                             | 15:02:29 | 0.033 |
| 04/03/2014                             | 15:03:29 | 0.031 |
| 04/03/2014                             | 15:04:29 | 0.033 |
| 04/03/2014                             | 15:05:29 | 0.033 |
| 04/03/2014                             | 15:06:29 | 0.034 |
| 04/03/2014                             | 15:07:29 | 0.031 |
| 04/03/2014                             | 15:08:29 | 0.031 |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |        |
|----------------------------------------|----------|--------|
| 04/03/2014                             | 15:09:29 | 0.031  |
| 04/03/2014                             | 15:10:29 | 0.031  |
| 04/03/2014                             | 15:11:29 | 0.032  |
| 04/03/2014                             | 15:12:29 | 0.032  |
| 04/03/2014                             | 15:13:29 | 0.032  |
| 04/03/2014                             | 15:14:29 | 0.034  |
| 04/03/2014                             | 15:15:29 | 0.032  |
| 04/03/2014                             | 15:16:29 | 0.032  |
| 04/03/2014                             | 15:17:29 | 0.032  |
| 04/03/2014                             | 15:18:29 | 0.032  |
| 04/03/2014                             | 15:19:29 | 0.034  |
| 04/03/2014                             | 15:20:29 | 0.039  |
| 04/03/2014                             | 15:21:29 | 0.032  |
| 04/03/2014                             | 15:22:29 | 0.032  |
| 04/03/2014                             | 15:23:29 | 0.033  |
| 04/03/2014                             | 15:24:29 | 0.033  |
| 04/03/2014                             | 15:25:29 | 0.030  |
| 04/03/2014                             | 15:26:29 | -0.015 |
| 04/03/2014                             | 15:27:29 | -0.026 |
| 04/03/2014                             | 15:28:29 | -0.026 |
| 04/03/2014                             | 15:29:29 | -0.027 |
| 04/03/2014                             | 15:30:29 | -0.025 |
| 04/03/2014                             | 15:31:29 | -0.027 |
| 04/03/2014                             | 15:32:29 | -0.028 |
| 04/03/2014                             | 15:33:29 | -0.019 |
| 04/03/2014                             | 15:34:29 | -0.018 |
| 04/03/2014                             | 15:35:29 | -0.017 |
| 04/03/2014                             | 15:36:29 | -0.015 |
| 04/03/2014                             | 15:37:29 | -0.015 |
| 04/03/2014                             | 15:38:29 | -0.013 |
| 04/03/2014                             | 15:39:29 | -0.009 |
| 04/03/2014                             | 15:40:29 | 0.000  |
| 04/03/2014                             | 15:41:29 | 0.005  |
| 04/03/2014                             | 15:42:29 | -0.004 |
| 04/03/2014                             | 15:43:29 | -0.001 |
| 04/03/2014                             | 15:44:29 | -0.001 |
| 04/03/2014                             | 15:45:29 | 0.001  |
| 04/03/2014                             | 15:46:29 | 0.007  |
| 04/03/2014                             | 15:47:29 | 0.001  |
| 04/03/2014                             | 15:48:29 | 0.014  |
| 04/03/2014                             | 15:49:29 | 0.015  |
| 04/03/2014                             | 15:50:29 | 0.003  |
| 04/03/2014                             | 15:51:29 | 0.005  |
| 04/03/2014                             | 15:52:29 | 0.005  |
| 04/03/2014                             | 15:53:29 | 0.018  |
| 04/03/2014                             | 15:54:29 | 0.004  |
| 04/03/2014                             | 15:55:29 | 0.000  |
| 04/03/2014                             | 15:56:29 | 0.000  |
| 04/03/2014                             | 15:57:29 | 0.007  |
| 04/03/2014                             | 15:58:29 | 0.049  |
| 04/03/2014                             | 15:59:29 | 0.059  |
| 04/03/2014                             | 16:00:29 | 0.058  |
| 04/03/2014                             | 16:01:29 | 0.056  |
| 04/03/2014                             | 16:02:29 | 0.053  |
| 04/03/2014                             | 16:03:29 | 0.054  |
| 04/03/2014                             | 16:04:29 | 0.054  |
| 04/03/2014                             | 16:05:29 | 0.059  |
| 04/03/2014                             | 16:06:29 | 0.056  |
| 04/03/2014                             | 16:07:29 | 0.073  |
| 04/03/2014                             | 16:08:29 | 0.058  |
| 04/03/2014                             | 16:09:29 | 0.053  |
| 04/03/2014                             | 16:10:29 | 0.055  |
| 04/03/2014                             | 16:11:29 | 0.058  |

| DT 17784 040314 UW @BH 7 9 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/03/2014                             | 16:12:29 | 0.052 |
| 04/03/2014                             | 16:13:29 | 0.051 |
| 04/03/2014                             | 16:14:29 | 0.058 |
| 04/03/2014                             | 16:15:29 | 0.054 |
| 04/03/2014                             | 16:16:29 | 0.059 |
| 04/03/2014                             | 16:17:29 | 0.069 |
| 04/03/2014                             | 16:18:29 | 0.055 |
| 04/03/2014                             | 16:19:29 | 0.053 |
| 04/03/2014                             | 16:20:29 | 0.065 |
| 04/03/2014                             | 16:21:29 | 0.056 |
| 04/03/2014                             | 16:22:29 | 0.063 |
| 04/03/2014                             | 16:23:29 | 0.055 |
| 04/03/2014                             | 16:24:29 | 0.058 |
| 04/03/2014                             | 16:25:29 | 0.059 |
| 04/03/2014                             | 16:26:29 | 0.052 |
| 04/03/2014                             | 16:27:29 | 0.053 |
| 04/03/2014                             | 16:28:29 | 0.058 |
| 04/03/2014                             | 16:29:29 | 0.065 |
| 04/03/2014                             | 16:30:29 | 0.058 |
| 04/03/2014                             | 16:31:29 | 0.058 |
| 04/03/2014                             | 16:32:29 | 0.069 |
| 04/03/2014                             | 16:33:29 | 0.057 |
| 04/03/2014                             | 16:34:29 | 0.062 |
| 04/03/2014                             | 16:35:29 | 0.057 |
| 04/03/2014                             | 16:36:29 | 0.059 |
| 04/03/2014                             | 16:37:29 | 0.056 |
| 04/03/2014                             | 16:38:29 | 0.049 |
| 04/03/2014                             | 16:39:29 | 0.048 |
| 04/03/2014                             | 16:40:29 | 0.047 |
| 04/03/2014                             | 16:41:29 | 0.046 |
| 04/03/2014                             | 16:42:29 | 0.044 |
| 04/03/2014                             | 16:43:29 | 0.044 |
| 04/03/2014                             | 16:44:29 | 0.043 |
| 04/03/2014                             | 16:45:29 | 0.042 |
| 04/03/2014                             | 16:46:29 | 0.044 |
| 04/03/2014                             | 16:47:29 | 0.046 |
| 04/03/2014                             | 16:48:29 | 0.049 |
| 04/03/2014                             | 16:49:29 | 0.049 |
| 04/03/2014                             | 16:50:29 | 0.050 |
| 04/03/2014                             | 16:51:29 | 0.050 |
| 04/03/2014                             | 16:52:29 | 0.051 |
| 04/03/2014                             | 16:53:29 | 0.050 |
| 04/03/2014                             | 16:54:29 | 0.052 |
| 04/03/2014                             | 16:55:29 | 0.051 |
| 04/03/2014                             | 16:56:29 | 0.054 |
| 04/03/2014                             | 16:57:29 | 0.055 |
| 04/03/2014                             | 16:58:29 | 0.067 |
| 04/03/2014                             | 16:59:29 | 0.063 |
| 04/03/2014                             | 17:00:29 | 0.071 |
| 04/03/2014                             | 17:01:29 | 0.057 |
| 04/03/2014                             | 17:02:29 | 0.055 |
| 04/03/2014                             | 17:03:29 | 0.055 |
| 04/03/2014                             | 17:04:29 | 0.058 |
| 04/03/2014                             | 17:05:29 | 0.064 |
| 04/03/2014                             | 17:06:29 | 0.081 |
| 04/03/2014                             | 17:07:29 | 0.103 |
| 04/03/2014                             | 17:08:29 | 0.080 |
| 04/03/2014                             | 17:09:29 | 0.074 |
| 04/03/2014                             | 17:10:29 | 0.084 |
| 04/03/2014                             | 17:11:29 | 0.072 |

DT R11550 040314 @Bholes 7 9 11 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/03/2014  
Start Time: 09:13:15  
Duration (dd:hh:mm:ss): 0:08:00:00  
Log Interval (mm:ss): 15:00  
Number of points: 32  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.032  
Minimum: 0.023  
Time of Minimum: 15:13:15  
Date of Minimum: 04/03/2014  
Maximum: 0.054  
Time of Maximum: 13:28:15  
Date of Maximum: 04/03/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/03/2014 | 09:28:15 | 0.027             |
| 04/03/2014 | 09:43:15 | 0.024             |
| 04/03/2014 | 09:58:15 | 0.025             |
| 04/03/2014 | 10:13:15 | 0.025             |
| 04/03/2014 | 10:28:15 | 0.027             |
| 04/03/2014 | 10:43:15 | 0.029             |
| 04/03/2014 | 10:58:15 | 0.031             |
| 04/03/2014 | 11:13:15 | 0.032             |
| 04/03/2014 | 11:28:15 | 0.027             |
| 04/03/2014 | 11:43:15 | 0.028             |
| 04/03/2014 | 11:58:15 | 0.026             |
| 04/03/2014 | 12:13:15 | 0.027             |
| 04/03/2014 | 12:28:15 | 0.029             |
| 04/03/2014 | 12:43:15 | 0.032             |
| 04/03/2014 | 12:58:15 | 0.043             |
| 04/03/2014 | 13:13:15 | 0.043             |
| 04/03/2014 | 13:28:15 | 0.054             |
| 04/03/2014 | 13:43:15 | 0.038             |
| 04/03/2014 | 13:58:15 | 0.027             |
| 04/03/2014 | 14:13:15 | 0.026             |
| 04/03/2014 | 14:28:15 | 0.024             |
| 04/03/2014 | 14:43:15 | 0.026             |
| 04/03/2014 | 14:58:15 | 0.026             |
| 04/03/2014 | 15:13:15 | 0.023             |
| 04/03/2014 | 15:28:15 | 0.025             |
| 04/03/2014 | 15:43:15 | 0.033             |
| 04/03/2014 | 15:58:15 | 0.045             |
| 04/03/2014 | 16:13:15 | 0.043             |
| 04/03/2014 | 16:28:15 | 0.040             |
| 04/03/2014 | 16:43:15 | 0.041             |
| 04/03/2014 | 16:58:15 | 0.043             |
| 04/03/2014 | 17:13:15 | 0.050             |

DT 17784 040414 UW @BH 6 7 11 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/04/2014  
Start Time: 08:32:06  
Duration (dd:hh:mm:ss): 0:04:27:00  
Log Interval (mm:ss): 01:00  
Number of points: 267  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.028  
Minimum: -0.026  
Time of Minimum: 08:37:06  
Date of Minimum: 04/04/2014  
Maximum: 0.120  
Time of Maximum: 12:51:06  
Date of Maximum: 04/04/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/04/2014 | 08:33:06 | -0.017            |
| 04/04/2014 | 08:34:06 | -0.023            |
| 04/04/2014 | 08:35:06 | -0.025            |
| 04/04/2014 | 08:36:06 | -0.023            |
| 04/04/2014 | 08:37:06 | -0.026            |
| 04/04/2014 | 08:38:06 | -0.025            |
| 04/04/2014 | 08:39:06 | -0.024            |
| 04/04/2014 | 08:40:06 | -0.025            |
| 04/04/2014 | 08:41:06 | -0.025            |
| 04/04/2014 | 08:42:06 | -0.025            |
| 04/04/2014 | 08:43:06 | -0.025            |
| 04/04/2014 | 08:44:06 | -0.018            |
| 04/04/2014 | 08:45:06 | -0.026            |
| 04/04/2014 | 08:46:06 | -0.020            |
| 04/04/2014 | 08:47:06 | -0.025            |
| 04/04/2014 | 08:48:06 | -0.025            |
| 04/04/2014 | 08:49:06 | -0.025            |
| 04/04/2014 | 08:50:06 | -0.022            |
| 04/04/2014 | 08:51:06 | -0.023            |
| 04/04/2014 | 08:52:06 | -0.024            |
| 04/04/2014 | 08:53:06 | 0.000             |
| 04/04/2014 | 08:54:06 | 0.031             |
| 04/04/2014 | 08:55:06 | 0.045             |
| 04/04/2014 | 08:56:06 | 0.052             |
| 04/04/2014 | 08:57:06 | 0.033             |
| 04/04/2014 | 08:58:06 | 0.050             |
| 04/04/2014 | 08:59:06 | 0.040             |
| 04/04/2014 | 09:00:06 | 0.033             |
| 04/04/2014 | 09:01:06 | 0.033             |
| 04/04/2014 | 09:02:06 | 0.034             |
| 04/04/2014 | 09:03:06 | 0.035             |
| 04/04/2014 | 09:04:06 | 0.037             |
| 04/04/2014 | 09:05:06 | 0.033             |
| 04/04/2014 | 09:06:06 | 0.035             |

|            | DT 17784 | 040414 | UW @BH 6 7 11 | DRILLING |
|------------|----------|--------|---------------|----------|
| 04/04/2014 | 09:07:06 | 0.034  |               |          |
| 04/04/2014 | 09:08:06 | 0.036  |               |          |
| 04/04/2014 | 09:09:06 | 0.035  |               |          |
| 04/04/2014 | 09:10:06 | 0.035  |               |          |
| 04/04/2014 | 09:11:06 | 0.034  |               |          |
| 04/04/2014 | 09:12:06 | 0.041  |               |          |
| 04/04/2014 | 09:13:06 | 0.048  |               |          |
| 04/04/2014 | 09:14:06 | 0.036  |               |          |
| 04/04/2014 | 09:15:06 | 0.049  |               |          |
| 04/04/2014 | 09:16:06 | 0.040  |               |          |
| 04/04/2014 | 09:17:06 | 0.036  |               |          |
| 04/04/2014 | 09:18:06 | 0.038  |               |          |
| 04/04/2014 | 09:19:06 | 0.037  |               |          |
| 04/04/2014 | 09:20:06 | 0.035  |               |          |
| 04/04/2014 | 09:21:06 | 0.047  |               |          |
| 04/04/2014 | 09:22:06 | 0.034  |               |          |
| 04/04/2014 | 09:23:06 | 0.047  |               |          |
| 04/04/2014 | 09:24:06 | 0.046  |               |          |
| 04/04/2014 | 09:25:06 | 0.035  |               |          |
| 04/04/2014 | 09:26:06 | 0.034  |               |          |
| 04/04/2014 | 09:27:06 | 0.034  |               |          |
| 04/04/2014 | 09:28:06 | 0.044  |               |          |
| 04/04/2014 | 09:29:06 | 0.034  |               |          |
| 04/04/2014 | 09:30:06 | 0.033  |               |          |
| 04/04/2014 | 09:31:06 | 0.045  |               |          |
| 04/04/2014 | 09:32:06 | 0.036  |               |          |
| 04/04/2014 | 09:33:06 | 0.036  |               |          |
| 04/04/2014 | 09:34:06 | 0.036  |               |          |
| 04/04/2014 | 09:35:06 | 0.034  |               |          |
| 04/04/2014 | 09:36:06 | 0.037  |               |          |
| 04/04/2014 | 09:37:06 | 0.034  |               |          |
| 04/04/2014 | 09:38:06 | 0.038  |               |          |
| 04/04/2014 | 09:39:06 | 0.043  |               |          |
| 04/04/2014 | 09:40:06 | 0.041  |               |          |
| 04/04/2014 | 09:41:06 | 0.035  |               |          |
| 04/04/2014 | 09:42:06 | 0.036  |               |          |
| 04/04/2014 | 09:43:06 | 0.032  |               |          |
| 04/04/2014 | 09:44:06 | 0.032  |               |          |
| 04/04/2014 | 09:45:06 | 0.034  |               |          |
| 04/04/2014 | 09:46:06 | 0.034  |               |          |
| 04/04/2014 | 09:47:06 | 0.033  |               |          |
| 04/04/2014 | 09:48:06 | 0.034  |               |          |
| 04/04/2014 | 09:49:06 | 0.035  |               |          |
| 04/04/2014 | 09:50:06 | 0.035  |               |          |
| 04/04/2014 | 09:51:06 | 0.034  |               |          |
| 04/04/2014 | 09:52:06 | 0.035  |               |          |
| 04/04/2014 | 09:53:06 | 0.036  |               |          |
| 04/04/2014 | 09:54:06 | 0.034  |               |          |
| 04/04/2014 | 09:55:06 | 0.036  |               |          |
| 04/04/2014 | 09:56:06 | 0.036  |               |          |
| 04/04/2014 | 09:57:06 | 0.038  |               |          |
| 04/04/2014 | 09:58:06 | 0.035  |               |          |
| 04/04/2014 | 09:59:06 | 0.042  |               |          |
| 04/04/2014 | 10:00:06 | 0.038  |               |          |
| 04/04/2014 | 10:01:06 | 0.042  |               |          |
| 04/04/2014 | 10:02:06 | 0.038  |               |          |
| 04/04/2014 | 10:03:06 | 0.034  |               |          |
| 04/04/2014 | 10:04:06 | 0.037  |               |          |
| 04/04/2014 | 10:05:06 | 0.038  |               |          |
| 04/04/2014 | 10:06:06 | 0.035  |               |          |
| 04/04/2014 | 10:07:06 | 0.033  |               |          |
| 04/04/2014 | 10:08:06 | 0.034  |               |          |
| 04/04/2014 | 10:09:06 | 0.033  |               |          |

| DT 17784 040414 UW @BH 6 7 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/04/2014                             | 10:10:06 | 0.032 |
| 04/04/2014                             | 10:11:06 | 0.033 |
| 04/04/2014                             | 10:12:06 | 0.039 |
| 04/04/2014                             | 10:13:06 | 0.037 |
| 04/04/2014                             | 10:14:06 | 0.038 |
| 04/04/2014                             | 10:15:06 | 0.041 |
| 04/04/2014                             | 10:16:06 | 0.057 |
| 04/04/2014                             | 10:17:06 | 0.037 |
| 04/04/2014                             | 10:18:06 | 0.034 |
| 04/04/2014                             | 10:19:06 | 0.033 |
| 04/04/2014                             | 10:20:06 | 0.032 |
| 04/04/2014                             | 10:21:06 | 0.033 |
| 04/04/2014                             | 10:22:06 | 0.029 |
| 04/04/2014                             | 10:23:06 | 0.028 |
| 04/04/2014                             | 10:24:06 | 0.028 |
| 04/04/2014                             | 10:25:06 | 0.029 |
| 04/04/2014                             | 10:26:06 | 0.033 |
| 04/04/2014                             | 10:27:06 | 0.034 |
| 04/04/2014                             | 10:28:06 | 0.038 |
| 04/04/2014                             | 10:29:06 | 0.030 |
| 04/04/2014                             | 10:30:06 | 0.036 |
| 04/04/2014                             | 10:31:06 | 0.027 |
| 04/04/2014                             | 10:32:06 | 0.025 |
| 04/04/2014                             | 10:33:06 | 0.024 |
| 04/04/2014                             | 10:34:06 | 0.026 |
| 04/04/2014                             | 10:35:06 | 0.029 |
| 04/04/2014                             | 10:36:06 | 0.031 |
| 04/04/2014                             | 10:37:06 | 0.030 |
| 04/04/2014                             | 10:38:06 | 0.034 |
| 04/04/2014                             | 10:39:06 | 0.026 |
| 04/04/2014                             | 10:40:06 | 0.028 |
| 04/04/2014                             | 10:41:06 | 0.030 |
| 04/04/2014                             | 10:42:06 | 0.033 |
| 04/04/2014                             | 10:43:06 | 0.026 |
| 04/04/2014                             | 10:44:06 | 0.028 |
| 04/04/2014                             | 10:45:06 | 0.026 |
| 04/04/2014                             | 10:46:06 | 0.027 |
| 04/04/2014                             | 10:47:06 | 0.029 |
| 04/04/2014                             | 10:48:06 | 0.031 |
| 04/04/2014                             | 10:49:06 | 0.034 |
| 04/04/2014                             | 10:50:06 | 0.031 |
| 04/04/2014                             | 10:51:06 | 0.036 |
| 04/04/2014                             | 10:52:06 | 0.046 |
| 04/04/2014                             | 10:53:06 | 0.037 |
| 04/04/2014                             | 10:54:06 | 0.037 |
| 04/04/2014                             | 10:55:06 | 0.039 |
| 04/04/2014                             | 10:56:06 | 0.035 |
| 04/04/2014                             | 10:57:06 | 0.032 |
| 04/04/2014                             | 10:58:06 | 0.038 |
| 04/04/2014                             | 10:59:06 | 0.032 |
| 04/04/2014                             | 11:00:06 | 0.030 |
| 04/04/2014                             | 11:01:06 | 0.030 |
| 04/04/2014                             | 11:02:06 | 0.024 |
| 04/04/2014                             | 11:03:06 | 0.025 |
| 04/04/2014                             | 11:04:06 | 0.028 |
| 04/04/2014                             | 11:05:06 | 0.030 |
| 04/04/2014                             | 11:06:06 | 0.031 |
| 04/04/2014                             | 11:07:06 | 0.031 |
| 04/04/2014                             | 11:08:06 | 0.029 |
| 04/04/2014                             | 11:09:06 | 0.029 |
| 04/04/2014                             | 11:10:06 | 0.032 |
| 04/04/2014                             | 11:11:06 | 0.035 |
| 04/04/2014                             | 11:12:06 | 0.030 |

| DT 17784 040414 UW @BH 6 7 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/04/2014                             | 11:13:06 | 0.030 |
| 04/04/2014                             | 11:14:06 | 0.028 |
| 04/04/2014                             | 11:15:06 | 0.026 |
| 04/04/2014                             | 11:16:06 | 0.029 |
| 04/04/2014                             | 11:17:06 | 0.034 |
| 04/04/2014                             | 11:18:06 | 0.025 |
| 04/04/2014                             | 11:19:06 | 0.025 |
| 04/04/2014                             | 11:20:06 | 0.026 |
| 04/04/2014                             | 11:21:06 | 0.025 |
| 04/04/2014                             | 11:22:06 | 0.026 |
| 04/04/2014                             | 11:23:06 | 0.024 |
| 04/04/2014                             | 11:24:06 | 0.026 |
| 04/04/2014                             | 11:25:06 | 0.027 |
| 04/04/2014                             | 11:26:06 | 0.026 |
| 04/04/2014                             | 11:27:06 | 0.026 |
| 04/04/2014                             | 11:28:06 | 0.028 |
| 04/04/2014                             | 11:29:06 | 0.027 |
| 04/04/2014                             | 11:30:06 | 0.025 |
| 04/04/2014                             | 11:31:06 | 0.026 |
| 04/04/2014                             | 11:32:06 | 0.027 |
| 04/04/2014                             | 11:33:06 | 0.025 |
| 04/04/2014                             | 11:34:06 | 0.031 |
| 04/04/2014                             | 11:35:06 | 0.030 |
| 04/04/2014                             | 11:36:06 | 0.026 |
| 04/04/2014                             | 11:37:06 | 0.037 |
| 04/04/2014                             | 11:38:06 | 0.028 |
| 04/04/2014                             | 11:39:06 | 0.028 |
| 04/04/2014                             | 11:40:06 | 0.030 |
| 04/04/2014                             | 11:41:06 | 0.025 |
| 04/04/2014                             | 11:42:06 | 0.027 |
| 04/04/2014                             | 11:43:06 | 0.029 |
| 04/04/2014                             | 11:44:06 | 0.027 |
| 04/04/2014                             | 11:45:06 | 0.025 |
| 04/04/2014                             | 11:46:06 | 0.027 |
| 04/04/2014                             | 11:47:06 | 0.029 |
| 04/04/2014                             | 11:48:06 | 0.030 |
| 04/04/2014                             | 11:49:06 | 0.032 |
| 04/04/2014                             | 11:50:06 | 0.029 |
| 04/04/2014                             | 11:51:06 | 0.029 |
| 04/04/2014                             | 11:52:06 | 0.028 |
| 04/04/2014                             | 11:53:06 | 0.037 |
| 04/04/2014                             | 11:54:06 | 0.029 |
| 04/04/2014                             | 11:55:06 | 0.030 |
| 04/04/2014                             | 11:56:06 | 0.030 |
| 04/04/2014                             | 11:57:06 | 0.028 |
| 04/04/2014                             | 11:58:06 | 0.028 |
| 04/04/2014                             | 11:59:06 | 0.030 |
| 04/04/2014                             | 12:00:06 | 0.029 |
| 04/04/2014                             | 12:01:06 | 0.027 |
| 04/04/2014                             | 12:02:06 | 0.027 |
| 04/04/2014                             | 12:03:06 | 0.028 |
| 04/04/2014                             | 12:04:06 | 0.029 |
| 04/04/2014                             | 12:05:06 | 0.029 |
| 04/04/2014                             | 12:06:06 | 0.027 |
| 04/04/2014                             | 12:07:06 | 0.025 |
| 04/04/2014                             | 12:08:06 | 0.028 |
| 04/04/2014                             | 12:09:06 | 0.031 |
| 04/04/2014                             | 12:10:06 | 0.029 |
| 04/04/2014                             | 12:11:06 | 0.033 |
| 04/04/2014                             | 12:12:06 | 0.027 |
| 04/04/2014                             | 12:13:06 | 0.027 |
| 04/04/2014                             | 12:14:06 | 0.032 |
| 04/04/2014                             | 12:15:06 | 0.031 |

| DT 17784 040414 UW @BH 6 7 11 DRILLING |          |       |
|----------------------------------------|----------|-------|
| 04/04/2014                             | 12:16:06 | 0.029 |
| 04/04/2014                             | 12:17:06 | 0.027 |
| 04/04/2014                             | 12:18:06 | 0.026 |
| 04/04/2014                             | 12:19:06 | 0.036 |
| 04/04/2014                             | 12:20:06 | 0.027 |
| 04/04/2014                             | 12:21:06 | 0.025 |
| 04/04/2014                             | 12:22:06 | 0.027 |
| 04/04/2014                             | 12:23:06 | 0.032 |
| 04/04/2014                             | 12:24:06 | 0.027 |
| 04/04/2014                             | 12:25:06 | 0.031 |
| 04/04/2014                             | 12:26:06 | 0.028 |
| 04/04/2014                             | 12:27:06 | 0.041 |
| 04/04/2014                             | 12:28:06 | 0.029 |
| 04/04/2014                             | 12:29:06 | 0.033 |
| 04/04/2014                             | 12:30:06 | 0.031 |
| 04/04/2014                             | 12:31:06 | 0.039 |
| 04/04/2014                             | 12:32:06 | 0.029 |
| 04/04/2014                             | 12:33:06 | 0.028 |
| 04/04/2014                             | 12:34:06 | 0.030 |
| 04/04/2014                             | 12:35:06 | 0.029 |
| 04/04/2014                             | 12:36:06 | 0.027 |
| 04/04/2014                             | 12:37:06 | 0.029 |
| 04/04/2014                             | 12:38:06 | 0.030 |
| 04/04/2014                             | 12:39:06 | 0.026 |
| 04/04/2014                             | 12:40:06 | 0.032 |
| 04/04/2014                             | 12:41:06 | 0.035 |
| 04/04/2014                             | 12:42:06 | 0.029 |
| 04/04/2014                             | 12:43:06 | 0.028 |
| 04/04/2014                             | 12:44:06 | 0.029 |
| 04/04/2014                             | 12:45:06 | 0.029 |
| 04/04/2014                             | 12:46:06 | 0.029 |
| 04/04/2014                             | 12:47:06 | 0.027 |
| 04/04/2014                             | 12:48:06 | 0.028 |
| 04/04/2014                             | 12:49:06 | 0.026 |
| 04/04/2014                             | 12:50:06 | 0.029 |
| 04/04/2014                             | 12:51:06 | 0.120 |
| 04/04/2014                             | 12:52:06 | 0.030 |
| 04/04/2014                             | 12:53:06 | 0.029 |
| 04/04/2014                             | 12:54:06 | 0.027 |
| 04/04/2014                             | 12:55:06 | 0.028 |
| 04/04/2014                             | 12:56:06 | 0.027 |
| 04/04/2014                             | 12:57:06 | 0.028 |
| 04/04/2014                             | 12:58:06 | 0.028 |
| 04/04/2014                             | 12:59:06 | 0.031 |

DT R11550 040414 @Bholes 6 7 11 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/04/2014  
Start Time: 08:28:00  
Duration (dd:hh:mm:ss): 0:04:15:00  
Log Interval (mm:ss): 15:00  
Number of points: 17  
Notes:

Statistics Channel: AEROSOL  
Units:  $\text{mg}/\text{m}^3$   
Average: 0.027  
Minimum: 0.020  
Time of Minimum: 08:43:00  
Date of Minimum: 04/04/2014  
Maximum: 0.039  
Time of Maximum: 09:43:00  
Date of Maximum: 04/04/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL                |
|------------|----------|------------------------|
| MM/dd/yyyy | hh:mm:ss | $\text{mg}/\text{m}^3$ |
| 04/04/2014 | 08:43:00 | 0.020                  |
| 04/04/2014 | 08:58:00 | 0.033                  |
| 04/04/2014 | 09:13:00 | 0.026                  |
| 04/04/2014 | 09:28:00 | 0.034                  |
| 04/04/2014 | 09:43:00 | 0.039                  |
| 04/04/2014 | 09:58:00 | 0.026                  |
| 04/04/2014 | 10:13:00 | 0.026                  |
| 04/04/2014 | 10:28:00 | 0.027                  |
| 04/04/2014 | 10:43:00 | 0.024                  |
| 04/04/2014 | 10:58:00 | 0.024                  |
| 04/04/2014 | 11:13:00 | 0.021                  |
| 04/04/2014 | 11:28:00 | 0.021                  |
| 04/04/2014 | 11:43:00 | 0.024                  |
| 04/04/2014 | 11:58:00 | 0.026                  |
| 04/04/2014 | 12:13:00 | 0.039                  |
| 04/04/2014 | 12:28:00 | 0.033                  |
| 04/04/2014 | 12:43:00 | 0.024                  |

DT 17784 040714 UW @BH 6 11 T1 DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/07/2014  
Start Time: 08:55:59  
Duration (dd:hh:mm:ss): 0:00:19:00  
Log Interval (mm:ss): 01:00  
Number of points: 19  
Notes:

|                  |                   |         |
|------------------|-------------------|---------|
| Statistics       | Channel:          | AEROSOL |
| Units:           | mg/m <sup>3</sup> |         |
| Average:         | 0.490             |         |
| Minimum:         | 0.441             |         |
| Time of Minimum: | 08:59:59          |         |
| Date of Minimum: | 04/07/2014        |         |
| Maximum:         | 0.530             |         |
| Time of Maximum: | 09:01:59          |         |
| Date of Maximum: | 04/07/2014        |         |

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL           |
|------------|----------|-------------------|
| MM/dd/yyyy | hh:mm:ss | mg/m <sup>3</sup> |
| 04/07/2014 | 08:56:59 | 0.504             |
| 04/07/2014 | 08:57:59 | 0.447             |
| 04/07/2014 | 08:58:59 | 0.448             |
| 04/07/2014 | 08:59:59 | 0.441             |
| 04/07/2014 | 09:00:59 | 0.447             |
| 04/07/2014 | 09:01:59 | 0.530             |
| 04/07/2014 | 09:02:59 | 0.464             |
| 04/07/2014 | 09:03:59 | 0.470             |
| 04/07/2014 | 09:04:59 | 0.488             |
| 04/07/2014 | 09:05:59 | 0.493             |
| 04/07/2014 | 09:06:59 | 0.500             |
| 04/07/2014 | 09:07:59 | 0.505             |
| 04/07/2014 | 09:08:59 | 0.510             |
| 04/07/2014 | 09:09:59 | 0.509             |
| 04/07/2014 | 09:10:59 | 0.515             |
| 04/07/2014 | 09:11:59 | 0.516             |
| 04/07/2014 | 09:12:59 | 0.509             |
| 04/07/2014 | 09:13:59 | 0.511             |
| 04/07/2014 | 09:14:59 | 0.506             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 04/07/2014  
Start Time: 09:17:35  
Duration (dd:hh:mm:ss): 0:00:02:00  
Log Interval (mm:ss): 01:00  
Number of points: 2  
Notes:

|            |                   |         |
|------------|-------------------|---------|
| Statistics | Channel:          | AEROSOL |
| Units:     | mg/m <sup>3</sup> |         |

DT 17784 040714 UW @BH 6 11 T1 DRILLING

Average: 0.382  
Minimum: 0.365  
Time of Minimum: 09:19:35  
Date of Minimum: 04/07/2014  
Maximum: 0.398  
Time of Maximum: 09:18:35  
Date of Maximum: 04/07/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/07/2014 | 09:18:35 | 0.398   |                   |
| 04/07/2014 | 09:19:35 | 0.365   |                   |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104307  
Test ID: 003  
Test Abbreviation: MANUAL\_003  
Start Date: 04/07/2014  
Start Time: 09:21:46  
Duration (dd:hh:mm:ss): 0:05:26:00  
Log Interval (mm:ss): 01:00  
Number of points: 326  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.046  
Minimum: 0.010  
Time of Minimum: 12:13:46  
Date of Minimum: 04/07/2014  
Maximum: 0.332  
Time of Maximum: 09:22:46  
Date of Maximum: 04/07/2014

Calibration Sensor: AEROSOL  
Cal. date 05/16/2013

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/07/2014 | 09:22:46 | 0.332   |                   |
| 04/07/2014 | 09:23:46 | 0.321   |                   |
| 04/07/2014 | 09:24:46 | 0.307   |                   |
| 04/07/2014 | 09:25:46 | 0.289   |                   |
| 04/07/2014 | 09:26:46 | 0.255   |                   |
| 04/07/2014 | 09:27:46 | 0.252   |                   |
| 04/07/2014 | 09:28:46 | 0.243   |                   |
| 04/07/2014 | 09:29:46 | 0.234   |                   |
| 04/07/2014 | 09:30:46 | 0.226   |                   |
| 04/07/2014 | 09:31:46 | 0.216   |                   |
| 04/07/2014 | 09:32:46 | 0.210   |                   |
| 04/07/2014 | 09:33:46 | 0.201   |                   |
| 04/07/2014 | 09:34:46 | 0.180   |                   |
| 04/07/2014 | 09:35:46 | 0.169   |                   |
| 04/07/2014 | 09:36:46 | 0.139   |                   |
| 04/07/2014 | 09:37:46 | 0.119   |                   |
| 04/07/2014 | 09:38:46 | 0.107   |                   |
| 04/07/2014 | 09:39:46 | 0.095   |                   |
| 04/07/2014 | 09:40:46 | 0.095   |                   |
| 04/07/2014 | 09:41:46 | 0.099   |                   |

## DT 17784 040714 UW @BH 6 11 T1 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/07/2014 | 09:42:46 | 0.097 |
| 04/07/2014 | 09:43:46 | 0.101 |
| 04/07/2014 | 09:44:46 | 0.101 |
| 04/07/2014 | 09:45:46 | 0.098 |
| 04/07/2014 | 09:46:46 | 0.097 |
| 04/07/2014 | 09:47:46 | 0.097 |
| 04/07/2014 | 09:48:46 | 0.096 |
| 04/07/2014 | 09:49:46 | 0.099 |
| 04/07/2014 | 09:50:46 | 0.102 |
| 04/07/2014 | 09:51:46 | 0.101 |
| 04/07/2014 | 09:52:46 | 0.099 |
| 04/07/2014 | 09:53:46 | 0.103 |
| 04/07/2014 | 09:54:46 | 0.106 |
| 04/07/2014 | 09:55:46 | 0.104 |
| 04/07/2014 | 09:56:46 | 0.104 |
| 04/07/2014 | 09:57:46 | 0.094 |
| 04/07/2014 | 09:58:46 | 0.093 |
| 04/07/2014 | 09:59:46 | 0.098 |
| 04/07/2014 | 10:00:46 | 0.095 |
| 04/07/2014 | 10:01:46 | 0.102 |
| 04/07/2014 | 10:02:46 | 0.082 |
| 04/07/2014 | 10:03:46 | 0.085 |
| 04/07/2014 | 10:04:46 | 0.082 |
| 04/07/2014 | 10:05:46 | 0.074 |
| 04/07/2014 | 10:06:46 | 0.077 |
| 04/07/2014 | 10:07:46 | 0.074 |
| 04/07/2014 | 10:08:46 | 0.069 |
| 04/07/2014 | 10:09:46 | 0.068 |
| 04/07/2014 | 10:10:46 | 0.065 |
| 04/07/2014 | 10:11:46 | 0.061 |
| 04/07/2014 | 10:12:46 | 0.060 |
| 04/07/2014 | 10:13:46 | 0.057 |
| 04/07/2014 | 10:14:46 | 0.061 |
| 04/07/2014 | 10:15:46 | 0.065 |
| 04/07/2014 | 10:16:46 | 0.064 |
| 04/07/2014 | 10:17:46 | 0.068 |
| 04/07/2014 | 10:18:46 | 0.065 |
| 04/07/2014 | 10:19:46 | 0.065 |
| 04/07/2014 | 10:20:46 | 0.070 |
| 04/07/2014 | 10:21:46 | 0.064 |
| 04/07/2014 | 10:22:46 | 0.068 |
| 04/07/2014 | 10:23:46 | 0.066 |
| 04/07/2014 | 10:24:46 | 0.063 |
| 04/07/2014 | 10:25:46 | 0.068 |
| 04/07/2014 | 10:26:46 | 0.074 |
| 04/07/2014 | 10:27:46 | 0.076 |
| 04/07/2014 | 10:28:46 | 0.068 |
| 04/07/2014 | 10:29:46 | 0.074 |
| 04/07/2014 | 10:30:46 | 0.068 |
| 04/07/2014 | 10:31:46 | 0.071 |
| 04/07/2014 | 10:32:46 | 0.072 |
| 04/07/2014 | 10:33:46 | 0.074 |
| 04/07/2014 | 10:34:46 | 0.078 |
| 04/07/2014 | 10:35:46 | 0.082 |
| 04/07/2014 | 10:36:46 | 0.079 |
| 04/07/2014 | 10:37:46 | 0.088 |
| 04/07/2014 | 10:38:46 | 0.081 |
| 04/07/2014 | 10:39:46 | 0.084 |
| 04/07/2014 | 10:40:46 | 0.086 |
| 04/07/2014 | 10:41:46 | 0.091 |
| 04/07/2014 | 10:42:46 | 0.106 |
| 04/07/2014 | 10:43:46 | 0.130 |
| 04/07/2014 | 10:44:46 | 0.139 |

| DT 17784 040714 UW @BH 6 11 T1 DRILLING |          |       |
|-----------------------------------------|----------|-------|
| 04/07/2014                              | 10:45:46 | 0.153 |
| 04/07/2014                              | 10:46:46 | 0.152 |
| 04/07/2014                              | 10:47:46 | 0.158 |
| 04/07/2014                              | 10:48:46 | 0.130 |
| 04/07/2014                              | 10:49:46 | 0.113 |
| 04/07/2014                              | 10:50:46 | 0.095 |
| 04/07/2014                              | 10:51:46 | 0.088 |
| 04/07/2014                              | 10:52:46 | 0.075 |
| 04/07/2014                              | 10:53:46 | 0.073 |
| 04/07/2014                              | 10:54:46 | 0.073 |
| 04/07/2014                              | 10:55:46 | 0.073 |
| 04/07/2014                              | 10:56:46 | 0.068 |
| 04/07/2014                              | 10:57:46 | 0.063 |
| 04/07/2014                              | 10:58:46 | 0.092 |
| 04/07/2014                              | 10:59:46 | 0.066 |
| 04/07/2014                              | 11:00:46 | 0.053 |
| 04/07/2014                              | 11:01:46 | 0.045 |
| 04/07/2014                              | 11:02:46 | 0.038 |
| 04/07/2014                              | 11:03:46 | 0.035 |
| 04/07/2014                              | 11:04:46 | 0.033 |
| 04/07/2014                              | 11:05:46 | 0.030 |
| 04/07/2014                              | 11:06:46 | 0.030 |
| 04/07/2014                              | 11:07:46 | 0.028 |
| 04/07/2014                              | 11:08:46 | 0.024 |
| 04/07/2014                              | 11:09:46 | 0.021 |
| 04/07/2014                              | 11:10:46 | 0.036 |
| 04/07/2014                              | 11:11:46 | 0.022 |
| 04/07/2014                              | 11:12:46 | 0.023 |
| 04/07/2014                              | 11:13:46 | 0.025 |
| 04/07/2014                              | 11:14:46 | 0.021 |
| 04/07/2014                              | 11:15:46 | 0.021 |
| 04/07/2014                              | 11:16:46 | 0.023 |
| 04/07/2014                              | 11:17:46 | 0.023 |
| 04/07/2014                              | 11:18:46 | 0.029 |
| 04/07/2014                              | 11:19:46 | 0.029 |
| 04/07/2014                              | 11:20:46 | 0.019 |
| 04/07/2014                              | 11:21:46 | 0.017 |
| 04/07/2014                              | 11:22:46 | 0.018 |
| 04/07/2014                              | 11:23:46 | 0.019 |
| 04/07/2014                              | 11:24:46 | 0.017 |
| 04/07/2014                              | 11:25:46 | 0.017 |
| 04/07/2014                              | 11:26:46 | 0.019 |
| 04/07/2014                              | 11:27:46 | 0.019 |
| 04/07/2014                              | 11:28:46 | 0.017 |
| 04/07/2014                              | 11:29:46 | 0.014 |
| 04/07/2014                              | 11:30:46 | 0.015 |
| 04/07/2014                              | 11:31:46 | 0.016 |
| 04/07/2014                              | 11:32:46 | 0.019 |
| 04/07/2014                              | 11:33:46 | 0.018 |
| 04/07/2014                              | 11:34:46 | 0.016 |
| 04/07/2014                              | 11:35:46 | 0.016 |
| 04/07/2014                              | 11:36:46 | 0.014 |
| 04/07/2014                              | 11:37:46 | 0.015 |
| 04/07/2014                              | 11:38:46 | 0.022 |
| 04/07/2014                              | 11:39:46 | 0.022 |
| 04/07/2014                              | 11:40:46 | 0.018 |
| 04/07/2014                              | 11:41:46 | 0.019 |
| 04/07/2014                              | 11:42:46 | 0.016 |
| 04/07/2014                              | 11:43:46 | 0.013 |
| 04/07/2014                              | 11:44:46 | 0.016 |
| 04/07/2014                              | 11:45:46 | 0.016 |
| 04/07/2014                              | 11:46:46 | 0.015 |
| 04/07/2014                              | 11:47:46 | 0.015 |

| DT 17784 040714 UW @BH 6 11 T1 DRILLING |          |       |
|-----------------------------------------|----------|-------|
| 04/07/2014                              | 11:48:46 | 0.016 |
| 04/07/2014                              | 11:49:46 | 0.020 |
| 04/07/2014                              | 11:50:46 | 0.040 |
| 04/07/2014                              | 11:51:46 | 0.015 |
| 04/07/2014                              | 11:52:46 | 0.042 |
| 04/07/2014                              | 11:53:46 | 0.020 |
| 04/07/2014                              | 11:54:46 | 0.030 |
| 04/07/2014                              | 11:55:46 | 0.025 |
| 04/07/2014                              | 11:56:46 | 0.063 |
| 04/07/2014                              | 11:57:46 | 0.047 |
| 04/07/2014                              | 11:58:46 | 0.030 |
| 04/07/2014                              | 11:59:46 | 0.017 |
| 04/07/2014                              | 12:00:46 | 0.060 |
| 04/07/2014                              | 12:01:46 | 0.050 |
| 04/07/2014                              | 12:02:46 | 0.012 |
| 04/07/2014                              | 12:03:46 | 0.013 |
| 04/07/2014                              | 12:04:46 | 0.011 |
| 04/07/2014                              | 12:05:46 | 0.011 |
| 04/07/2014                              | 12:06:46 | 0.011 |
| 04/07/2014                              | 12:07:46 | 0.012 |
| 04/07/2014                              | 12:08:46 | 0.013 |
| 04/07/2014                              | 12:09:46 | 0.013 |
| 04/07/2014                              | 12:10:46 | 0.013 |
| 04/07/2014                              | 12:11:46 | 0.012 |
| 04/07/2014                              | 12:12:46 | 0.011 |
| 04/07/2014                              | 12:13:46 | 0.010 |
| 04/07/2014                              | 12:14:46 | 0.011 |
| 04/07/2014                              | 12:15:46 | 0.012 |
| 04/07/2014                              | 12:16:46 | 0.025 |
| 04/07/2014                              | 12:17:46 | 0.013 |
| 04/07/2014                              | 12:18:46 | 0.012 |
| 04/07/2014                              | 12:19:46 | 0.012 |
| 04/07/2014                              | 12:20:46 | 0.011 |
| 04/07/2014                              | 12:21:46 | 0.011 |
| 04/07/2014                              | 12:22:46 | 0.012 |
| 04/07/2014                              | 12:23:46 | 0.014 |
| 04/07/2014                              | 12:24:46 | 0.013 |
| 04/07/2014                              | 12:25:46 | 0.023 |
| 04/07/2014                              | 12:26:46 | 0.014 |
| 04/07/2014                              | 12:27:46 | 0.012 |
| 04/07/2014                              | 12:28:46 | 0.011 |
| 04/07/2014                              | 12:29:46 | 0.020 |
| 04/07/2014                              | 12:30:46 | 0.014 |
| 04/07/2014                              | 12:31:46 | 0.017 |
| 04/07/2014                              | 12:32:46 | 0.013 |
| 04/07/2014                              | 12:33:46 | 0.010 |
| 04/07/2014                              | 12:34:46 | 0.024 |
| 04/07/2014                              | 12:35:46 | 0.019 |
| 04/07/2014                              | 12:36:46 | 0.010 |
| 04/07/2014                              | 12:37:46 | 0.011 |
| 04/07/2014                              | 12:38:46 | 0.012 |
| 04/07/2014                              | 12:39:46 | 0.013 |
| 04/07/2014                              | 12:40:46 | 0.032 |
| 04/07/2014                              | 12:41:46 | 0.016 |
| 04/07/2014                              | 12:42:46 | 0.016 |
| 04/07/2014                              | 12:43:46 | 0.013 |
| 04/07/2014                              | 12:44:46 | 0.013 |
| 04/07/2014                              | 12:45:46 | 0.011 |
| 04/07/2014                              | 12:46:46 | 0.012 |
| 04/07/2014                              | 12:47:46 | 0.020 |
| 04/07/2014                              | 12:48:46 | 0.014 |
| 04/07/2014                              | 12:49:46 | 0.011 |
| 04/07/2014                              | 12:50:46 | 0.011 |

## DT 17784 040714 UW @BH 6 11 T1 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/07/2014 | 12:51:46 | 0.015 |
| 04/07/2014 | 12:52:46 | 0.012 |
| 04/07/2014 | 12:53:46 | 0.012 |
| 04/07/2014 | 12:54:46 | 0.015 |
| 04/07/2014 | 12:55:46 | 0.017 |
| 04/07/2014 | 12:56:46 | 0.032 |
| 04/07/2014 | 12:57:46 | 0.023 |
| 04/07/2014 | 12:58:46 | 0.017 |
| 04/07/2014 | 12:59:46 | 0.015 |
| 04/07/2014 | 13:00:46 | 0.016 |
| 04/07/2014 | 13:01:46 | 0.014 |
| 04/07/2014 | 13:02:46 | 0.012 |
| 04/07/2014 | 13:03:46 | 0.012 |
| 04/07/2014 | 13:04:46 | 0.021 |
| 04/07/2014 | 13:05:46 | 0.016 |
| 04/07/2014 | 13:06:46 | 0.012 |
| 04/07/2014 | 13:07:46 | 0.014 |
| 04/07/2014 | 13:08:46 | 0.014 |
| 04/07/2014 | 13:09:46 | 0.014 |
| 04/07/2014 | 13:10:46 | 0.017 |
| 04/07/2014 | 13:11:46 | 0.016 |
| 04/07/2014 | 13:12:46 | 0.015 |
| 04/07/2014 | 13:13:46 | 0.014 |
| 04/07/2014 | 13:14:46 | 0.015 |
| 04/07/2014 | 13:15:46 | 0.015 |
| 04/07/2014 | 13:16:46 | 0.021 |
| 04/07/2014 | 13:17:46 | 0.024 |
| 04/07/2014 | 13:18:46 | 0.042 |
| 04/07/2014 | 13:19:46 | 0.016 |
| 04/07/2014 | 13:20:46 | 0.013 |
| 04/07/2014 | 13:21:46 | 0.013 |
| 04/07/2014 | 13:22:46 | 0.019 |
| 04/07/2014 | 13:23:46 | 0.015 |
| 04/07/2014 | 13:24:46 | 0.026 |
| 04/07/2014 | 13:25:46 | 0.016 |
| 04/07/2014 | 13:26:46 | 0.018 |
| 04/07/2014 | 13:27:46 | 0.018 |
| 04/07/2014 | 13:28:46 | 0.014 |
| 04/07/2014 | 13:29:46 | 0.014 |
| 04/07/2014 | 13:30:46 | 0.014 |
| 04/07/2014 | 13:31:46 | 0.024 |
| 04/07/2014 | 13:32:46 | 0.029 |
| 04/07/2014 | 13:33:46 | 0.019 |
| 04/07/2014 | 13:34:46 | 0.014 |
| 04/07/2014 | 13:35:46 | 0.024 |
| 04/07/2014 | 13:36:46 | 0.029 |
| 04/07/2014 | 13:37:46 | 0.018 |
| 04/07/2014 | 13:38:46 | 0.011 |
| 04/07/2014 | 13:39:46 | 0.014 |
| 04/07/2014 | 13:40:46 | 0.014 |
| 04/07/2014 | 13:41:46 | 0.013 |
| 04/07/2014 | 13:42:46 | 0.011 |
| 04/07/2014 | 13:43:46 | 0.010 |
| 04/07/2014 | 13:44:46 | 0.011 |
| 04/07/2014 | 13:45:46 | 0.012 |
| 04/07/2014 | 13:46:46 | 0.012 |
| 04/07/2014 | 13:47:46 | 0.012 |
| 04/07/2014 | 13:48:46 | 0.011 |
| 04/07/2014 | 13:49:46 | 0.011 |
| 04/07/2014 | 13:50:46 | 0.013 |
| 04/07/2014 | 13:51:46 | 0.016 |
| 04/07/2014 | 13:52:46 | 0.013 |
| 04/07/2014 | 13:53:46 | 0.012 |

DT 17784 040714 UW @BH 6 11 T1 DRILLING

|            |          |       |
|------------|----------|-------|
| 04/07/2014 | 13:54:46 | 0.011 |
| 04/07/2014 | 13:55:46 | 0.018 |
| 04/07/2014 | 13:56:46 | 0.013 |
| 04/07/2014 | 13:57:46 | 0.013 |
| 04/07/2014 | 13:58:46 | 0.012 |
| 04/07/2014 | 13:59:46 | 0.016 |
| 04/07/2014 | 14:00:46 | 0.014 |
| 04/07/2014 | 14:01:46 | 0.021 |
| 04/07/2014 | 14:02:46 | 0.014 |
| 04/07/2014 | 14:03:46 | 0.014 |
| 04/07/2014 | 14:04:46 | 0.014 |
| 04/07/2014 | 14:05:46 | 0.019 |
| 04/07/2014 | 14:06:46 | 0.021 |
| 04/07/2014 | 14:07:46 | 0.014 |
| 04/07/2014 | 14:08:46 | 0.019 |
| 04/07/2014 | 14:09:46 | 0.013 |
| 04/07/2014 | 14:10:46 | 0.014 |
| 04/07/2014 | 14:11:46 | 0.016 |
| 04/07/2014 | 14:12:46 | 0.015 |
| 04/07/2014 | 14:13:46 | 0.012 |
| 04/07/2014 | 14:14:46 | 0.013 |
| 04/07/2014 | 14:15:46 | 0.017 |
| 04/07/2014 | 14:16:46 | 0.014 |
| 04/07/2014 | 14:17:46 | 0.012 |
| 04/07/2014 | 14:18:46 | 0.014 |
| 04/07/2014 | 14:19:46 | 0.016 |
| 04/07/2014 | 14:20:46 | 0.020 |
| 04/07/2014 | 14:21:46 | 0.016 |
| 04/07/2014 | 14:22:46 | 0.016 |
| 04/07/2014 | 14:23:46 | 0.015 |
| 04/07/2014 | 14:24:46 | 0.032 |
| 04/07/2014 | 14:25:46 | 0.025 |
| 04/07/2014 | 14:26:46 | 0.041 |
| 04/07/2014 | 14:27:46 | 0.031 |
| 04/07/2014 | 14:28:46 | 0.016 |
| 04/07/2014 | 14:29:46 | 0.012 |
| 04/07/2014 | 14:30:46 | 0.013 |
| 04/07/2014 | 14:31:46 | 0.013 |
| 04/07/2014 | 14:32:46 | 0.011 |
| 04/07/2014 | 14:33:46 | 0.012 |
| 04/07/2014 | 14:34:46 | 0.013 |
| 04/07/2014 | 14:35:46 | 0.013 |
| 04/07/2014 | 14:36:46 | 0.014 |
| 04/07/2014 | 14:37:46 | 0.014 |
| 04/07/2014 | 14:38:46 | 0.013 |
| 04/07/2014 | 14:39:46 | 0.012 |
| 04/07/2014 | 14:40:46 | 0.013 |
| 04/07/2014 | 14:41:46 | 0.014 |
| 04/07/2014 | 14:42:46 | 0.013 |
| 04/07/2014 | 14:43:46 | 0.013 |
| 04/07/2014 | 14:44:46 | 0.014 |
| 04/07/2014 | 14:45:46 | 0.015 |
| 04/07/2014 | 14:46:46 | 0.014 |
| 04/07/2014 | 14:47:46 | 0.015 |

DT R11550 040714 @Bholes 6 11 T1 DW DRILLING  
TrakPro Version 4.61 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 001  
Test Abbreviation: MANUAL\_001  
Start Date: 04/07/2014  
Start Time: 08:51:29  
Duration (dd:hh:mm:ss): 0:00:15:00  
Number of points: 1  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.307  
Minimum: 0.307  
Time of Minimum: 09:06:29  
Date of Minimum: 04/07/2014  
Maximum: 0.307  
Time of Maximum: 09:06:29  
Date of Maximum: 04/07/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/07/2014 | 09:06:29 |         | 0.307             |

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530104409  
Test ID: 002  
Test Abbreviation: MANUAL\_002  
Start Date: 04/07/2014  
Start Time: 09:12:33  
Duration (dd:hh:mm:ss): 0:05:30:00  
Log Interval (mm:ss): 15:00  
Number of points: 22  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.040  
Minimum: 0.009  
Time of Minimum: 14:42:33  
Date of Minimum: 04/07/2014  
Maximum: 0.246  
Time of Maximum: 09:27:33  
Date of Maximum: 04/07/2014

Calibration Sensor: AEROSOL  
Cal. date 03/07/2014

| Date       | Time     | AEROSOL |                   |
|------------|----------|---------|-------------------|
| MM/dd/yyyy | hh:mm:ss |         | mg/m <sup>3</sup> |
| 04/07/2014 | 09:27:33 |         | 0.246             |
| 04/07/2014 | 09:42:33 |         | 0.105             |
| 04/07/2014 | 09:57:33 |         | 0.072             |
| 04/07/2014 | 10:12:33 |         | 0.053             |
| 04/07/2014 | 10:27:33 |         | 0.049             |
| 04/07/2014 | 10:42:33 |         | 0.063             |

|            |                            |          |          |
|------------|----------------------------|----------|----------|
|            | DT R11550 040714 @BHo1es 6 | 11 T1 DW | DRILLING |
| 04/07/2014 | 10:57:33                   | 0.076    |          |
| 04/07/2014 | 11:12:33                   | 0.029    |          |
| 04/07/2014 | 11:27:33                   | 0.020    |          |
| 04/07/2014 | 11:42:33                   | 0.018    |          |
| 04/07/2014 | 11:57:33                   | 0.017    |          |
| 04/07/2014 | 12:12:33                   | 0.012    |          |
| 04/07/2014 | 12:27:33                   | 0.011    |          |
| 04/07/2014 | 12:42:33                   | 0.012    |          |
| 04/07/2014 | 12:57:33                   | 0.011    |          |
| 04/07/2014 | 13:12:33                   | 0.012    |          |
| 04/07/2014 | 13:27:33                   | 0.015    |          |
| 04/07/2014 | 13:42:33                   | 0.014    |          |
| 04/07/2014 | 13:57:33                   | 0.015    |          |
| 04/07/2014 | 14:12:33                   | 0.014    |          |
| 04/07/2014 | 14:27:33                   | 0.012    |          |
| 04/07/2014 | 14:42:33                   | 0.009    |          |

APPENDIX H  
SOIL AND LIQUID DISPOSAL DOCUMENTATION



*American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: [www.American-Analytical.com](http://www.American-Analytical.com)*

April 09, 2014

Mike Rose  
Envirotrac  
5 Old Dock Road  
Yaphank, NY 11980  
TEL: (631) 924-3001  
FAX (631) 924-5001

RE: National Grid, Williamsburg

Order No.: 1404043

Dear Mike Rose:

American Analytical Laboratories, LLC. received 1 sample(s) on 4/4/2014 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at [lbeyer@american-analytical.com](mailto:lbeyer@american-analytical.com).

Sincerely,

Lori Beyer  
Lab Director  
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: [www.American-Analytical.com](http://www.American-Analytical.com)

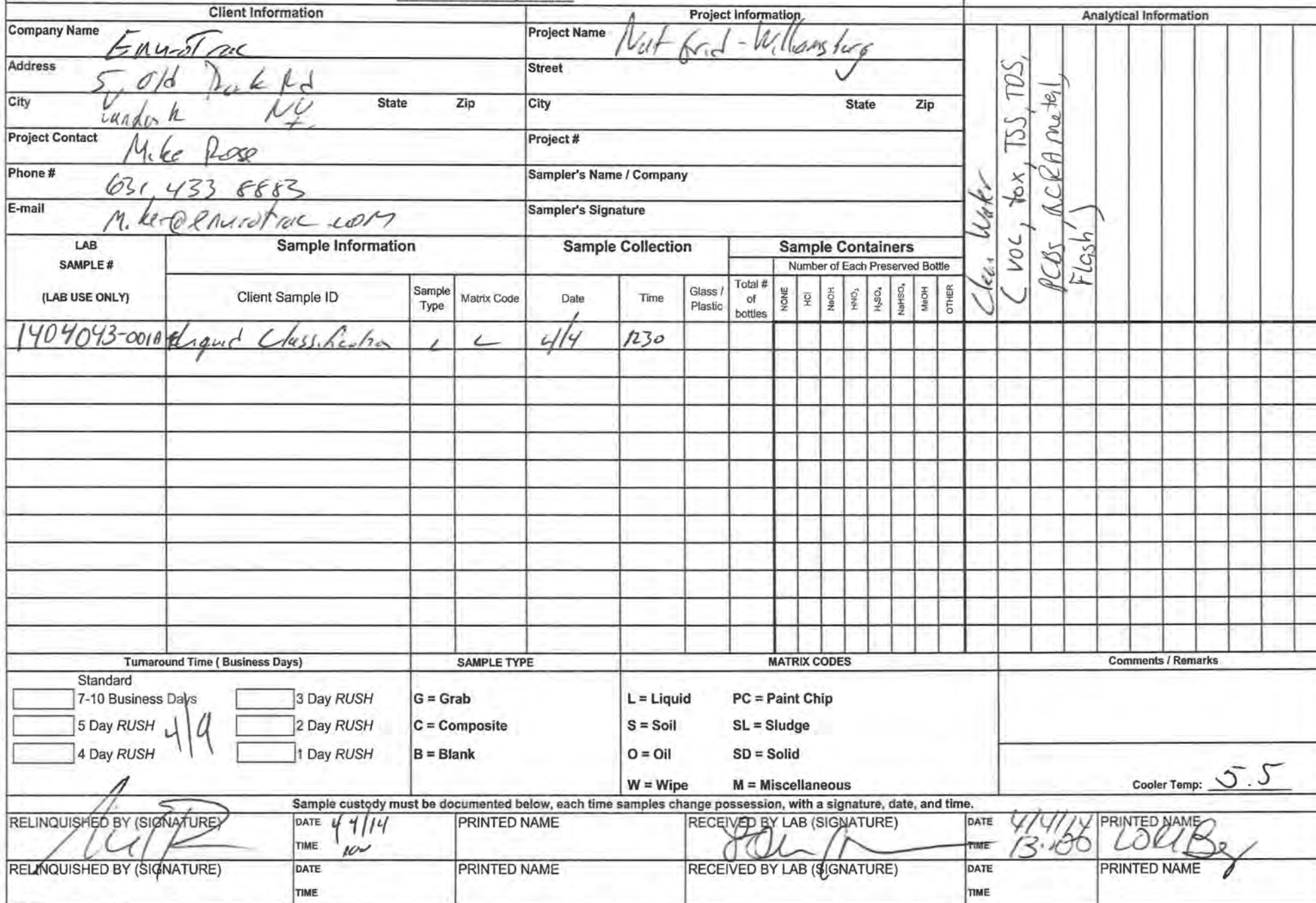
## Workorder Sample Summary

WO#: 1404043

09-Apr-14

**CLIENT:** Envirotrac  
**Project:** National Grid, Williamsburg

| Lab SampleID | Client Sample ID      | Tag No | Date Collected       | Date Received       | Matrix |
|--------------|-----------------------|--------|----------------------|---------------------|--------|
| 1404043-001A | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |
| 1404043-001B | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |
| 1404043-001C | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |
| 1404043-001D | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |
| 1404043-001E | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |
| 1404043-001F | Liquid Classification |        | 4/4/2014 12:30:00 PM | 4/4/2014 1:00:00 PM | Liquid |



Clean

Water  
of New York, Inc.

*Earth Friendly Methods of Recycling*

## **Clean Water of New York, Inc.**

### ***Wastewater Acceptance Criteria***

The following are the basic acceptance parameters for incoming material at Clean Water of New York, Inc. Clean Water is a fully permitted and insured USCG & NYS DEC Part 360 facility with the authorization and capacity to accept oily water, used oils and oily debris. Procedures and techniques will conform to all applicable local, state and federal regulations.

#### **Basic acceptance parameters**

- Flash Point > 100 °F
- Halogens < 1000 PPM
- Solids 1 % (Higher percentages are acceptable at additional cost)
- PCB's\* < 2 PPM
- Arsenic < 100 PPM
- Cadmium < 20 PPM
- Chromium < 100 PPM
- Lead < 100 PPM

\*Any waste stream originating from a Utility must have PCB analysis submitted with the profile form.

**All waste streams must be submitted on a waste profile form for approval prior to shipment.**

Normal delivery hours are 7 AM – 4 PM Monday through Friday. Please call to schedule deliveries.

3249 Richmond Terrace • P.O. Box 030312 • Staten Island, New York 10303-0312  
Telephone (718) 981-4600 • Fax (718) 981-5213  
[www.cwofny.com](http://www.cwofny.com)

plus  
VOC



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## Sample Log-In Check List

Client Name: **ENVIROTRAC**

Work Order Number: **1404043**

RcptNo: **1**

Logged by: **Cate Ferrara** **4/4/2014 1:00:00 PM**

Completed By: **Cate Ferrara** **4/4/2014**

Reviewed By: **Lori Beyer** **4/4/2014 2:57:28 PM**

*C Ferrara*  
*C Ferrara*  
*Lori Beyer*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? AAL Lab Courier

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☒ No ☐ No VOA Vials ☐  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

### Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
|-----------|---------|-----------|-------------|---------|-----------|-----------|



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## Case Narrative

WO#: 1404043  
Date: 4/9/2014

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**CLIENT:** Envirotrac  
**Project:** National Grid, Williamsburg

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Volatile LCS are analyzed with preservatives - HCL/NaHSO<sub>4</sub>/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram. Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, SM 4500-SO<sub>3</sub> B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTM C1152, Water Soluble Chloride by ASTM C1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. Or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



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## Definition Only

WO#: 1404043  
Date: 4/9/2014

### Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything  $<10\times$  the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

\* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be  $>20\%$ .

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

M - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

**American Analytical Laboratories, LLC.**

Date: 09-Apr-14

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: Liquid Classification

Lab Order: 1404043

Collection Date: 4/4/2014 12:30:00 PM

Project: National Grid, Williamsburg

Matrix: LIQUID

Lab ID: 1404043-001A

**Certificate of Results**

| Analyses                              | Sample Result | LOD  | LOQ            | Qual           | Units       | DF | Date/Time Analyzed  |
|---------------------------------------|---------------|------|----------------|----------------|-------------|----|---------------------|
| <b>VOLATILE SW-846 METHOD 8260</b>    |               |      | <b>SW8260C</b> | <b>SW5030C</b> | Analyst: LA |    |                     |
| 1,1,1,2-Tetrachloroethane             | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1,1-Trichloroethane                 | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1,2,2-Tetrachloroethane             | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1,2-Trichloroethane                 | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1-Dichloroethane                    | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1-Dichloroethene                    | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,1-Dichloropropene                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2,3-Trichlorobenzene                | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2,3-Trichloropropane                | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2,4,5-Tetramethylbenzene            | 29            | 0.5  | 2.0            | m              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2,4-Trichlorobenzene                | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2,4-Trimethylbenzene                | 240           | 5    | 20             | D              | µg/L        | 10 | 4/9/2014 2:08:00 PM |
| 1,2-Dibromo-3-chloropropane           | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2-Dibromoethane                     | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2-Dichlorobenzene                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2-Dichloroethane                    | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,2-Dichloropropane                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,3,5-Trimethylbenzene                | 88            | 0.5  | 2.0            |                | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,3-Dichlorobenzene                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,3-dichloropropane                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,4-Dichlorobenzene                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 1,4-Dioxane                           | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2,2-Dichloropropane                   | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2-Butanone                            | ND            | 1.25 | 5.0            | U*             | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2-Chloroethyl vinyl ether             | ND            | 1    | 4.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2-Chlorotoluene                       | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2-Hexanone                            | ND            | 1.25 | 5.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 2-Propanol                            | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 4-Chlorotoluene                       | ND            | 0.5  | 2.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 4-Isopropyltoluene                    | 1.5           | 0.5  | 2.0            | Jm             | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| 4-Methyl-2-pentanone                  | ND            | 1.25 | 5.0            | U              | µg/L        | 1  | 4/8/2014 2:00:00 PM |
| Acetone                               | 5.6           | 1.25 | 5.0            | B*             | µg/L        | 1  | 4/8/2014 2:00:00 PM |

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**American Analytical Laboratories, LLC.**

Date: 09-Apr-14

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: Liquid Classification

Lab Order: 1404043

Collection Date: 4/4/2014 12:30:00 PM

Project: National Grid, Williamsburg

Matrix: LIQUID

Lab ID: 1404043-001A

**Certificate of Results**

| Analyses                           | Sample Result | LOD | LOQ            | Qual | Units          | DF | Date/Time Analyzed  |
|------------------------------------|---------------|-----|----------------|------|----------------|----|---------------------|
| <b>VOLATILE SW-846 METHOD 8260</b> |               |     | <b>SW8260C</b> |      | <b>SW5030C</b> |    | Analyst: LA         |
| Benzene                            | 1500          | 5   | 20             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| Bromobenzene                       | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Bromochloromethane                 | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Bromodichloromethane               | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Bromoform                          | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Bromomethane                       | ND            | 1   | 4.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Carbon disulfide                   | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Carbon tetrachloride               | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Chlorobenzene                      | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Chlorodifluoromethane              | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Chloroethane                       | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Chloroform                         | 3.5           | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Chloromethane                      | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| cis-1,2-Dichloroethene             | 1.7           | 0.5 | 2.0            | J    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| cis-1,3-Dichloropropene            | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Cyclohexane                        | 3.4           | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Dibromochloromethane               | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Dibromomethane                     | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Dichlorodifluoromethane            | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Diisopropyl ether                  | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Ethanol                            | ND            | 2.5 | 10             | U*   | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Ethylbenzene                       | 610           | 5   | 20             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| Freon-114                          | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Hexachlorobutadiene                | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Isopropylbenzene                   | 9.1           | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| m,p-Xylene                         | 990           | 10  | 40             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| Methyl Acetate                     | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Methyl tert-butyl ether            | 0.55          | 0.5 | 2.0            | J    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Methylene chloride                 | 4.7           | 0.5 | 2.0            | B*   | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| n-Butylbenzene                     | 35            | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| n-Propylbenzene                    | 11            | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Naphthalene                        | 4300          | 5   | 20             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| o-Xylene                           | 450           | 5   | 20             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |

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**American Analytical Laboratories, LLC.****Date:** 09-Apr-14**ELAP ID : 11418****CLIENT:** Envirotrac**Client Sample ID:** Liquid Classification**Lab Order:** 1404043**Collection Date:** 4/4/2014 12:30:00 PM**Project:** National Grid, Williamsburg**Matrix:** LIQUID**Lab ID:** 1404043-001A**Certificate of Results**

| Analyses                           | Sample Result | LOD | LOQ            | Qual | Units          | DF | Date/Time Analyzed  |
|------------------------------------|---------------|-----|----------------|------|----------------|----|---------------------|
| <b>VOLATILE SW-846 METHOD 8260</b> |               |     | <b>SW8260C</b> |      | <b>SW5030C</b> |    | Analyst: <b>LA</b>  |
| p-Diethylbenzene                   | 31            | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| p-Ethyltoluene                     | 160           | 0.5 | 2.0            |      | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| sec-Butylbenzene                   | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Styrene                            | 560           | 5   | 20             | Dm   | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| t-Butyl alcohol                    | ND            | 2.5 | 10             | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| tert-Butylbenzene                  | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Tetrachloroethene                  | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Toluene                            | 1400          | 5   | 20             | D    | µg/L           | 10 | 4/9/2014 2:08:00 PM |
| trans-1,2-Dichloroethene           | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| trans-1,3-Dichloropropene          | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Trichloroethene                    | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Trichlorofluoromethane             | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Vinyl acetate                      | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Vinyl chloride                     | ND            | 0.5 | 2.0            | U    | µg/L           | 1  | 4/8/2014 2:00:00 PM |
| Surr: 4-Bromofluorobenzene         | 104           | 0   | 70-128         |      | %REC           | 1  | 4/8/2014 2:00:00 PM |
| Surr: Dibromofluoromethane         | 102           | 0   | 75-129         |      | %REC           | 1  | 4/8/2014 2:00:00 PM |
| Surr: Toluene-d8                   | 97.9          | 0   | 70-124         |      | %REC           | 1  | 4/8/2014 2:00:00 PM |

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**American Analytical Laboratories, LLC.****Date:** 09-Apr-14**ELAP ID :** 11418**CLIENT:** Envirotrac**Client Sample ID:** Liquid Classification**Lab Order:** 1404043**Collection Date:** 4/4/2014 12:30:00 PM**Project:** National Grid, Williamsburg**Matrix:** LIQUID**Lab ID:** 1404043-001B**Certificate of Results**

| Analyses                                   | Sample Result | LOD | LOQ  | Qual | Units | DF | Date/Time Analyzed  |
|--------------------------------------------|---------------|-----|------|------|-------|----|---------------------|
| <b>TOTAL SUSPENDED SOLIDS</b>              |               |     |      |      |       |    | Analyst: <b>PAV</b> |
| Suspended Solids (Residue, Non-Filterable) | 298           | 50  | 50.0 | D    | mg/L  | 20 | 4/8/2014 8:35:00 AM |

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**American Analytical Laboratories, LLC.****Date:** 09-Apr-14**ELAP ID : 11418**

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|                   |                             |                          |                       |
|-------------------|-----------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Envirotrac                  | <b>Client Sample ID:</b> | Liquid Classification |
| <b>Lab Order:</b> | 1404043                     | <b>Collection Date:</b>  | 4/4/2014 12:30:00 PM  |
| <b>Project:</b>   | National Grid, Williamsburg | <b>Matrix:</b>           | LIQUID                |
| <b>Lab ID:</b>    | 1404043-001C                |                          |                       |

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**Certificate of Results**

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| Analyses                                     | Sample Result | LOD | LOQ  | Qual | Units | DF | Date/Time Analyzed  |
|----------------------------------------------|---------------|-----|------|------|-------|----|---------------------|
| <hr/>                                        |               |     |      |      |       |    |                     |
| <b>IGNITABILITY/FLASHPOINT SW-846 1010</b>   |               |     |      |      |       |    | Analyst: <b>STP</b> |
| Ignitability                                 | ND            | 65  | 140  | U    | °F    | 1  | 4/8/2014 1:25:00 PM |
| <b>TOTAL DISSOLVED SOLIDS</b>                |               |     |      |      |       |    | Analyst: <b>PAV</b> |
| Total Dissolved Solids (Residue, Filterable) | 292           | 2   | 10.0 | D    | mg/L  | 10 | 4/8/2014 8:50:00 AM |

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**American Analytical Laboratories, LLC.****Date:** 09-Apr-14**ELAP ID :** 11418

|                   |                             |                          |                       |
|-------------------|-----------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Envirotrac                  | <b>Client Sample ID:</b> | Liquid Classification |
| <b>Lab Order:</b> | 1404043                     | <b>Collection Date:</b>  | 4/4/2014 12:30:00 PM  |
| <b>Project:</b>   | National Grid, Williamsburg | <b>Matrix:</b>           | LIQUID                |
| <b>Lab ID:</b>    | 1404043-001D                |                          |                       |

**Certificate of Results**

| Analyses            | Sample Result | LOD    | LOQ           | Qual | Units          | DF | Date/Time Analyzed  |
|---------------------|---------------|--------|---------------|------|----------------|----|---------------------|
| <b>MERCURY</b>      |               |        | <b>E245.1</b> |      | <b>SW7470A</b> |    | Analyst: <b>JP</b>  |
| Mercury             | ND            | 0.0002 | 0.000250      | U    | mg/L           | 1  | 4/8/2014 1:05:08 PM |
| <b>TOTAL METALS</b> |               |        | <b>E200.7</b> |      | <b>SW3010A</b> |    | Analyst: <b>JP</b>  |
| Arsenic             | ND            | 0.01   | 0.0250        | U    | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Barium              | 0.276         | 0.005  | 0.0200        |      | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Cadmium             | ND            | 0.005  | 0.0100        | U    | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Chromium            | 0.0330        | 0.005  | 0.0200        |      | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Lead                | 0.0472        | 0.005  | 0.0150        |      | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Selenium            | ND            | 0.01   | 0.0250        | U    | mg/L           | 1  | 4/8/2014 2:08:32 PM |
| Silver              | ND            | 0.005  | 0.0200        | U    | mg/L           | 1  | 4/8/2014 2:08:32 PM |

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**American Analytical Laboratories, LLC.****Date:** 09-Apr-14**ELAP ID : 11418****CLIENT:** Envirotrac**Client Sample ID:** Liquid Classification**Lab Order:** 1404043**Collection Date:** 4/4/2014 12:30:00 PM**Project:** National Grid, Williamsburg**Matrix:** LIQUID**Lab ID:** 1404043-001E**Certificate of Results**

| Analyses                                    | Sample Result | LOD  | LOQ            | Qual | Units          | DF | Date/Time Analyzed   |
|---------------------------------------------|---------------|------|----------------|------|----------------|----|----------------------|
| <b>PCB'S AS AROCLORS SW-846 METHOD 8082</b> |               |      | <b>SW8082A</b> |      | <b>SW3510C</b> |    | Analyst: <b>SB</b>   |
| Aroclor 1016                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1221                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1232                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1242                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1248                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1254                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1260                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1262                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Aroclor 1268                                | ND            | 0.25 | 0.50           | U    | µg/L           | 1  | 4/9/2014 11:43:00 AM |
| Surr: DCB                                   | 108           | 0    | 15-147         |      | %REC           | 1  | 4/9/2014 11:43:00 AM |
| Surr: TCX                                   | 149           | 0    | 14-144         | S    | %REC           | 1  | 4/9/2014 11:43:00 AM |

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# American Analytical Laboratories, LLC.

Date: 09-Apr-14

ELAP ID : 11418

|                   |                             |                          |                       |
|-------------------|-----------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Envirotrac                  | <b>Client Sample ID:</b> | Liquid Classification |
| <b>Lab Order:</b> | 1404043                     | <b>Collection Date:</b>  | 4/4/2014 12:30:00 PM  |
| <b>Project:</b>   | National Grid, Williamsburg | <b>Matrix:</b>           | LIQUID                |
| <b>Lab ID:</b>    | 1404043-001F                |                          |                       |

## Certificate of Results

| Analyses                           | Sample Result | LOD | LOQ  | Qual           | Units | DF | Date/Time Analyzed  |
|------------------------------------|---------------|-----|------|----------------|-------|----|---------------------|
| <b>TOTAL ORGANIC HALIDES (TOX)</b> |               |     |      | <b>SW9020B</b> |       |    | Analyst: <b>JP</b>  |
| Total Organic Halides (TOX)        | 3.20          | 1.5 | 3.00 |                | mg/L  | 1  | 4/9/2014 3:24:09 PM |

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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 793

|            |                    |           |            |           |               |           |                |                |                 |        |              |
|------------|--------------------|-----------|------------|-----------|---------------|-----------|----------------|----------------|-----------------|--------|--------------|
| Sample ID  | <b>LCSW040814A</b> | SampType: | <b>LCS</b> | TestCode: | <b>HG_W</b>   | Units:    | <b>mg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo: | <b>1183</b>  |
| Client ID: | <b>LCSW</b>        | Batch ID: | <b>793</b> | TestNo:   | <b>E245.1</b> |           | <b>SW7470A</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo: | <b>19894</b> |
| Analyte    |                    | Result    |            | PQL       |               | SPK value |                | SPK Ref Val    |                 | %REC   |              |

|         |         |          |          |   |      |    |     |
|---------|---------|----------|----------|---|------|----|-----|
| Mercury | 0.00378 | 0.000250 | 0.004000 | 0 | 94.5 | 85 | 115 |
|---------|---------|----------|----------|---|------|----|-----|

|            |                       |           |            |           |               |           |                |                |                 |        |              |
|------------|-----------------------|-----------|------------|-----------|---------------|-----------|----------------|----------------|-----------------|--------|--------------|
| Sample ID  | <b>1404059-001AMS</b> | SampType: | <b>MS</b>  | TestCode: | <b>HG_W</b>   | Units:    | <b>mg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo: | <b>1183</b>  |
| Client ID: | <b>BatchQC</b>        | Batch ID: | <b>793</b> | TestNo:   | <b>E245.1</b> |           | <b>SW7470A</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo: | <b>19906</b> |
| Analyte    |                       | Result    |            | PQL       |               | SPK value |                | SPK Ref Val    |                 | %REC   |              |

|         |         |          |          |   |      |    |     |
|---------|---------|----------|----------|---|------|----|-----|
| Mercury | 0.00355 | 0.000250 | 0.004000 | 0 | 88.8 | 70 | 130 |
|---------|---------|----------|----------|---|------|----|-----|

|            |                        |           |            |           |               |           |                |                |                 |        |              |
|------------|------------------------|-----------|------------|-----------|---------------|-----------|----------------|----------------|-----------------|--------|--------------|
| Sample ID  | <b>1404059-001AMSD</b> | SampType: | <b>MSD</b> | TestCode: | <b>HG_W</b>   | Units:    | <b>mg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo: | <b>1183</b>  |
| Client ID: | <b>BatchQC</b>         | Batch ID: | <b>793</b> | TestNo:   | <b>E245.1</b> |           | <b>SW7470A</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo: | <b>19907</b> |
| Analyte    |                        | Result    |            | PQL       |               | SPK value |                | SPK Ref Val    |                 | %REC   |              |

|         |         |          |          |   |      |    |     |          |      |    |
|---------|---------|----------|----------|---|------|----|-----|----------|------|----|
| Mercury | 0.00367 | 0.000250 | 0.004000 | 0 | 91.8 | 70 | 130 | 0.003550 | 3.32 | 20 |
|---------|---------|----------|----------|---|------|----|-----|----------|------|----|

|            |                   |           |             |           |               |           |                |                |                 |        |              |
|------------|-------------------|-----------|-------------|-----------|---------------|-----------|----------------|----------------|-----------------|--------|--------------|
| Sample ID  | <b>MBW040814A</b> | SampType: | <b>MBLK</b> | TestCode: | <b>HG_W</b>   | Units:    | <b>mg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo: | <b>1183</b>  |
| Client ID: | <b>PBW</b>        | Batch ID: | <b>793</b>  | TestNo:   | <b>E245.1</b> |           | <b>SW7470A</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo: | <b>19919</b> |
| Analyte    |                   | Result    |             | PQL       |               | SPK value |                | SPK Ref Val    |                 | %REC   |              |

|         |    |          |  |  |  |  |  |  |  |  |   |
|---------|----|----------|--|--|--|--|--|--|--|--|---|
| Mercury | ND | 0.000250 |  |  |  |  |  |  |  |  | U |
|---------|----|----------|--|--|--|--|--|--|--|--|---|

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-799</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_W</b>  | Units:   | <b>µg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo:   | <b>1211</b>  |
| Client ID:                | <b>LCSW</b>    | Batch ID: | <b>799</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5030C</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo:   | <b>20480</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 42             | 2.0       | 50.00      | 0           | 83.8           | 35       | 131            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 40             | 2.0       | 50.00      | 0           | 79.6           | 33       | 152            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 40             | 2.0       | 50.00      | 0           | 80.3           | 38       | 121            |                |                 |          |              |
| 1,1-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.6           | 31       | 132            |                |                 |          |              |
| 1,1-Dichloroethene        | 41             | 2.0       | 50.00      | 0           | 82.9           | 22       | 131            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.3           | 44       | 123            |                |                 |          |              |
| 1,2-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.4           | 43       | 127            |                |                 |          |              |
| 1,2-Dichloropropane       | 40             | 2.0       | 50.00      | 0           | 80.9           | 42       | 126            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 82.4           | 45       | 127            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.9           | 43       | 126            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | ND             | 4.0       | 50.00      | 0           | 0              | 20       | 133            |                |                 |          | SU           |
| Bromodichloromethane      | 40             | 2.0       | 50.00      | 0           | 80.4           | 38       | 122            |                |                 |          |              |
| Bromoform                 | 41             | 2.0       | 50.00      | 0           | 81.0           | 46       | 128            |                |                 |          |              |
| Bromomethane              | 36             | 4.0       | 50.00      | 0           | 72.3           | 27       | 146            |                |                 |          |              |
| Carbon tetrachloride      | 43             | 2.0       | 50.00      | 0           | 85.2           | 35       | 134            |                |                 |          |              |
| Chlorobenzene             | 40             | 2.0       | 50.00      | 0           | 80.6           | 47       | 120            |                |                 |          |              |
| Chloroethane              | 50             | 2.0       | 50.00      | 0           | 101            | 38       | 130            |                |                 |          |              |
| Chloroform                | 40             | 2.0       | 50.00      | 0           | 80.5           | 35       | 138            |                |                 |          |              |
| Chloromethane             | 47             | 2.0       | 50.00      | 0           | 93.2           | 20       | 155            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 41             | 2.0       | 50.00      | 0           | 81.6           | 33       | 120            |                |                 |          |              |
| Dibromochloromethane      | 41             | 2.0       | 50.00      | 0           | 82.8           | 42       | 128            |                |                 |          |              |
| Methylene chloride        | 13             | 2.0       | 50.00      | 0           | 26.9           | 27       | 137            |                |                 |          | BS*          |
| Tetrachloroethene         | 37             | 2.0       | 50.00      | 0           | 74.5           | 30       | 125            |                |                 |          |              |
| trans-1,2-Dichloroethene  | 40             | 2.0       | 50.00      | 0           | 79.4           | 24       | 130            |                |                 |          |              |
| trans-1,3-Dichloropropene | 43             | 2.0       | 50.00      | 0           | 85.7           | 30       | 120            |                |                 |          |              |
| Trichloroethene           | 41             | 2.0       | 50.00      | 0           | 81.6           | 41       | 125            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |         |               |                  |             |                         |              |           |             |      |          |      |
|----------------------------|---------|---------------|------------------|-------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                  | LCS-799 | SampType: LCS | TestCode: 8260_W | Units: µg/L | Prep Date: 4/8/2014     | RunNo: 1211  |           |             |      |          |      |
| Client ID:                 | LCSW    | Batch ID: 799 | TestNo: SW8260C  | SW5030C     | Analysis Date: 4/8/2014 | SeqNo: 20480 |           |             |      |          |      |
| Analyte                    | Result  | PQL           | SPK value        | SPK Ref Val | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Trichlorofluoromethane     | 53      | 2.0           | 50.00            | 0           | 106                     | 38           | 149       |             |      |          |      |
| Vinyl chloride             | 51      | 2.0           | 50.00            | 0           | 102                     | 24           | 152       |             |      |          |      |
| Surr: 4-Bromofluorobenzene | 49      |               | 50.00            |             | 98.2                    | 70           | 128       |             |      |          |      |
| Surr: Dibromofluoromethane | 50      |               | 50.00            |             | 99.9                    | 75           | 129       |             |      |          |      |
| Surr: Toluene-d8           | 50      |               | 50.00            |             | 100                     | 70           | 124       |             |      |          |      |

|                                       |        |           |      |           |             |         |          |                |             |        |          |      |
|---------------------------------------|--------|-----------|------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID                             | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units:  | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1211     |      |
| Client ID:                            | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     | SW5030C |          | Analysis Date: | 4/8/2014    | SeqNo: | 20481    |      |
| Analyte                               |        | Result    | PQL  | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane             |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,1-Trichloroethane                 |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2,2-Tetrachloroethane             |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2-Trichloroethane                 |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloroethane                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloroethene                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloropropene                   |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,3-Trichlorobenzene                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,3-Trichloropropane                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,4,5-Tetramethylbenzene            |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,4-Trichlorobenzene                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dibromo-3-chloropropane           |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dibromoethane                     |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene                   |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

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56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                           |        |           |      |           |           |             |         |                |           |             |       |          |      |
|---------------------------|--------|-----------|------|-----------|-----------|-------------|---------|----------------|-----------|-------------|-------|----------|------|
| Sample ID                 | MB-799 | SampType: | MBLK | TestCode: | 8260_W    | Units:      | µg/L    | Prep Date:     | 4/8/2014  | RunNo:      | 1211  |          |      |
| Client ID:                | PBW    | Batch ID: | 799  | TestNo:   | SW8260C   |             | SW5030C | Analysis Date: | 4/8/2014  | SeqNo:      | 20481 |          |      |
| Analyte                   |        | Result    |      | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| 1,2-Dichloroethane        |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,2-Dichloropropane       |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,3,5-Trimethylbenzene    |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,3-Dichlorobenzene       |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,3-dichloropropane       |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,4-Dichlorobenzene       |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 1,4-Dioxane               |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 2,2-Dichloropropane       |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 2-Butanone                |        | ND        |      | 5.0       |           |             |         |                |           |             |       |          | U    |
| 2-Chloroethyl vinyl ether |        | ND        |      | 4.0       |           |             |         |                |           |             |       |          | U    |
| 2-Chlorotoluene           |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 2-Hexanone                |        | ND        |      | 5.0       |           |             |         |                |           |             |       |          | U    |
| 2-Propanol                |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 4-Chlorotoluene           |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 4-Isopropyltoluene        |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| 4-Methyl-2-pentanone      |        | ND        |      | 5.0       |           |             |         |                |           |             |       |          | U    |
| Acetone                   |        | 2.8       |      | 5.0       |           |             |         |                |           |             |       |          | J*   |
| Bromobenzene              |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Bromochloromethane        |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Bromodichloromethane      |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Bromoform                 |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Bromomethane              |        | ND        |      | 4.0       |           |             |         |                |           |             |       |          | U    |
| Carbon disulfide          |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Carbon tetrachloride      |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Chlorobenzene             |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |
| Chlorodifluoromethane     |        | ND        |      | 2.0       |           |             |         |                |           |             |       |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                          |        |           |      |           |             |        |          |                |             |        |          |      |
|--------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units: | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1211     |      |
| Client ID:               | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     |        | SW5030C  | Analysis Date: | 4/8/2014    | SeqNo: | 20481    |      |
| Analyte                  |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chloroethane             |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform               |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane            |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene   |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane              |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane     |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Diisopropyl ether        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| Freon-114                |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride       |        | 4.4       | 2.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| n-Propylbenzene          |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol          |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |        |           |      |           |         |           |         |                |          |        |          |           |             |  |      |          |      |
|----------------------------|--------|-----------|------|-----------|---------|-----------|---------|----------------|----------|--------|----------|-----------|-------------|--|------|----------|------|
| Sample ID                  | MB-799 | SampType: | MBLK | TestCode: | 8260_W  | Units:    | µg/L    | Prep Date:     | 4/8/2014 | RunNo: | 1211     |           |             |  |      |          |      |
| Client ID:                 | PBW    | Batch ID: | 799  | TestNo:   | SW8260C |           | SW5030C | Analysis Date: | 4/8/2014 | SeqNo: | 20481    |           |             |  |      |          |      |
| Analyte                    |        | Result    |      | PQL       |         | SPK value |         | SPK Ref Val    |          | %REC   | LowLimit | HighLimit | RPD Ref Val |  | %RPD | RPDLimit | Qual |
| trans-1,3-Dichloropropene  |        | ND        |      | 2.0       |         |           |         |                |          |        |          |           |             |  |      |          | U    |
| Trichloroethene            |        | ND        |      | 2.0       |         |           |         |                |          |        |          |           |             |  |      |          | U    |
| Trichlorofluoromethane     |        | ND        |      | 2.0       |         |           |         |                |          |        |          |           |             |  |      |          | U    |
| Vinyl acetate              |        | ND        |      | 2.0       |         |           |         |                |          |        |          |           |             |  |      |          | U    |
| Vinyl chloride             |        | ND        |      | 2.0       |         |           |         |                |          |        |          |           |             |  |      |          | U    |
| Surr: 4-Bromofluorobenzene |        | 49        |      |           |         | 50.00     |         |                |          | 98.8   | 70       | 128       |             |  |      |          |      |
| Surr: Dibromofluoromethane |        | 50        |      |           |         | 50.00     |         |                |          | 100    | 75       | 129       |             |  |      |          |      |
| Surr: Toluene-d8           |        | 50        |      |           |         | 50.00     |         |                |          | 101    | 70       | 124       |             |  |      |          |      |

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## QC SUMMARY REPORT

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09-Apr-14

**Client:** Envirotrac  
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**BatchID:** 799

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-799</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_W</b>  | Units:   | <b>µg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo:   | <b>1203</b>  |
| Client ID:                | <b>LCSW</b>    | Batch ID: | <b>799</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5030C</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo:   | <b>20267</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 42             | 2.0       | 50.00      | 0           | 83.8           | 35       | 131            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 40             | 2.0       | 50.00      | 0           | 79.6           | 33       | 152            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 40             | 2.0       | 50.00      | 0           | 80.3           | 38       | 121            |                |                 |          |              |
| 1,1-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.6           | 31       | 132            |                |                 |          |              |
| 1,1-Dichloroethene        | 41             | 2.0       | 50.00      | 0           | 82.9           | 22       | 131            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.3           | 44       | 123            |                |                 |          |              |
| 1,2-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.4           | 43       | 127            |                |                 |          |              |
| 1,2-Dichloropropane       | 40             | 2.0       | 50.00      | 0           | 80.9           | 42       | 126            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 82.4           | 45       | 127            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.9           | 43       | 126            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | ND             | 4.0       | 50.00      | 0           | 0              | 20       | 133            |                |                 |          | SU           |
| Bromodichloromethane      | 40             | 2.0       | 50.00      | 0           | 80.4           | 38       | 122            |                |                 |          |              |
| Bromoform                 | 41             | 2.0       | 50.00      | 0           | 81.0           | 46       | 128            |                |                 |          |              |
| Bromomethane              | 36             | 4.0       | 50.00      | 0           | 72.3           | 27       | 146            |                |                 |          |              |
| Carbon tetrachloride      | 43             | 2.0       | 50.00      | 0           | 85.2           | 35       | 134            |                |                 |          |              |
| Chlorobenzene             | 40             | 2.0       | 50.00      | 0           | 80.6           | 47       | 120            |                |                 |          |              |
| Chloroethane              | 50             | 2.0       | 50.00      | 0           | 101            | 38       | 130            |                |                 |          |              |
| Chloroform                | 40             | 2.0       | 50.00      | 0           | 80.5           | 35       | 138            |                |                 |          |              |
| Chloromethane             | 47             | 2.0       | 50.00      | 0           | 93.2           | 20       | 155            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 41             | 2.0       | 50.00      | 0           | 81.6           | 33       | 120            |                |                 |          |              |
| Dibromochloromethane      | 41             | 2.0       | 50.00      | 0           | 82.8           | 42       | 128            |                |                 |          |              |
| Methylene chloride        | 13             | 2.0       | 50.00      | 0           | 26.9           | 27       | 137            |                |                 |          | BS*          |
| Tetrachloroethene         | 37             | 2.0       | 50.00      | 0           | 74.5           | 30       | 125            |                |                 |          |              |
| trans-1,2-Dichloroethene  | 40             | 2.0       | 50.00      | 0           | 79.4           | 24       | 130            |                |                 |          |              |
| trans-1,3-Dichloropropene | 43             | 2.0       | 50.00      | 0           | 85.7           | 30       | 120            |                |                 |          |              |
| Trichloroethene           | 41             | 2.0       | 50.00      | 0           | 81.6           | 41       | 125            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |         |               |                  |             |                         |              |           |             |      |          |      |
|----------------------------|---------|---------------|------------------|-------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                  | LCS-799 | SampType: LCS | TestCode: 8260_W | Units: µg/L | Prep Date: 4/8/2014     | RunNo: 1203  |           |             |      |          |      |
| Client ID:                 | LCSW    | Batch ID: 799 | TestNo: SW8260C  | SW5030C     | Analysis Date: 4/8/2014 | SeqNo: 20267 |           |             |      |          |      |
| Analyte                    | Result  | PQL           | SPK value        | SPK Ref Val | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Trichlorofluoromethane     | 53      | 2.0           | 50.00            | 0           | 106                     | 38           | 149       |             |      |          |      |
| Vinyl chloride             | 51      | 2.0           | 50.00            | 0           | 102                     | 24           | 152       |             |      |          |      |
| Surr: 4-Bromofluorobenzene | 49      |               | 50.00            |             | 98.2                    | 70           | 128       |             |      |          |      |
| Surr: Dibromofluoromethane | 50      |               | 50.00            |             | 99.9                    | 75           | 129       |             |      |          |      |
| Surr: Toluene-d8           | 50      |               | 50.00            |             | 100                     | 70           | 124       |             |      |          |      |

|                                       |        |           |      |           |             |         |          |                |             |        |          |      |
|---------------------------------------|--------|-----------|------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID                             | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units:  | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1203     |      |
| Client ID:                            | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     | SW5030C |          | Analysis Date: | 4/8/2014    | SeqNo: | 20268    |      |
| Analyte                               |        | Result    | PQL  | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane             |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,1-Trichloroethane                 |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2,2-Tetrachloroethane             |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1,2-Trichloroethane                 |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloroethane                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloroethene                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,1-Dichloropropene                   |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,3-Trichlorobenzene                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,3-Trichloropropane                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,4,5-Tetramethylbenzene            |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2,4-Trichlorobenzene                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dibromo-3-chloropropane           |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dibromoethane                     |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene                   |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                           |        |           |      |           |             |        |          |                |             |        |          |      |
|---------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                 | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units: | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1203     |      |
| Client ID:                | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     |        | SW5030C  | Analysis Date: | 4/8/2014    | SeqNo: | 20268    |      |
| Analyte                   |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2-Dichloroethane        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3,5-Trimethylbenzene    |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dioxane               |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2,2-Dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2-Butanone                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U*   |
| 2-Chloroethyl vinyl ether |        | ND        | 4.0  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorotoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2-Hexanone                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Propanol                |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorotoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Isopropyltoluene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Methyl-2-pentanone      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Acetone                   |        | 2.8       | 5.0  |           |             |        |          |                |             |        |          | J*   |
| Bromobenzene              |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromochloromethane        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromodichloromethane      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromoform                 |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromomethane              |        | ND        | 4.0  |           |             |        |          |                |             |        |          | U    |
| Carbon disulfide          |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Carbon tetrachloride      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chlorobenzene             |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chlorodifluoromethane     |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                          |        |           |      |           |             |        |          |                |             |        |          |      |
|--------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units: | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1203     |      |
| Client ID:               | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     |        | SW5030C  | Analysis Date: | 4/8/2014    | SeqNo: | 20268    |      |
| Analyte                  |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chloroethane             |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform               |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane            |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene   |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane              |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane     |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Diisopropyl ether        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| Freon-114                |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride       |        | 4.4       | 2.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| n-Propylbenzene          |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol          |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |

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Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |        |           |           |             |         |          |           |                |          |          |       |
|----------------------------|--------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|-------|
| Sample ID                  | MB-799 | SampType: | MBLK      | TestCode:   | 8260_W  | Units:   | µg/L      | Prep Date:     | 4/8/2014 | RunNo:   | 1203  |
| Client ID:                 | PBW    | Batch ID: | 799       | TestNo:     | SW8260C |          | SW5030C   | Analysis Date: | 4/8/2014 | SeqNo:   | 20268 |
| Analyte                    | Result | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| trans-1,3-Dichloropropene  | ND     | 2.0       |           |             |         |          |           |                |          |          | U     |
| Trichloroethene            | ND     | 2.0       |           |             |         |          |           |                |          |          | U     |
| Trichlorofluoromethane     | ND     | 2.0       |           |             |         |          |           |                |          |          | U     |
| Vinyl acetate              | ND     | 2.0       |           |             |         |          |           |                |          |          | U     |
| Vinyl chloride             | ND     | 2.0       |           |             |         |          |           |                |          |          | U     |
| Surr: 4-Bromofluorobenzene | 49     |           | 50.00     |             | 98.8    | 70       | 128       |                |          |          |       |
| Surr: Dibromofluoromethane | 50     |           | 50.00     |             | 100     | 75       | 129       |                |          |          |       |
| Surr: Toluene-d8           | 50     |           | 50.00     |             | 101     | 70       | 124       |                |          |          |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-799</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_W</b>  | Units:   | <b>µg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo:   | <b>1185</b>  |
| Client ID:                | <b>LCSW</b>    | Batch ID: | <b>799</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5030C</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo:   | <b>19960</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 42             | 2.0       | 50.00      | 0           | 83.8           | 35       | 131            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 40             | 2.0       | 50.00      | 0           | 79.6           | 33       | 152            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 40             | 2.0       | 50.00      | 0           | 80.3           | 38       | 121            |                |                 |          |              |
| 1,1-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.6           | 31       | 132            |                |                 |          |              |
| 1,1-Dichloroethene        | 41             | 2.0       | 50.00      | 0           | 82.9           | 22       | 131            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.3           | 44       | 123            |                |                 |          |              |
| 1,2-Dichloroethane        | 39             | 2.0       | 50.00      | 0           | 78.4           | 43       | 127            |                |                 |          |              |
| 1,2-Dichloropropane       | 40             | 2.0       | 50.00      | 0           | 80.9           | 42       | 126            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 82.4           | 45       | 127            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 41             | 2.0       | 50.00      | 0           | 81.9           | 43       | 126            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | ND             | 4.0       | 50.00      | 0           | 0              | 20       | 133            |                |                 |          | SU           |
| Bromodichloromethane      | 40             | 2.0       | 50.00      | 0           | 80.4           | 38       | 122            |                |                 |          |              |
| Bromoform                 | 41             | 2.0       | 50.00      | 0           | 81.0           | 46       | 128            |                |                 |          |              |
| Bromomethane              | 36             | 4.0       | 50.00      | 0           | 72.3           | 27       | 146            |                |                 |          |              |
| Carbon tetrachloride      | 43             | 2.0       | 50.00      | 0           | 85.2           | 35       | 134            |                |                 |          |              |
| Chlorobenzene             | 40             | 2.0       | 50.00      | 0           | 80.6           | 47       | 120            |                |                 |          |              |
| Chloroethane              | 50             | 2.0       | 50.00      | 0           | 101            | 38       | 130            |                |                 |          |              |
| Chloroform                | 40             | 2.0       | 50.00      | 0           | 80.5           | 35       | 138            |                |                 |          |              |
| Chloromethane             | 47             | 2.0       | 50.00      | 0           | 93.2           | 20       | 155            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 41             | 2.0       | 50.00      | 0           | 81.6           | 33       | 120            |                |                 |          |              |
| Dibromochloromethane      | 41             | 2.0       | 50.00      | 0           | 82.8           | 42       | 128            |                |                 |          |              |
| Methylene chloride        | 13             | 2.0       | 50.00      | 0           | 26.9           | 27       | 137            |                |                 |          | BS*          |
| Tetrachloroethene         | 37             | 2.0       | 50.00      | 0           | 74.5           | 30       | 125            |                |                 |          |              |
| trans-1,2-Dichloroethene  | 40             | 2.0       | 50.00      | 0           | 79.4           | 24       | 130            |                |                 |          |              |
| trans-1,3-Dichloropropene | 43             | 2.0       | 50.00      | 0           | 85.7           | 30       | 120            |                |                 |          |              |
| Trichloroethene           | 41             | 2.0       | 50.00      | 0           | 81.6           | 41       | 125            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |                |           |            |             |                |          |                |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-799</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_W</b>  | Units:   | <b>µg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo:   | <b>1185</b>  |
| Client ID:                 | <b>LCSW</b>    | Batch ID: | <b>799</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5030C</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo:   | <b>19960</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Trichlorofluoromethane     | 53             | 2.0       | 50.00      | 0           | 106            | 38       | 149            |                |                 |          |              |
| Vinyl chloride             | 51             | 2.0       | 50.00      | 0           | 102            | 24       | 152            |                |                 |          |              |
| Surr: 4-Bromofluorobenzene | 49             |           | 50.00      |             | 98.2           | 70       | 128            |                |                 |          |              |
| Surr: Dibromofluoromethane | 50             |           | 50.00      |             | 99.9           | 75       | 129            |                |                 |          |              |
| Surr: Toluene-d8           | 50             |           | 50.00      |             | 100            | 70       | 124            |                |                 |          |              |

|                                       |               |           |             |             |                |          |                |                |                 |          |              |
|---------------------------------------|---------------|-----------|-------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                             | <b>MB-799</b> | SampType: | <b>MBLK</b> | TestCode:   | <b>8260_W</b>  | Units:   | <b>µg/L</b>    | Prep Date:     | <b>4/8/2014</b> | RunNo:   | <b>1185</b>  |
| Client ID:                            | <b>PBW</b>    | Batch ID: | <b>799</b>  | TestNo:     | <b>SW8260C</b> |          | <b>SW5030C</b> | Analysis Date: | <b>4/8/2014</b> | SeqNo:   | <b>19961</b> |
| Analyte                               | Result        | PQL       | SPK value   | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1,2-Tetrachloroethane             | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,1-Trichloroethane                 | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2,2-Tetrachloroethane             | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloroethane                 | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethane                    | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethene                    | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloropropene                   | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichlorobenzene                | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichloropropane                | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4,5-Tetramethylbenzene            | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4-Trichlorobenzene                | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2-Dibromo-3-chloropropane           | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2-Dibromoethane                     | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2-Dichlorobenzene                   | ND            | 2.0       |             |             |                |          |                |                |                 |          | U            |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                           |        |           |      |           |             |        |          |                |             |        |          |      |
|---------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                 | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units: | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1185     |      |
| Client ID:                | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     |        | SW5030C  | Analysis Date: | 4/8/2014    | SeqNo: | 19961    |      |
| Analyte                   |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2-Dichloroethane        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3,5-Trimethylbenzene    |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dioxane               |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2,2-Dichloropropane       |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2-Butanone                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U*   |
| 2-Chloroethyl vinyl ether |        | ND        | 4.0  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorotoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 2-Hexanone                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Propanol                |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorotoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Isopropyltoluene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| 4-Methyl-2-pentanone      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Acetone                   |        | 2.8       | 5.0  |           |             |        |          |                |             |        |          | J*   |
| Bromobenzene              |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromochloromethane        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromodichloromethane      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromoform                 |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Bromomethane              |        | ND        | 4.0  |           |             |        |          |                |             |        |          | U    |
| Carbon disulfide          |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Carbon tetrachloride      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chlorobenzene             |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chlorodifluoromethane     |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                          |        |           |      |           |             |        |          |                |             |        |          |      |
|--------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                | MB-799 | SampType: | MBLK | TestCode: | 8260_W      | Units: | µg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1185     |      |
| Client ID:               | PBW    | Batch ID: | 799  | TestNo:   | SW8260C     |        | SW5030C  | Analysis Date: | 4/8/2014    | SeqNo: | 19961    |      |
| Analyte                  |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chloroethane             |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform               |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane            |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene   |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane              |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane     |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Diisopropyl ether        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| Freon-114                |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene      |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether  |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride       |        | 4.4       | 2.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| n-Propylbenzene          |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene           |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene         |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol          |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene        |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene |        | ND        | 2.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 799

|                            |        |           |      |           |         |           |             |                |          |           |             |      |          |      |
|----------------------------|--------|-----------|------|-----------|---------|-----------|-------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID                  | MB-799 | SampType: | MBLK | TestCode: | 8260_W  | Units:    | µg/L        | Prep Date:     | 4/8/2014 | RunNo:    | 1185        |      |          |      |
| Client ID:                 | PBW    | Batch ID: | 799  | TestNo:   | SW8260C |           | SW5030C     | Analysis Date: | 4/8/2014 | SeqNo:    | 19961       |      |          |      |
| Analyte                    |        | Result    |      | PQL       |         | SPK value | SPK Ref Val | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| trans-1,3-Dichloropropene  |        | ND        |      | 2.0       |         |           |             |                |          |           |             |      |          | U    |
| Trichloroethene            |        | ND        |      | 2.0       |         |           |             |                |          |           |             |      |          | U    |
| Trichlorofluoromethane     |        | ND        |      | 2.0       |         |           |             |                |          |           |             |      |          | U    |
| Vinyl acetate              |        | ND        |      | 2.0       |         |           |             |                |          |           |             |      |          | U    |
| Vinyl chloride             |        | ND        |      | 2.0       |         |           |             |                |          |           |             |      |          | U    |
| Surr: 4-Bromofluorobenzene |        | 49        |      |           |         | 50.00     |             | 98.8           | 70       | 128       |             |      |          |      |
| Surr: Dibromofluoromethane |        | 50        |      |           |         | 50.00     |             | 100            | 75       | 129       |             |      |          |      |
| Surr: Toluene-d8           |        | 50        |      |           |         | 50.00     |             | 101            | 70       | 124       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 802

|            |            |           |        |           |             |        |          |                |             |        |          |      |
|------------|------------|-----------|--------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID  | MBW040814A | SampType: | MBLK   | TestCode: | ICPSCAN_W   | Units: | mg/L     | Prep Date:     | 4/8/2014    | RunNo: | 1192     |      |
| Client ID: | PBW        | Batch ID: | 802    | TestNo:   | E200.7      |        | SW3010A  | Analysis Date: | 4/8/2014    | SeqNo: | 20096    |      |
| Analyte    |            | Result    | PQL    | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Arsenic    |            | ND        | 0.0250 |           |             |        |          |                |             |        |          | U    |
| Barium     |            | ND        | 0.0200 |           |             |        |          |                |             |        |          | U    |
| Cadmium    |            | ND        | 0.0100 |           |             |        |          |                |             |        |          | U    |
| Chromium   |            | ND        | 0.0200 |           |             |        |          |                |             |        |          | U    |
| Lead       |            | ND        | 0.0150 |           |             |        |          |                |             |        |          | U    |
| Selenium   |            | ND        | 0.0250 |           |             |        |          |                |             |        |          | U    |
| Silver     |            | ND        | 0.0200 |           |             |        |          |                |             |        |          | U    |

|                 |               |                |                     |                         |                     |             |           |             |      |          |      |
|-----------------|---------------|----------------|---------------------|-------------------------|---------------------|-------------|-----------|-------------|------|----------|------|
| Sample ID       | LCSW040814A   | SampType: LCS  | TestCode: ICPSCAN_W | Units: mg/L             | Prep Date: 4/8/2014 | RunNo: 1192 |           |             |      |          |      |
| Client ID: LCSW | Batch ID: 802 | TestNo: E200.7 | SW3010A             | Analysis Date: 4/8/2014 | SeqNo: 20097        |             |           |             |      |          |      |
| Analyte         | Result        | PQL            | SPK value           | SPK Ref Val             | %REC                | LowLimit    | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic         | 2.04          | 0.0250         | 2.000               | 0                       | 102                 | 85          | 115       |             |      |          |      |
| Barium          | 1.99          | 0.0200         | 2.000               | 0                       | 99.5                | 85          | 115       |             |      |          |      |
| Cadmium         | 2.03          | 0.0100         | 2.000               | 0                       | 101                 | 85          | 115       |             |      |          |      |
| Chromium        | 2.04          | 0.0200         | 2.000               | 0                       | 102                 | 85          | 115       |             |      |          |      |
| Lead            | 2.03          | 0.0150         | 2.000               | 0                       | 102                 | 85          | 115       |             |      |          |      |
| Selenium        | 2.04          | 0.0250         | 2.000               | 0                       | 102                 | 85          | 115       |             |      |          |      |
| Silver          | 1.99          | 0.0200         | 2.000               | 0                       | 99.5                | 85          | 115       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 802

|            |                |           |           |             |           |          |           |                |          |          |       |
|------------|----------------|-----------|-----------|-------------|-----------|----------|-----------|----------------|----------|----------|-------|
| Sample ID  | 1404056-001CMS | SampType: | MS        | TestCode:   | ICPSCAN_W | Units:   | mg/L      | Prep Date:     | 4/8/2014 | RunNo:   | 1192  |
| Client ID: | BatchQC        | Batch ID: | 802       | TestNo:     | E200.7    | SW3010A  |           | Analysis Date: | 4/8/2014 | SeqNo:   | 20102 |
| Analyte    | Result         | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Arsenic    | 1.08           | 0.0250    | 1.000     | 0           | 108       | 70       | 130       |                |          |          |       |
| Barium     | 1.20           | 0.0200    | 1.000     | 0.1892      | 101       | 66       | 135       |                |          |          |       |
| Cadmium    | 1.06           | 0.0100    | 1.000     | 0           | 106       | 70       | 130       |                |          |          |       |
| Chromium   | 1.05           | 0.0200    | 1.000     | 0.006878    | 104       | 69       | 131       |                |          |          |       |
| Lead       | 1.12           | 0.0150    | 1.000     | 0.1141      | 101       | 68       | 128       |                |          |          |       |
| Selenium   | 1.06           | 0.0250    | 1.000     | 0           | 106       | 70       | 130       |                |          |          |       |
| Silver     | 0.961          | 0.0200    | 1.000     | 0           | 96.1      | 60       | 125       |                |          |          |       |

|            |                 |           |           |             |           |          |           |                |          |          |       |
|------------|-----------------|-----------|-----------|-------------|-----------|----------|-----------|----------------|----------|----------|-------|
| Sample ID  | 1404056-001CMSD | SampType: | MSD       | TestCode:   | ICPSCAN_W | Units:   | mg/L      | Prep Date:     | 4/8/2014 | RunNo:   | 1192  |
| Client ID: | BatchQC         | Batch ID: | 802       | TestNo:     | E200.7    | SW3010A  |           | Analysis Date: | 4/8/2014 | SeqNo:   | 20103 |
| Analyte    | Result          | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Arsenic    | 1.08            | 0.0250    | 1.000     | 0           | 108       | 70       | 130       | 1.082          | 0.251    | 20       |       |
| Barium     | 1.19            | 0.0200    | 1.000     | 0.1892      | 100       | 66       | 135       | 1.195          | 0.187    | 20       |       |
| Cadmium    | 1.06            | 0.0100    | 1.000     | 0           | 106       | 70       | 130       | 1.063          | 0.0395   | 20       |       |
| Chromium   | 1.05            | 0.0200    | 1.000     | 0.006878    | 104       | 69       | 131       | 1.048          | 0.247    | 20       |       |
| Lead       | 1.12            | 0.0150    | 1.000     | 0.1141      | 101       | 68       | 128       | 1.119          | 0.441    | 20       |       |
| Selenium   | 1.06            | 0.0250    | 1.000     | 0           | 106       | 70       | 130       | 1.057          | 0.297    | 20       |       |
| Silver     | 0.955           | 0.0200    | 1.000     | 0           | 95.5      | 60       | 125       | 0.9609         | 0.620    | 20       |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 806

|              |        |           |      |           |             |         |          |                |             |        |          |      |
|--------------|--------|-----------|------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID    | MB-806 | SampType: | MBLK | TestCode: | 8082_W      | Units:  | µg/L     | Prep Date:     | 4/9/2014    | RunNo: | 1223     |      |
| Client ID:   | PBW    | Batch ID: | 806  | TestNo:   | SW8082A     | SW3510C |          | Analysis Date: | 4/9/2014    | SeqNo: | 20627    |      |
| Analyte      |        | Result    | PQL  | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Aroclor 1016 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1221 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1232 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1242 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1248 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1254 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1260 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1262 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Aroclor 1268 |        | ND        | 0.50 |           |             |         |          |                |             |        |          | U    |
| Surr: DCB    |        | 0.37      |      | 0.5000    |             | 73.5    | 15       | 147            |             |        |          |      |
| Surr: TCX    |        | 0.48      |      | 0.5000    |             | 95.2    | 14       | 144            |             |        |          |      |

|              |         |           |           |             |         |          |           |                |          |          |       |
|--------------|---------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|-------|
| Sample ID    | LCS-806 | SampType: | LCS       | TestCode:   | 8082_W  | Units:   | µg/L      | Prep Date:     | 4/9/2014 | RunNo:   | 1223  |
| Client ID:   | LCSW    | Batch ID: | 806       | TestNo:     | SW8082A | SW3510C  |           | Analysis Date: | 4/9/2014 | SeqNo:   | 20628 |
| Analyte      | Result  | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Aroclor 1248 | 5.6     | 0.50      | 5.000     | 0           | 112     | 40       | 140       |                |          |          |       |
| Surr: DCB    | 0.48    |           | 0.5000    |             | 96.6    | 15       | 147       |                |          |          |       |
| Surr: TCX    | 0.53    |           | 0.5000    |             | 107     | 14       | 144       |                |          |          |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** 819

|                            |               |                 |                  |                         |                     |             |           |             |      |          |      |
|----------------------------|---------------|-----------------|------------------|-------------------------|---------------------|-------------|-----------|-------------|------|----------|------|
| Sample ID                  | LCS-819       | SampType: LCS   | TestCode: 8260_W | Units: µg/L             | Prep Date: 4/9/2014 | RunNo: 1203 |           |             |      |          |      |
| Client ID: LCSW            | Batch ID: 819 | TestNo: SW8260C | SW5030C          | Analysis Date: 4/9/2014 | SeqNo: 20694        |             |           |             |      |          |      |
| Analyte                    | Result        | PQL             | SPK value        | SPK Ref Val             | %REC                | LowLimit    | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 51            | 2.0             | 50.00            | 0                       | 101                 | 30          | 137       |             |      |          |      |
| Ethylbenzene               | 52            | 2.0             | 50.00            | 0                       | 105                 | 46          | 134       |             |      |          |      |
| Toluene                    | 51            | 2.0             | 50.00            | 0                       | 101                 | 32          | 126       |             |      |          |      |
| Surr: 4-Bromofluorobenzene | 49            |                 | 50.00            |                         | 97.9                | 70          | 128       |             |      |          |      |
| Surr: Dibromofluoromethane | 51            |                 | 50.00            |                         | 102                 | 75          | 129       |             |      |          |      |
| Surr: Toluene-d8           | 51            |                 | 50.00            |                         | 101                 | 70          | 124       |             |      |          |      |

|                            |        |           |      |           |             |         |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-819 | SampType: | MBLK | TestCode: | 8260_W      | Units:  | µg/L     | Prep Date:     | 4/9/2014    | RunNo: | 1203     |      |
| Client ID:                 | PBW    | Batch ID: | 819  | TestNo:   | SW8260C     | SW5030C |          | Analysis Date: | 4/9/2014    | SeqNo: | 20695    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene     |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| Benzene                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| Ethylbenzene               |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| m,p-Xylene                 |        | ND        | 4.0  |           |             |         |          |                |             |        |          | U    |
| Naphthalene                |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| o-Xylene                   |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| Styrene                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| Toluene                    |        | ND        | 2.0  |           |             |         |          |                |             |        |          | U    |
| Surr: 4-Bromofluorobenzene |        | 48        |      | 50.00     |             | 97.0    | 70       | 128            |             |        |          |      |
| Surr: Dibromofluoromethane |        | 50        |      | 50.00     |             | 100     | 75       | 129            |             |        |          |      |
| Surr: Toluene-d8           |        | 50        |      | 50.00     |             | 99.6    | 70       | 124            |             |        |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** R1191

|              |                 |           |       |           |           |             |      |                |           |             |       |          |      |
|--------------|-----------------|-----------|-------|-----------|-----------|-------------|------|----------------|-----------|-------------|-------|----------|------|
| Sample ID    | 1404056-001BDUP | SampType: | DUP   | TestCode: | IGN_212_W | Units:      | °F   | Prep Date:     |           | RunNo:      | 1191  |          |      |
| Client ID:   | BatchQC         | Batch ID: | R1191 | TestNo:   | SW1010A   |             |      | Analysis Date: | 4/8/2014  | SeqNo:      | 20111 |          |      |
| Analyte      |                 | Result    |       | PQL       | SPK value | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Ignitability |                 | ND        |       | 212       |           |             |      |                |           | 0           | 0     | 0        | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** R1193

|                                            |                 |           |              |           |               |             |             |                |                 |             |                    |
|--------------------------------------------|-----------------|-----------|--------------|-----------|---------------|-------------|-------------|----------------|-----------------|-------------|--------------------|
| Sample ID                                  | <b>MB-R1193</b> | SampType: | <b>MBLK</b>  | TestCode: | <b>TSS_W</b>  | Units:      | <b>mg/L</b> | Prep Date:     |                 | RunNo:      | <b>1193</b>        |
| Client ID:                                 | <b>PBW</b>      | Batch ID: | <b>R1193</b> | TestNo:   | <b>M2540D</b> |             |             | Analysis Date: | <b>4/8/2014</b> | SeqNo:      | <b>20475</b>       |
| Analyte                                    |                 | Result    |              | PQL       | SPK value     | SPK Ref Val | %REC        | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Suspended Solids (Residue, Non-Filterable) |                 | ND        |              | 2.50      |               |             |             |                |                 |             | U                  |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** R1193

|                                              |                 |           |              |           |               |             |             |                |                 |             |                    |
|----------------------------------------------|-----------------|-----------|--------------|-----------|---------------|-------------|-------------|----------------|-----------------|-------------|--------------------|
| Sample ID                                    | <b>MB-R1193</b> | SampType: | <b>MBLK</b>  | TestCode: | <b>TDS_W</b>  | Units:      | <b>mg/L</b> | Prep Date:     |                 | RunNo:      | <b>1193</b>        |
| Client ID:                                   | <b>PBW</b>      | Batch ID: | <b>R1193</b> | TestNo:   | <b>M2540C</b> |             |             | Analysis Date: | <b>4/8/2014</b> | SeqNo:      | <b>20472</b>       |
| Analyte                                      |                 | Result    |              | PQL       | SPK value     | SPK Ref Val | %REC        | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total Dissolved Solids (Residue, Filterable) |                 | ND        |              | 10.0      |               |             |             |                |                 |             | DU                 |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404043

09-Apr-14

**Client:** Envirotrac  
**Project:** National Grid, Williamsburg

**BatchID:** R1228

|                             |          |           |       |           |           |             |      |                |          |           |             |      |          |      |
|-----------------------------|----------|-----------|-------|-----------|-----------|-------------|------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID                   | MB-R1228 | SampType: | MBLK  | TestCode: | TOX_W     | Units:      | mg/L | Prep Date:     |          | RunNo:    | 1228        |      |          |      |
| Client ID:                  | PBW      | Batch ID: | R1228 | TestNo:   | SW9020B   |             |      | Analysis Date: | 4/9/2014 | SeqNo:    | 20705       |      |          |      |
| Analyte                     |          | Result    |       | PQL       | SPK value | SPK Ref Val |      | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Halides (TOX) |          | ND        |       | 3.00      |           |             |      |                |          |           |             |      |          | U    |

|                             |           |           |       |           |           |             |      |                |          |           |             |      |          |      |
|-----------------------------|-----------|-----------|-------|-----------|-----------|-------------|------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID                   | LCS-R1228 | SampType: | LCS   | TestCode: | TOX_W     | Units:      | mg/L | Prep Date:     |          | RunNo:    | 1228        |      |          |      |
| Client ID:                  | LCSW      | Batch ID: | R1228 | TestNo:   | SW9020B   |             |      | Analysis Date: | 4/9/2014 | SeqNo:    | 20706       |      |          |      |
| Analyte                     |           | Result    |       | PQL       | SPK value | SPK Ref Val |      | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Organic Halides (TOX) |           | 30.8      |       | 3.00      | 31.50     | 0           |      | 97.8           | 72       | 123       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



PROFILE LETTER

April 21, 2014

John Dull  
Innovative Recycling Tech.  
690 North Queens Avenue  
Lindenhurst, NY 11757

Dear John Dull:

The following waste stream(s) are approved:

| <u>Approval Code</u> | <u>Generator/Material</u>                        |
|----------------------|--------------------------------------------------|
| P041814004BZ         | Former Williamsburg Works MGP Site<br>oily water |

In accordance with 40 CFR 264.12 "Required Notice" and State(s) equivalent regulations, Tradebe is informing the waste Generator that Tradebe Treatment and Recycling Northeast, LLC has the appropriate permit(s) for the above listed waste stream(s) and will accept the waste stream(s) as described by the Generator/Broker.

Please contact our Customer Service Department at (888) 276-0887 to schedule a pick-up or if you have any questions or comments regarding your waste stream. Thank you for the opportunity to serve your environmental needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick Baker", is written over a light gray rectangular background.

Rick Baker  
Environmental Manager

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-------------------|-----------------------------|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                | 1. Generator ID Number<br><b>NYD986872265</b> | 2. Page 1 of<br><b>1</b>                                                                                                                  | 3. Emergency Response Phone<br><b>516-816-4765</b> | 4. Manifest Tracking Number<br><b>011980123 JJK</b> |                   |                             |
| 5. Generator's Name and Mailing Address<br><b>The Brooklyn Union Gas Co. d/b/a National Grid NY<br/>One Metro Tech Center<br/>Brooklyn, NY 11201</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                               | Generator's Site Address (if different than mailing address)<br><b>Former Williamsburg Works MPG: 50 Kent Ave.<br/>Brooklyn, NY 11211</b> |                                                    |                                                     |                   |                             |
| Generator's Phone: <b>718-963-5453</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 6. Transporter 1 Company Name<br><b>Tradebe Transportation LLC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                               | U.S. EPA ID Number<br><b>CTD021816889</b>                                                                                                 |                                                    |                                                     |                   |                             |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |                                               | U.S. EPA ID Number                                                                                                                        |                                                    |                                                     |                   |                             |
| 8. Designated Facility Name and Site Address<br><b>Tradebe Treatment &amp; Recycling of Bridgeport, LLC<br/>50 Cross Street<br/>Bridgeport, CT 06610</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                                               | U.S. EPA ID Number<br><b>CTD002593887</b>                                                                                                 |                                                    |                                                     |                   |                             |
| Facility's Phone: <b>800-404-4408</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 9a.<br>HM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) |                                               | 10. Containers                                                                                                                            |                                                    | 11. Total Quantity                                  | 12. Unit Wt./Vol. | 13. Waste Codes             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                               | No.                                                                                                                                       | Type                                               |                                                     |                   |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | X 1. <b>RQ, NA3082, Hazardous Waste Liquid, N.O.S.,<br/>8, PGIII, (D018)(Benzene)<br/>ERG#171</b>              |                                               | <b>XXI</b>                                                                                                                                | <b>TT</b>                                          | <b>5150</b>                                         | <b>G</b>          | <b>D018</b><br><br><b>T</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.                                                                                                             |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.                                                                                                             |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 14. Special Handling Instructions and Additional Information<br><b>9b.1) Approval Code: P041814004BZ</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.<br>I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Generator's/Offor's Printed/Typed Name<br><b>DONALD P CAMPBELL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Signature<br><i>Donald P Campbell</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Month Day Year<br><b>4/24/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 17. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Transporter 1 Printed/Typed Name<br><b>Donald E Zinkowski</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Signature<br><i>Donald E Zinkowski</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Month Day Year<br><b>4/24/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Month Day Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 18. Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 18b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 1. <b>H35</b> 2. 3. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Printed/Typed Name<br><b>Steve Berge</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Signature<br><i>Steve Berge</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |
| Month Day Year<br><b>4/24/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |                                               |                                                                                                                                           |                                                    |                                                     |                   |                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------|-----------------|--|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       | 1. Generator ID Number<br><b>NYD986872265</b>                                                                                                       |  | 2. Page 1 of<br><b>1</b>                                                                                                                  | 3. Emergency Response Phone<br><b>516-816-4766</b> |                                           | 4. Manifest Tracking Number<br><b>011980127 JJK</b> |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       | 5. Generator's Name and Mailing Address<br><b>The Brooklyn Union Gas Co. d/b/a National Grid NY<br/>One MetroTech Center<br/>Brooklyn, NY 11201</b> |  | Generator's Site Address (if different than mailing address)<br><b>Former Williamsburg Works MPG: 50 Kent Ave.<br/>Brooklyn, NY 11241</b> |                                                    |                                           |                                                     |                  |                 |  |
| Generator's Phone: <b>718-963-5463</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       | 6. Transporter 1 Company Name<br><b>Tradebe Transportation LLC</b>                                                                                  |  |                                                                                                                                           |                                                    | U.S. EPA ID Number<br><b>CTD021816889</b> |                                                     |                  |                 |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    | U.S. EPA ID Number                        |                                                     |                  |                 |  |
| 8. Designated Facility Name and Site Address<br><b>Tradebe Treatment &amp; Recycling of Bridgeport, LLC<br/>50 Cross Street<br/>Bridgeport, CT 06610</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    | U.S. EPA ID Number<br><b>CTD002593887</b> |                                                     |                  |                 |  |
| Facility's Phone: <b>800-404-4408</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| GENERATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9a. HM                                                                                                                                                                                                                | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))                                      |  |                                                                                                                                           | 10. Containers                                     |                                           | 11. Total Quantity                                  | 12. Unit WL/Vol. | 13. Waste Codes |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X                                                                                                                                                                                                                     | 1. <b>RQ, NA3082, Hazardous Waste Liquid, N.O.S.,<br/>9, PGIII, (D018)(Benzene)<br/>ERG#171</b>                                                     |  |                                                                                                                                           | <b>xx1 TT</b>                                      |                                           | <b>4700</b>                                         | <b>G</b>         | <b>D018</b>     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       | 2.                                                                                                                                                  |  |                                                                                                                                           |                                                    |                                           |                                                     |                  | <b>T</b>        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       | 3.                                                                                                                                                  |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       | 4.                                                                                                                                                  |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 14. Special Handling Instructions and Additional Information<br><b>9b.1) Approval Code: PQ41814004BZ</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Generator's/Offor's Printed/Typed Name<br><b>DONALD P CAMPBELL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Signature<br><i>Donald P Campbell</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Month Day Year<br><b>4/28/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| TRANSPORTER INT'L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____                                                      |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Transporter signature (for exports only): _____                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| TRANSPORTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Transporter 1 Printed/Typed Name<br><b>Ronald E Zyzkowski</b>                                                                                                                                                         |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Signature<br><i>Ronald E Zyzkowski</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Month Day Year<br><b>4/28/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Month Day Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| DESIGNATED FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18. Discrepancy                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Manifest Reference Number: _____                                                                                                                                                                                      |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                             |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Facility's Phone: _____                                                                                                                                                                                               |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 18c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Month Day Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 1. <b>H105</b> 2. 3. 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Printed/Typed Name<br><b>Joe Burgos</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Signature<br><i>Joe L Burgos</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |
| Month Day Year<br><b>4/28/14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                     |  |                                                                                                                                           |                                                    |                                           |                                                     |                  |                 |  |

# Certificate of Disposal

This is to certify that materials from The Brooklyn Union Gas on hazardous waste manifest number 0119801235A were received at Tradebe Treatment and Recycling of Bridgeport LLC. The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The petroleum and/or solid phase were blended with other materials and burned for its thermal value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon absorption.

If you have any questions or would like to visit our facility, please feel free to contact us at (203) 238- 6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC for your treatment and recovery needs.

4-24-14

Date

Shawn Poling

Shawn Poling  
Facility Manager

# Certificate of Disposal

This is to certify that materials from The Brooklyn Union Gas on hazardous waste manifest number 011980127JK were received at Tradebe Treatment and Recycling of Bridgeport LLC. The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The petroleum and/or solid phase were blended with other materials and burned for its thermal value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon absorption.

If you have any questions or would like to visit our facility, please feel free to contact us at (203) 238- 6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC for your treatment and recovery needs.

4-28-14

Date

Shawn Poling

Shawn Poling  
Facility Manager



*American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: [www.American-Analytical.com](http://www.American-Analytical.com)*

April 08, 2014

Mike Rose  
Envirotrac  
5 Old Dock Road  
Yaphank, NY 11980  
TEL: (631) 924-3001  
FAX (631) 924-5001

RE: National Grid Williamsburg, 50 Kent Ave.,

Order No.: 1404010

Dear Mike Rose:

American Analytical Laboratories, LLC. received 1 sample(s) on 4/1/2014 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at [lbeyer@american-analytical.com](mailto:lbeyer@american-analytical.com).

Sincerely,

Lori Beyer  
Lab Director  
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: [www.American-Analytical.com](http://www.American-Analytical.com)

## Workorder Sample Summary

WO#: 1404010

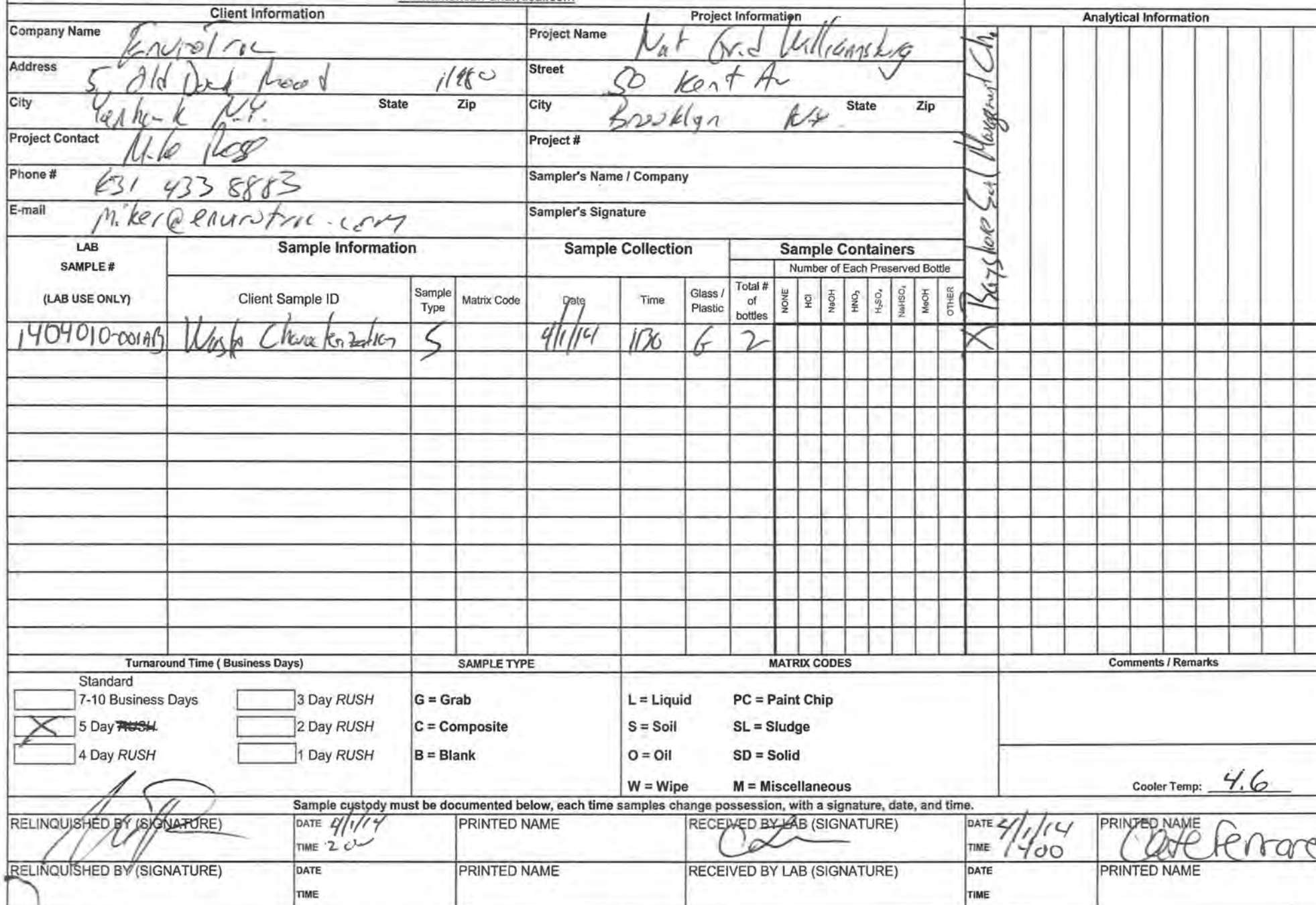
08-Apr-14

---

**CLIENT:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

---

| Lab SampleID | Client Sample ID       | Tag No | Date Collected       | Date Received       | Matrix |
|--------------|------------------------|--------|----------------------|---------------------|--------|
| 1404010-001A | Waste Characterization |        | 4/1/2014 11:30:00 AM | 4/1/2014 2:00:00 PM | Soil   |
| 1404010-001B | Waste Characterization |        | 4/1/2014 11:30:00 AM | 4/1/2014 2:00:00 PM | Soil   |





# Bayshore Soil Management, LLC

75 Crows Mill Road ~ PO Box 290 ~ Keasbey, New Jersey 08832  
Phone: 732.738.6000 ~ Fax: 732.738.0620  
www.bayshorerecycling.com



TPH  
8015 GRO/DRO  
QAM-025 or EPH\*

Homeowners Cert  
Signed

Total VOC's  
8260B

Total SVOC's  
8270C

Total PCB's  
8080

Total Metals PPM  
6010B

Sulfur  
See Sampling  
Below

Paint Filter  
9095

Mercury  
7471

## Petroleum Contaminated Soils

### Residential Approval

|                                                           |                                                                |   |  |  |  |  |  |  |  |
|-----------------------------------------------------------|----------------------------------------------------------------|---|--|--|--|--|--|--|--|
| <input type="checkbox"/> Residential Up to 20 Cubic Yards | X                                                              | X |  |  |  |  |  |  |  |
| <input type="checkbox"/> Residential Above 20 Cubic Yards | Follow Criteria Set Forth Under Commercial/Industrial Approval |   |  |  |  |  |  |  |  |

### Commercial/Industrial Approval

|                                                                   |   |  |   |  |  |   |  |   |   |
|-------------------------------------------------------------------|---|--|---|--|--|---|--|---|---|
| <input type="checkbox"/> Approval Up to 100 Cubic Yards           | X |  | X |  |  | X |  | X | X |
| <input type="checkbox"/> Per every 100 Cubic Yards after Approval | X |  |   |  |  |   |  |   |   |
| <input type="checkbox"/> Per every 800 Cubic Yards after Approval | X |  | X |  |  | X |  | X | X |

## Coal Tar / MGP Soils

|                                                                   |   |  |   |   |   |   |   |  |   |
|-------------------------------------------------------------------|---|--|---|---|---|---|---|--|---|
| <input type="checkbox"/> Approval (Up to 500 Cubic Yards)         | X |  | X | X | X | X | X |  | X |
| <input type="checkbox"/> Per every 500 Cubic Yards after Approval | X |  | X | X | X | X | X |  | X |

## Sampling (See Note Below)

### Petroleum Contaminated Soils

|        |  |    |  |  |    |  |    |    |
|--------|--|----|--|--|----|--|----|----|
| C5-100 |  | C8 |  |  | C8 |  | C8 | C8 |
|--------|--|----|--|--|----|--|----|----|

### Coal Tar / MGP Soils

|        |  |        |        |        |        |        |  |        |
|--------|--|--------|--------|--------|--------|--------|--|--------|
| C5-500 |  | C5-500 | C5-500 | C5-500 | C5-500 | C5-500 |  | C5-500 |
|--------|--|--------|--------|--------|--------|--------|--|--------|

### Sulfur:

Accepted Methodologies: ASTM D129, ASTM 3176, 3177, 4239 and D2622 (Methods 426C, 428A); EPA SW-846 6010B, or 6020

### TPH:

Accepted Methodologies for Diesel Range contamination: 8015 DRO, QAM-025, EPH; Gasoline range contamination: 8015 GRO

### Sampling Note:

- ☐ C5-100: A "representative sample" of every 20 Cubic Yards composited for every 100 Cubic Yards (150 Tons)
- ☐ C5-500: A "representative sample" of every 100 Cubic Yards composited for every 500 Cubic Yards (750 Tons)
- ☐ C-8: A "representative sample" of every 100 Cubic Yard composited for every 800 Cubic Yards (1200 Tons)

\* Acceptance of all projects are subject to the completion and review of a completed "PROFILE SHEET", the criteria noted above, and approval as granted by Bayshore Soil Management, LLC.

\* Sampling analysis for "Historic Fill" will include parameters listed in the NJSRS and TPH

\* At the discretion of the facility, additional lab analysis may be required for project acceptance. Soils originating from substations/generating stations, analysis for PCBs and SVOCs are requested.

\* If analytical demonstrates an analyte concentration that exceeds the RCRA 20X's Rule, BSM will require a TCLP for the analyte prior to acceptance.

\* It should be noted that soil with moisture content in excess of 18% per ASTM Standard Test Method D 2216-05, will be subject to a surcharge.

\* The amount of debris acceptable is 1% by volume; and any stone, brick, block and/or concrete should be 12 inch minus.



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## Sample Log-In Check List

Client Name: **ENVIROTRAC**

Work Order Number: **1404010**

RcptNo: **1**

Logged by: **Cate Ferrara** **4/1/2014 2:00:00 PM**

Completed By: **Cate Ferrara** **4/1/2014**

Reviewed By: **Lori Beyer** **4/1/2014 4:30:47 PM**

*C Ferrara*  
*C Ferrara*  
*Lori Beyer*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☐ No ☒  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:

Sample was not collected according to Method 5035A.

### Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
|-----------|---------|-----------|-------------|---------|-----------|-----------|



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## Case Narrative

WO#: 1404010  
Date: 4/8/2014

---

**CLIENT:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

---

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A via the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method.

Volatile LCS are analyzed with preservatives - HCL/NaHSO<sub>4</sub>/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram. Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, SM 4500-SO<sub>3</sub> B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTM C1152, Water Soluble Chloride by ASTM C1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. Or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



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## Definition Only

WO#: 1404010  
Date: 4/8/2014

### Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything  $<10\times$  the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

\* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be  $>20\%$ .

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

M - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

**American Analytical Laboratories, LLC.****Date:** 08-Apr-14**ELAP ID :** 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001A                                   |                          |                        |

**Certificate of Results**

| Analyses                              | Sample Result | LOD  | LOQ            | Qual           | Units       | DF | Date/Time Analyzed  |
|---------------------------------------|---------------|------|----------------|----------------|-------------|----|---------------------|
| <b>VOLATILE SW-846 METHOD 8260</b>    |               |      | <b>SW8260C</b> | <b>SW5035A</b> | Analyst: LA |    |                     |
| 1,1,1,2-Tetrachloroethane             | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1,1-Trichloroethane                 | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1,2,2-Tetrachloroethane             | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1,2-Trichloroethane                 | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1-Dichloroethane                    | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1-Dichloroethene                    | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,1-Dichloropropene                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2,3-Trichlorobenzene                | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2,3-Trichloropropane                | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2,4,5-Tetramethylbenzene            | 36            | 1.25 | 6.3            | *m             | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2,4-Trichlorobenzene                | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2,4-Trimethylbenzene                | 53            | 1.25 | 6.3            |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2-Dibromo-3-chloropropane           | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2-Dibromoethane                     | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2-Dichlorobenzene                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2-Dichloroethane                    | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,2-Dichloropropane                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,3,5-Trimethylbenzene                | 17            | 1.25 | 6.3            |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,3-Dichlorobenzene                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,3-dichloropropane                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,4-Dichlorobenzene                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 1,4-Dioxane                           | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2,2-Dichloropropane                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2-Butanone                            | ND            | 6.27 | 13             | U*             | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2-Chloroethyl vinyl ether             | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2-Chlorotoluene                       | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2-Hexanone                            | ND            | 6.27 | 13             | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 2-Propanol                            | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 4-Chlorotoluene                       | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 4-Isopropyltoluene                    | 2.1           | 1.25 | 6.3            | J              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| 4-Methyl-2-pentanone                  | ND            | 6.27 | 13             | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |
| Acetone                               | 6.0           | 1.57 | 13             | BJ*            | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM |

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**American Analytical Laboratories, LLC.****Date:** 08-Apr-14**ELAP ID : 11418****CLIENT:** Envirotrac**Client Sample ID:** Waste Characterization**Lab Order:** 1404010**Collection Date:** 4/1/2014 11:30:00 AM**Project:** National Grid Williamsburg, 50 Kent Ave., Broo**Matrix:** SOIL**Lab ID:** 1404010-001A**Certificate of Results**

| Analyses                           | Sample Result | LOD  | LOQ            | Qual           | Units       | DF | Date/Time Analyzed   |
|------------------------------------|---------------|------|----------------|----------------|-------------|----|----------------------|
| <b>VOLATILE SW-846 METHOD 8260</b> |               |      | <b>SW8260C</b> | <b>SW5035A</b> | Analyst: LA |    |                      |
| Benzene                            | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Bromobenzene                       | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Bromochloromethane                 | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Bromodichloromethane               | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Bromoform                          | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Bromomethane                       | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Carbon disulfide                   | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Carbon tetrachloride               | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Chlorobenzene                      | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Chlorodifluoromethane              | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Chloroethane                       | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Chloroform                         | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Chloromethane                      | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| cis-1,2-Dichloroethene             | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| cis-1,3-Dichloropropene            | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Cyclohexane                        | ND            | 2.51 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Dibromochloromethane               | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Dibromomethane                     | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Dichlorodifluoromethane            | ND            | 1.25 | 6.3            | U*             | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Diisopropyl ether                  | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Ethanol                            | ND            | 12.5 | 25             | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Ethylbenzene                       | 35            | 1.25 | 6.3            |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Freon-114                          | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Hexachlorobutadiene                | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Isopropylbenzene                   | 3.5           | 1.25 | 6.3            | J              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| m,p-Xylene                         | 46            | 2.51 | 13             |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Methyl Acetate                     | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Methyl tert-butyl ether            | ND            | 1.25 | 6.3            | U              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Methylene chloride                 | 16            | 1.25 | 6.3            | B*             | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| n-Butylbenzene                     | 13            | 1.25 | 6.3            |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| n-Propylbenzene                    | 3.2           | 1.25 | 6.3            | J              | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |
| Naphthalene                        | 4100          | 61.3 | 310            | D              | µg/Kg-dry   | 50 | 4/7/2014 11:35:00 PM |
| o-Xylene                           | 26            | 1.25 | 6.3            |                | µg/Kg-dry   | 1  | 4/4/2014 2:43:00 PM  |

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**American Analytical Laboratories, LLC.****Date:** 08-Apr-14**ELAP ID :** 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001A                                   |                          |                        |

**Certificate of Results**

| Analyses                           | Sample Result | LOD  | LOQ            | Qual | Units          | DF | Date/Time Analyzed  |
|------------------------------------|---------------|------|----------------|------|----------------|----|---------------------|
| <b>VOLATILE SW-846 METHOD 8260</b> |               |      | <b>SW8260C</b> |      | <b>SW5035A</b> |    | Analyst: LA         |
| p-Diethylbenzene                   | 18            | 1.25 | 6.3            |      | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| p-Ethyltoluene                     | 46            | 1.25 | 6.3            |      | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| sec-Butylbenzene                   | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Styrene                            | 3.7           | 1.25 | 6.3            | J    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| t-Butyl alcohol                    | ND            | 3.13 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| tert-Butylbenzene                  | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Tetrachloroethene                  | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Toluene                            | 5.5           | 1.25 | 6.3            | J    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| trans-1,2-Dichloroethene           | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| trans-1,3-Dichloropropene          | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Trichloroethene                    | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Trichlorofluoromethane             | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Vinyl acetate                      | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Vinyl chloride                     | ND            | 1.25 | 6.3            | U    | µg/Kg-dry      | 1  | 4/4/2014 2:43:00 PM |
| Surr: 4-Bromofluorobenzene         | 98.5          | 0    | 56-133         |      | %REC           | 1  | 4/4/2014 2:43:00 PM |
| Surr: Dibromofluoromethane         | 95.6          | 0    | 60-132         |      | %REC           | 1  | 4/4/2014 2:43:00 PM |
| Surr: Toluene-d8                   | 97.9          | 0    | 69-125         |      | %REC           | 1  | 4/4/2014 2:43:00 PM |

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**American Analytical Laboratories, LLC.**

Date: 08-Apr-14

ELAP ID : 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001B                                   |                          |                        |

**Certificate of Results**

| Analyses                                    | Sample Result | LOD  | LOQ    | Qual | Units     | DF | Date/Time Analyzed   |
|---------------------------------------------|---------------|------|--------|------|-----------|----|----------------------|
| <b>MERCURY</b>                              |               |      |        |      |           |    | Analyst: <b>JP</b>   |
| Mercury                                     | 0.0302        | 0.01 | 0.0148 |      | mg/Kg-dry | 1  | 4/3/2014 1:37:00 PM  |
| <b>TOTAL DRO AS #2 FUEL (C8-C44)</b>        |               |      |        |      |           |    | Analyst: <b>MH</b>   |
| Total DRO TPH                               | 390           | 0.62 | 6.2    |      | mg/Kg-dry | 1  | 4/5/2014 2:39:00 PM  |
| Surr: o-Terphenyl                           | 54.4          | 0    | 20-140 |      | %REC      | 1  | 4/5/2014 2:39:00 PM  |
| <b>TOTAL GRO AS GASOLINE (C6-C10)</b>       |               |      |        |      |           |    | Analyst: <b>LA</b>   |
| Total GRO TPH                               | ND            | 6.30 | 12.6   | U    | mg/Kg-dry | 1  | 4/3/2014 2:13:00 PM  |
| Surr: Toluene-d8                            | 70.0          | 0    | 63-135 |      | %REC      | 1  | 4/3/2014 2:13:00 PM  |
| <b>PCB'S AS AROCLORS SW-846 METHOD 8082</b> |               |      |        |      |           |    | Analyst: <b>SB</b>   |
| Aroclor 1016                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1221                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1232                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1242                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1248                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1254                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1260                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1262                                | ND            | 12.4 | 25     | U    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Aroclor 1268                                | 15            | 12.4 | 25     | J    | µg/Kg-dry | 1  | 4/4/2014 4:31:00 PM  |
| Surr: DCB                                   | 41.7          | 0    | 12-144 |      | %REC      | 1  | 4/4/2014 4:31:00 PM  |
| Surr: TCX                                   | 40.3          | 0    | 13-145 |      | %REC      | 1  | 4/4/2014 4:31:00 PM  |
| <b>PERCENT MOISTURE</b>                     |               |      |        |      |           |    | Analyst: <b>CF</b>   |
| Percent Moisture                            | 21            | 1    | 1.0    |      | wt%       | 1  | 4/3/2014 10:00:00 AM |
| <b>TOTAL METALS</b>                         |               |      |        |      |           |    | Analyst: <b>JP</b>   |
| Aluminum                                    | 3730          | 0.12 | 0.497  |      | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Antimony                                    | ND            | 0.25 | 0.622  | U    | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Arsenic                                     | 2.02          | 0.25 | 0.622  |      | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Barium                                      | 26.9          | 0.25 | 0.497  |      | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Beryllium                                   | ND            | 0.12 | 0.497  | U    | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Cadmium                                     | ND            | 0.12 | 0.497  | U    | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Calcium                                     | 2580          | 0.25 | 0.622  |      | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |
| Chromium                                    | 13.4          | 0.12 | 0.497  |      | mg/Kg-dry | 1  | 4/3/2014 2:18:27 PM  |

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Date: 08-Apr-14

ELAP ID : 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001B                                   |                          |                        |

**Certificate of Results**

| Analyses                               | Sample Result | LOD  | LOQ            | Qual | Units          | DF | Date/Time Analyzed   |
|----------------------------------------|---------------|------|----------------|------|----------------|----|----------------------|
| <b>TOTAL METALS</b>                    |               |      | <b>SW6010C</b> |      | <b>SW3050B</b> |    | Analyst: <b>JP</b>   |
| Cobalt                                 | 4.65          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Copper                                 | 11.1          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Iron                                   | 2380          | 0.25 | 0.497          |      | mg/Kg-dry      | 10 | 4/3/2014 3:03:24 PM  |
| Lead                                   | 14.5          | 0.25 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Magnesium                              | 1680          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Manganese                              | 313           | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Nickel                                 | 10.4          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Potassium                              | 949           | 0.25 | 0.622          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Selenium                               | ND            | 0.25 | 0.622          | U    | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Silver                                 | ND            | 0.12 | 0.497          | U    | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Sodium                                 | 184           | 0.25 | 0.622          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Thallium                               | ND            | 0.37 | 0.622          | U    | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Vanadium                               | 22.7          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| Zinc                                   | 32.5          | 0.12 | 0.497          |      | mg/Kg-dry      | 1  | 4/3/2014 2:18:27 PM  |
| <b>SEMIVOLATILE SW-846 METHOD 8270</b> |               |      | <b>SW8270D</b> |      | <b>SW3546</b>  |    | Analyst: <b>MH</b>   |
| Biphenyl                               | 1000          | 31.5 | 310            |      | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 1,2,4-Trichlorobenzene                 | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 1,2-Dichlorobenzene                    | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 1,3-Dichlorobenzene                    | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 1,4-Dichlorobenzene                    | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,3,4,6-Tetrachlorophenol              | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4,5-Trichlorophenol                  | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4,6-Trichlorophenol                  | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4-Dichlorophenol                     | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4-Dimethylphenol                     | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4-Dinitrophenol                      | ND            | 62.9 | 630            | U*   | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,4-Dinitrotoluene                     | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2,6-Dinitrotoluene                     | ND            | 62.9 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2-Chloronaphthalene                    | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2-Chlorophenol                         | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |
| 2-Methylnaphthalene                    | 9000          | 315  | 3100           | Dm   | µg/Kg-dry      | 10 | 4/3/2014 2:10:00 PM  |
| 2-Methylphenol                         | ND            | 31.5 | 310            | U    | µg/Kg-dry      | 1  | 4/3/2014 12:41:00 PM |

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**American Analytical Laboratories, LLC.**

Date: 08-Apr-14

ELAP ID : 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001B                                   |                          |                        |

**Certificate of Results**

| Analyses                               | Sample Result | LOD  | LOQ            | Qual | Units         | DF | Date/Time Analyzed   |
|----------------------------------------|---------------|------|----------------|------|---------------|----|----------------------|
| <b>SEMIVOLATILE SW-846 METHOD 8270</b> |               |      | <b>SW8270D</b> |      | <b>SW3546</b> |    | Analyst: <b>MH</b>   |
| 2-Nitroaniline                         | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 2-Nitrophenol                          | ND            | 62.9 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 3+4-Methylphenol                       | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 3,3'-Dichlorobenzidine                 | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 3-Nitroaniline                         | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4,6-Dinitro-2-methylphenol             | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Bromophenyl phenyl ether             | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Chloro-3-methylphenol                | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Chloroaniline                        | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Chlorophenyl phenyl ether            | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Nitroaniline                         | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| 4-Nitrophenol                          | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Acenaphthene                           | 1500          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Acenaphthylene                         | 1900          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Acetophenone                           | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Aniline                                | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Anthracene                             | 1400          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Atrazine                               | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Azobenzene                             | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzaldehyde                           | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzidine                              | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzo(a)anthracene                     | 1400          | 31.5 | 310            | m    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzo(a)pyrene                         | 1100          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzo(b)fluoranthene                   | 680           | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzo(g,h,i)perylene                   | 570           | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzo(k)fluoranthene                   | 760           | 31.5 | 310            | m    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzoic acid                           | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Benzyl alcohol                         | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Bis(2-chloroethoxy)methane             | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Bis(2-chloroethyl)ether                | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Bis(2-chloroisopropyl)ether            | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Bis(2-ethylhexyl)phthalate             | 280           | 31.5 | 310            | J    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Butyl benzyl phthalate                 | 2000          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |

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Date: 08-Apr-14

ELAP ID : 11418

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001B                                   |                          |                        |

**Certificate of Results**

| Analyses                               | Sample Result | LOD  | LOQ            | Qual | Units         | DF | Date/Time Analyzed   |
|----------------------------------------|---------------|------|----------------|------|---------------|----|----------------------|
| <b>SEMIVOLATILE SW-846 METHOD 8270</b> |               |      | <b>SW8270D</b> |      | <b>SW3546</b> |    | Analyst: <b>MH</b>   |
| Caprolactam                            | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Carbazole                              | 390           | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Chrysene                               | 1300          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Di-n-butyl phthalate                   | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Di-n-octyl phthalate                   | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Dibenzo(a,h)anthracene                 | 150           | 31.5 | 310            | J    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Dibenzofuran                           | 840           | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Diethyl phthalate                      | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Dimethyl phthalate                     | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Fluoranthene                           | 2500          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Fluorene                               | 2300          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Hexachlorobenzene                      | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Hexachlorobutadiene                    | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Hexachlorocyclopentadiene              | ND            | 62.9 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Hexachloroethane                       | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Indeno(1,2,3-c,d)pyrene                | 600           | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Isophorone                             | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| N-Nitrosodi-n-propylamine              | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| N-Nitrosodimethylamine                 | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| N-Nitrosodiphenylamine                 | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Naphthalene                            | 26000         | 315  | 3100           | D    | µg/Kg-dry     | 10 | 4/3/2014 2:10:00 PM  |
| Nitrobenzene                           | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Parathion                              | ND            | 62.9 | 630            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Pentachlorophenol                      | ND            | 62.9 | 630            | U*   | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Phenanthrene                           | 6200          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Phenol                                 | ND            | 31.5 | 310            | U    | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Pyrene                                 | 3100          | 31.5 | 310            |      | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Pyridine                               | 73            | 31.5 | 310            | Jm   | µg/Kg-dry     | 1  | 4/3/2014 12:41:00 PM |
| Surr: 2,4,6-Tribromophenol             | 72.6          | 0    | 11-135         |      | %REC          | 1  | 4/3/2014 12:41:00 PM |
| Surr: 2-Fluorobiphenyl                 | 78.2          | 0    | 21-143         |      | %REC          | 1  | 4/3/2014 12:41:00 PM |
| Surr: 2-Fluorophenol                   | 95.9          | 0    | 14-122         |      | %REC          | 1  | 4/3/2014 12:41:00 PM |
| Surr: 4-Terphenyl-d14                  | 76.6          | 0    | 15-137         |      | %REC          | 1  | 4/3/2014 12:41:00 PM |
| Surr: Nitrobenzene-d5                  | 70.6          | 0    | 17-136         |      | %REC          | 1  | 4/3/2014 12:41:00 PM |

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**American Analytical Laboratories, LLC.****Date:** 08-Apr-14**ELAP ID : 11418**

|                   |                                                |                          |                        |
|-------------------|------------------------------------------------|--------------------------|------------------------|
| <b>CLIENT:</b>    | Envirotrac                                     | <b>Client Sample ID:</b> | Waste Characterization |
| <b>Lab Order:</b> | 1404010                                        | <b>Collection Date:</b>  | 4/1/2014 11:30:00 AM   |
| <b>Project:</b>   | National Grid Williamsburg, 50 Kent Ave., Broo | <b>Matrix:</b>           | SOIL                   |
| <b>Lab ID:</b>    | 1404010-001B                                   |                          |                        |

**Certificate of Results**

| Analyses                               | Sample Result | LOD  | LOQ    | Qual | Units     | DF | Date/Time Analyzed   |
|----------------------------------------|---------------|------|--------|------|-----------|----|----------------------|
| <b>SEMIVOLATILE SW-846 METHOD 8270</b> |               |      |        |      |           |    | Analyst: <b>MH</b>   |
| Surr: Phenol-d6                        | 95.3          | 0    | 10-116 |      | %REC      | 1  | 4/3/2014 12:41:00 PM |
| <b>TOTAL SULFUR</b>                    |               |      |        |      |           |    | Analyst: <b>PAV</b>  |
| Sulfur, Total                          | ND            | 3.81 | 12.7   | U    | mg/Kg-dry | 1  | 4/8/2014 12:32:25 PM |

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Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                        |        |           |      |           |           |             |       |                |           |             |       |          |      |
|------------------------|--------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|-------|----------|------|
| Sample ID              | MB-751 | SampType: | MBLK | TestCode: | 8270_S    | Units:      | µg/Kg | Prep Date:     | 4/3/2014  | RunNo:      | 1181  |          |      |
| Client ID:             | PBS    | Batch ID: | 751  | TestNo:   | SW8270D   | SW3546      |       | Analysis Date: | 4/3/2014  | SeqNo:      | 19825 |          |      |
| Analyte                |        | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| 3,3´-Dichlorobenzidine |        | ND        |      | 250       |           |             |       |                |           |             |       |          | U    |
| Atrazine               |        | ND        |      | 250       |           |             |       |                |           |             |       |          | U    |
| Benzaldehyde           |        | ND        |      | 500       |           |             |       |                |           |             |       |          | U    |
| Benzidine              |        | ND        |      | 500       |           |             |       |                |           |             |       |          | U    |
| Caprolactam            |        | ND        |      | 250       |           |             |       |                |           |             |       |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1127     |      |
| Client ID:                  | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     |        | SW3546   | Analysis Date: | 4/3/2014    | SeqNo: | 19707    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Biphenyl                    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,2,4-Trichlorobenzene      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,3,4,6-Tetrachlorophenol   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4,5-Trichlorophenol       |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4,6-Trichlorophenol       |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dichlorophenol          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dimethylphenol          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dinitrophenol           |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| 2,4-Dinitrotoluene          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,6-Dinitrotoluene          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Chloronaphthalene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorophenol              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Methylnaphthalene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Methylphenol              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Nitroaniline              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Nitrophenol               |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 3+4-Methylphenol            |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 3-Nitroaniline              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4,6-Dinitro-2-methylphenol  |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| 4-Bromophenyl phenyl ether  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Chloro-3-methylphenol     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Chloroaniline             |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorophenyl phenyl ether |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1127     |      |
| Client ID:                  | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     |        | SW3546   | Analysis Date: | 4/3/2014    | SeqNo: | 19707    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 4-Nitroaniline              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Nitrophenol               |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Acenaphthene                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Acenaphthylene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Acetophenone                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Aniline                     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Anthracene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Azobenzene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(a)anthracene          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(a)pyrene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(b)fluoranthene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(g,h,i)perylene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(k)fluoranthene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzoic acid                |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Benzyl alcohol              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroethoxy)methane  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroethyl)ether     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroisopropyl)ether |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-ethylhexyl)phthalate  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Butyl benzyl phthalate      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Carbazole                   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Chrysene                    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Di-n-butyl phthalate        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Di-n-octyl phthalate        |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| Dibenzo(a,h)anthracene      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Dibenzofuran                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |        |           |      |           |             |        |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1127     |      |
| Client ID:                 | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     | SW3546 |          | Analysis Date: | 4/3/2014    | SeqNo: | 19707    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Diethyl phthalate          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Dimethyl phthalate         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Fluoranthene               |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Fluorene                   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobenzene          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorocyclopentadiene  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachloroethane           |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Indeno(1,2,3-c,d)pyrene    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Isophorone                 |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodi-n-propylamine  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodimethylamine     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodiphenylamine     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Naphthalene                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Nitrobenzene               |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Parathion                  |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Pentachlorophenol          |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| Phenanthrene               |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Phenol                     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Pyrene                     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Pyridine                   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Surr: 2,4,6-Tribromophenol |        | 1600      |      | 2000      |             | 81.7   | 11       | 135            |             |        |          |      |
| Surr: 2-Fluorobiphenyl     |        | 860       |      | 1000      |             | 86.2   | 21       | 143            |             |        |          |      |
| Surr: 2-Fluorophenol       |        | 2200      |      | 2000      |             | 110    | 14       | 122            |             |        |          |      |
| Surr: 4-Terphenyl-d14      |        | 980       |      | 1000      |             | 98.0   | 15       | 137            |             |        |          |      |
| Surr: Nitrobenzene-d5      |        | 830       |      | 1000      |             | 82.6   | 17       | 136            |             |        |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                 |        |           |      |           |           |             |       |                |           |             |       |          |      |
|-----------------|--------|-----------|------|-----------|-----------|-------------|-------|----------------|-----------|-------------|-------|----------|------|
| Sample ID       | MB-751 | SampType: | MBLK | TestCode: | 8270_S    | Units:      | µg/Kg | Prep Date:     | 4/3/2014  | RunNo:      | 1127  |          |      |
| Client ID:      | PBS    | Batch ID: | 751  | TestNo:   | SW8270D   | SW3546      |       | Analysis Date: | 4/3/2014  | SeqNo:      | 19707 |          |      |
| Analyte         |        | Result    |      | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Surr: Phenol-d6 |        | 2200      |      |           | 2000      |             | 110   | 10             | 116       |             |       |          |      |

|                           |         |               |                  |              |                         |              |           |             |      |          |      |
|---------------------------|---------|---------------|------------------|--------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                 | LCS-751 | SampType: LCS | TestCode: 8270_S | Units: µg/Kg | Prep Date: 4/3/2014     | RunNo: 1127  |           |             |      |          |      |
| Client ID:                | LCSS    | Batch ID: 751 | TestNo: SW8270D  | SW3546       | Analysis Date: 4/3/2014 | SeqNo: 19708 |           |             |      |          |      |
| Analyte                   | Result  | PQL           | SPK value        | SPK Ref Val  | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Biphenyl                  | ND      | 250           |                  | 0            | 0                       | 30           | 130       |             |      |          | U    |
| 1,2,4-Trichlorobenzene    | 1300    | 250           | 2000             | 0            | 66.1                    | 30           | 125       |             |      |          |      |
| 1,2-Dichlorobenzene       | 1400    | 250           | 2000             | 0            | 67.5                    | 24           | 122       |             |      |          |      |
| 1,3-Dichlorobenzene       | 1400    | 250           | 2000             | 0            | 68.4                    | 25           | 125       |             |      |          |      |
| 1,4-Dichlorobenzene       | 1300    | 250           | 2000             | 0            | 64.6                    | 23           | 121       |             |      |          |      |
| 2,3,4,6-Tetrachlorophenol | ND      | 250           |                  | 0            | 0                       | 20           | 135       |             |      |          | U    |
| 2,4,5-Trichlorophenol     | ND      | 250           |                  | 0            | 0                       | 21           | 131       |             |      |          | U    |
| 2,4,6-Trichlorophenol     | 1300    | 250           | 2000             | 0            | 64.1                    | 25           | 130       |             |      |          |      |
| 2,4-Dichlorophenol        | 1300    | 250           | 2000             | 0            | 64.0                    | 31           | 125       |             |      |          |      |
| 2,4-Dimethylphenol        | 1300    | 250           | 2000             | 0            | 64.1                    | 17           | 132       |             |      |          |      |
| 2,4-Dinitrophenol         | 930     | 500           | 2000             | 0            | 46.3                    | 1            | 115       |             |      |          | *    |
| 2,4-Dinitrotoluene        | 1300    | 250           | 2000             | 0            | 63.9                    | 30           | 134       |             |      |          |      |
| 2,6-Dinitrotoluene        | 1200    | 250           | 2000             | 0            | 62.3                    | 24           | 130       |             |      |          |      |
| 2-Chloronaphthalene       | 1400    | 250           | 2000             | 0            | 69.4                    | 30           | 130       |             |      |          |      |
| 2-Chlorophenol            | 1400    | 250           | 2000             | 0            | 71.6                    | 32           | 134       |             |      |          |      |
| 2-Methylnaphthalene       | ND      | 250           |                  | 0            | 0                       | 22           | 128       |             |      |          | U    |
| 2-Methylphenol            | ND      | 250           |                  | 0            | 0                       | 21           | 127       |             |      |          | U    |
| 2-Nitroaniline            | ND      | 250           |                  | 0            | 0                       | 25           | 125       |             |      |          | U    |
| 2-Nitrophenol             | 1300    | 250           | 2000             | 0            | 66.5                    | 16           | 146       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                |           |            |             |                |          |               |                |                 |          |              |
|-----------------------------|----------------|-----------|------------|-------------|----------------|----------|---------------|----------------|-----------------|----------|--------------|
| Sample ID                   | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg</b>  | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1127</b>  |
| Client ID:                  | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19708</b> |
| Analyte                     | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit     | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 3+4-Methylphenol            | ND             | 250       |            | 0           | 0              | 22       | 134           |                |                 |          | U            |
| 3-Nitroaniline              | ND             | 250       |            | 0           | 0              | 20       | 120           |                |                 |          | U            |
| 4,6-Dinitro-2-methylphenol  | 880            | 500       | 2000       | 0           | 43.8           | 11       | 141           |                |                 |          |              |
| 4-Bromophenyl phenyl ether  | 1400           | 250       | 2000       | 0           | 71.3           | 35       | 135           |                |                 |          |              |
| 4-Chloro-3-methylphenol     | 1400           | 250       | 2000       | 0           | 67.5           | 19       | 139           |                |                 |          |              |
| 4-Chloroaniline             | ND             | 250       |            | 0           | 0              | 11       | 121           |                |                 |          | U            |
| 4-Chlorophenyl phenyl ether | 1400           | 250       | 2000       | 0           | 72.5           | 30       | 128           |                |                 |          |              |
| 4-Nitroaniline              | ND             | 250       |            | 0           | 0              | 20       | 120           |                |                 |          | U            |
| 4-Nitrophenol               | 1000           | 500       | 2000       | 0           | 51.9           | 17       | 140           |                |                 |          |              |
| Acenaphthene                | 1400           | 250       | 2000       | 0           | 70.2           | 25       | 137           |                |                 |          |              |
| Acenaphthylene              | 1400           | 250       | 2000       | 0           | 68.3           | 23       | 136           |                |                 |          |              |
| Acetophenone                | ND             | 250       |            | 0           | 0              | 30       | 125           |                |                 |          | U            |
| Aniline                     | ND             | 250       |            | 0           | 0              | 1        | 105           |                |                 |          | U            |
| Anthracene                  | 1400           | 250       | 2000       | 0           | 71.1           | 23       | 150           |                |                 |          |              |
| Azobenzene                  | ND             | 250       |            | 0           | 0              | 20       | 130           |                |                 |          | U            |
| Benzo(a)anthracene          | 1400           | 250       | 2000       | 0           | 67.7           | 31       | 140           |                |                 |          |              |
| Benzo(a)pyrene              | 1400           | 250       | 2000       | 0           | 70.3           | 36       | 136           |                |                 |          |              |
| Benzo(b)fluoranthene        | 1500           | 250       | 2000       | 0           | 73.4           | 30       | 140           |                |                 |          |              |
| Benzo(g,h,i)perylene        | 1400           | 250       | 2000       | 0           | 71.8           | 21       | 143           |                |                 |          |              |
| Benzo(k)fluoranthene        | 1400           | 250       | 2000       | 0           | 70.3           | 30       | 140           |                |                 |          |              |
| Benzoic acid                | ND             | 500       |            | 0           | 0              | 5        | 105           |                |                 |          | U            |
| Benzyl alcohol              | ND             | 250       |            | 0           | 0              | 20       | 125           |                |                 |          | U            |
| Bis(2-chloroethoxy)methane  | 1400           | 250       | 2000       | 0           | 68.6           | 18       | 110           |                |                 |          |              |
| Bis(2-chloroethyl)ether     | 1500           | 250       | 2000       | 0           | 73.3           | 30       | 131           |                |                 |          |              |
| Bis(2-chloroisopropyl)ether | 1500           | 250       | 2000       | 0           | 74.6           | 34       | 124           |                |                 |          |              |
| Bis(2-ethylhexyl)phthalate  | 1600           | 250       | 2000       | 0           | 77.8           | 35       | 137           |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                           |                |           |            |             |                |          |               |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|---------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg</b>  | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1127</b>  |
| Client ID:                | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19708</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit     | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Butyl benzyl phthalate    | 1500           | 250       | 2000       | 0           | 74.6           | 34       | 140           |                |                 |          |              |
| Carbazole                 | ND             | 250       |            | 0           | 0              | 20       | 130           |                |                 |          | U            |
| Chrysene                  | 1400           | 250       | 2000       | 0           | 69.6           | 31       | 133           |                |                 |          |              |
| Di-n-butyl phthalate      | 1500           | 250       | 2000       | 0           | 74.8           | 35       | 131           |                |                 |          |              |
| Di-n-octyl phthalate      | 1600           | 500       | 2000       | 0           | 77.8           | 37       | 143           |                |                 |          |              |
| Dibenzo(a,h)anthracene    | 1500           | 250       | 2000       | 0           | 73.7           | 24       | 145           |                |                 |          |              |
| Dibenzofuran              | ND             | 250       |            | 0           | 0              | 23       | 130           |                |                 |          | U            |
| Diethyl phthalate         | 1400           | 250       | 2000       | 0           | 72.0           | 35       | 130           |                |                 |          |              |
| Dimethyl phthalate        | 1400           | 250       | 2000       | 0           | 70.6           | 32       | 130           |                |                 |          |              |
| Fluoranthene              | 1300           | 250       | 2000       | 0           | 67.3           | 21       | 139           |                |                 |          |              |
| Fluorene                  | 1400           | 250       | 2000       | 0           | 71.5           | 30       | 130           |                |                 |          |              |
| Hexachlorobenzene         | 1400           | 250       | 2000       | 0           | 70.1           | 30       | 130           |                |                 |          |              |
| Hexachlorobutadiene       | 1400           | 250       | 2000       | 0           | 68.4           | 30       | 125           |                |                 |          |              |
| Hexachlorocyclopentadiene | 1100           | 250       | 2000       | 0           | 56.1           | 12       | 126           |                |                 |          |              |
| Hexachloroethane          | 1500           | 250       | 2000       | 0           | 73.6           | 30       | 125           |                |                 |          |              |
| Indeno(1,2,3-c,d)pyrene   | 1500           | 250       | 2000       | 0           | 74.0           | 28       | 141           |                |                 |          |              |
| Isophorone                | 1400           | 250       | 2000       | 0           | 68.8           | 30       | 125           |                |                 |          |              |
| N-Nitrosodi-n-propylamine | 1500           | 250       | 2000       | 0           | 73.3           | 39       | 125           |                |                 |          |              |
| N-Nitrosodimethylamine    | 1400           | 250       | 2000       | 0           | 69.0           | 10       | 123           |                |                 |          |              |
| N-Nitrosodiphenylamine    | 770            | 250       | 2000       | 0           | 38.3           | 15       | 110           |                |                 |          |              |
| Naphthalene               | 1300           | 250       | 2000       | 0           | 66.4           | 27       | 131           |                |                 |          |              |
| Nitrobenzene              | 1300           | 250       | 2000       | 0           | 67.1           | 35       | 125           |                |                 |          |              |
| Parathion                 | ND             | 500       |            | 0           | 0              | 30       | 140           |                |                 |          | U            |
| Pentachlorophenol         | 1000           | 500       | 2000       | 0           | 50.6           | 10       | 132           |                |                 |          | *            |
| Phenanthrene              | 1400           | 250       | 2000       | 0           | 71.6           | 35       | 130           |                |                 |          |              |
| Phenol                    | 1400           | 250       | 2000       | 0           | 69.6           | 20       | 135           |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |                |           |            |             |                |          |               |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|----------|---------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg</b>  | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1127</b>  |
| Client ID:                 | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19708</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit     | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Pyrene                     | 1500           | 250       | 2000       | 0           | 72.6           | 30       | 152           |                |                 |          |              |
| Pyridine                   | ND             | 250       |            | 0           | 0              | 1        | 101           |                |                 |          | U            |
| Surr: 2,4,6-Tribromophenol | 1800           |           | 2000       |             | 89.6           | 11       | 135           |                |                 |          |              |
| Surr: 2-Fluorobiphenyl     | 920            |           | 1000       |             | 91.8           | 21       | 143           |                |                 |          |              |
| Surr: 2-Fluorophenol       | 1700           |           | 2000       |             | 86.4           | 14       | 122           |                |                 |          |              |
| Surr: 4-Terphenyl-d14      | 940            |           | 1000       |             | 94.5           | 15       | 137           |                |                 |          |              |
| Surr: Nitrobenzene-d5      | 850            |           | 1000       |             | 85.0           | 17       | 136           |                |                 |          |              |
| Surr: Phenol-d6            | 1800           |           | 2000       |             | 89.5           | 10       | 116           |                |                 |          |              |

|                           |                       |           |            |             |                |          |                  |                |                 |          |              |
|---------------------------|-----------------------|-----------|------------|-------------|----------------|----------|------------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>1403148-004AMS</b> | SampType: | <b>MS</b>  | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg-dry</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1127</b>  |
| Client ID:                | <b>BatchQC</b>        | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b>    | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19711</b> |
| Analyte                   | Result                | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit        | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Biphenyl                  | ND                    | 290       |            | 0           | 0              | 30       | 130              |                |                 |          | U            |
| 1,2,4-Trichlorobenzene    | 1000                  | 290       | 2343       | 0           | 42.6           | 21       | 128              |                |                 |          |              |
| 1,2-Dichlorobenzene       | 1200                  | 290       | 2343       | 0           | 49.9           | 20       | 129              |                |                 |          |              |
| 1,3-Dichlorobenzene       | 1100                  | 290       | 2343       | 0           | 48.7           | 19       | 122              |                |                 |          |              |
| 1,4-Dichlorobenzene       | 1400                  | 290       | 2343       | 72.98       | 56.3           | 22       | 127              |                |                 |          |              |
| 2,3,4,6-Tetrachlorophenol | ND                    | 290       |            | 0           | 0              | 25       | 130              |                |                 |          | U            |
| 2,4,5-Trichlorophenol     | ND                    | 290       |            | 0           | 0              | 23       | 129              |                |                 |          | U            |
| 2,4,6-Trichlorophenol     | 1100                  | 290       | 2343       | 0           | 47.6           | 20       | 126              |                |                 |          |              |
| 2,4-Dichlorophenol        | 1000                  | 290       | 2343       | 0           | 44.8           | 18       | 125              |                |                 |          |              |
| 2,4-Dimethylphenol        | 1100                  | 290       | 2343       | 0           | 47.4           | 22       | 130              |                |                 |          |              |
| 2,4-Dinitrophenol         | 980                   | 590       | 2343       | 0           | 41.6           | 1        | 132              |                |                 |          | *            |
| 2,4-Dinitrotoluene        | 930                   | 290       | 2343       | 0           | 39.7           | 21       | 124              |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                |               |                  |                  |                         |              |           |             |      |          |      |
|-----------------------------|----------------|---------------|------------------|------------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                   | 1403148-004AMS | SampType: MS  | TestCode: 8270_S | Units: µg/Kg-dry | Prep Date: 4/3/2014     | RunNo: 1127  |           |             |      |          |      |
| Client ID:                  | BatchQC        | Batch ID: 751 | TestNo: SW8270D  | SW3546           | Analysis Date: 4/3/2014 | SeqNo: 19711 |           |             |      |          |      |
| Analyte                     | Result         | PQL           | SPK value        | SPK Ref Val      | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 2,6-Dinitrotoluene          | 890            | 290           | 2343             | 0                | 38.2                    | 20           | 127       |             |      |          |      |
| 2-Chloronaphthalene         | 990            | 290           | 2343             | 0                | 42.4                    | 18           | 145       |             |      |          |      |
| 2-Chlorophenol              | 1200           | 290           | 2343             | 0                | 52.5                    | 18           | 117       |             |      |          |      |
| 2-Methylnaphthalene         | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| 2-Methylphenol              | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| 2-Nitroaniline              | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| 2-Nitrophenol               | 970            | 290           | 2343             | 0                | 41.3                    | 15           | 121       |             |      |          |      |
| 3+4-Methylphenol            | 130            | 290           |                  | 62.26            | 0                       | 25           | 137       |             |      |          | J    |
| 3-Nitroaniline              | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| 4,6-Dinitro-2-methylphenol  | 560            | 590           | 2343             | 0                | 23.7                    | 12           | 128       |             |      |          | J    |
| 4-Bromophenyl phenyl ether  | 1000           | 290           | 2343             | 0                | 43.6                    | 27           | 135       |             |      |          |      |
| 4-Chloro-3-methylphenol     | 1100           | 290           | 2343             | 0                | 47.5                    | 20           | 130       |             |      |          |      |
| 4-Chloroaniline             | ND             | 290           |                  | 0                | 0                       | 11           | 121       |             |      |          | U    |
| 4-Chlorophenyl phenyl ether | 980            | 290           | 2343             | 0                | 42.0                    | 35           | 125       |             |      |          |      |
| 4-Nitroaniline              | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| 4-Nitrophenol               | 1100           | 590           | 2343             | 0                | 48.0                    | 22           | 141       |             |      |          |      |
| Acenaphthene                | 1000           | 290           | 2343             | 0                | 44.2                    | 24           | 132       |             |      |          |      |
| Acenaphthylene              | 970            | 290           | 2343             | 0                | 41.5                    | 22           | 134       |             |      |          |      |
| Acetophenone                | ND             | 290           |                  | 0                | 0                       | 20           | 120       |             |      |          | U    |
| Aniline                     | ND             | 290           |                  | 0                | 0                       | 1            | 105       |             |      |          | U    |
| Anthracene                  | 960            | 290           | 2343             | 0                | 40.9                    | 23           | 139       |             |      |          |      |
| Azobenzene                  | ND             | 290           |                  | 0                | 0                       | 5            | 110       |             |      |          | U    |
| Benzo(a)anthracene          | 980            | 290           | 2343             | 0                | 42.0                    | 24           | 134       |             |      |          |      |
| Benzo(a)pyrene              | 900            | 290           | 2343             | 0                | 38.6                    | 23           | 136       |             |      |          |      |
| Benzo(b)fluoranthene        | 920            | 290           | 2343             | 0                | 39.1                    | 24           | 132       |             |      |          |      |
| Benzo(g,h,i)perylene        | 890            | 290           | 2343             | 0                | 37.8                    | 27           | 131       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                |           |           |             |         |          |           |                |          |          |       |
|-----------------------------|----------------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|-------|
| Sample ID                   | 1403148-004AMS | SampType: | MS        | TestCode:   | 8270_S  | Units:   | µg/Kg-dry | Prep Date:     | 4/3/2014 | RunNo:   | 1127  |
| Client ID:                  | BatchQC        | Batch ID: | 751       | TestNo:     | SW8270D | SW3546   |           | Analysis Date: | 4/3/2014 | SeqNo:   | 19711 |
| Analyte                     | Result         | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Benzo(k)fluoranthene        | 980            | 290       | 2343      | 0           | 42.0    | 25       | 135       |                |          |          |       |
| Benzoic acid                | 150            | 590       |           | 106.5       | 0       | 5        | 131       |                |          |          | J     |
| Benzyl alcohol              | 380            | 290       |           | 0           | 0       | 20       | 130       |                |          |          |       |
| Bis(2-chloroethoxy)methane  | 1100           | 290       | 2343      | 0           | 45.4    | 23       | 133       |                |          |          |       |
| Bis(2-chloroethyl)ether     | 2900           | 290       | 2343      | 0           | 124     | 20       | 120       |                |          |          | S     |
| Bis(2-chloroisopropyl)ether | 1300           | 290       | 2343      | 0           | 56.0    | 32       | 120       |                |          |          |       |
| Bis(2-ethylhexyl)phthalate  | 1200           | 290       | 2343      | 0           | 53.2    | 28       | 144       |                |          |          |       |
| Butyl benzyl phthalate      | 1200           | 290       | 2343      | 0           | 50.1    | 28       | 142       |                |          |          |       |
| Carbazole                   | ND             | 290       |           | 0           | 0       | 20       | 130       |                |          |          | U     |
| Chrysene                    | 980            | 290       | 2343      | 0           | 41.8    | 24       | 136       |                |          |          |       |
| Di-n-butyl phthalate        | 1100           | 290       | 2343      | 0           | 48.4    | 25       | 133       |                |          |          |       |
| Di-n-octyl phthalate        | 1200           | 590       | 2343      | 0           | 52.6    | 23       | 142       |                |          |          |       |
| Dibenzo(a,h)anthracene      | 930            | 290       | 2343      | 0           | 39.7    | 24       | 134       |                |          |          |       |
| Dibenzofuran                | ND             | 290       |           | 0           | 0       | 20       | 130       |                |          |          | U     |
| Diethyl phthalate           | 1100           | 290       | 2343      | 0           | 46.6    | 24       | 130       |                |          |          |       |
| Dimethyl phthalate          | 1100           | 290       | 2343      | 0           | 46.2    | 24       | 131       |                |          |          |       |
| Fluoranthene                | 960            | 290       | 2343      | 0           | 41.1    | 22       | 122       |                |          |          |       |
| Fluorene                    | 990            | 290       | 2343      | 0           | 42.3    | 22       | 124       |                |          |          |       |
| Hexachlorobenzene           | 960            | 290       | 2343      | 0           | 41.0    | 25       | 132       |                |          |          |       |
| Hexachlorobutadiene         | 1100           | 290       | 2343      | 0           | 44.9    | 23       | 123       |                |          |          |       |
| Hexachlorocyclopentadiene   | 730            | 290       | 2343      | 0           | 31.2    | 1        | 124       |                |          |          |       |
| Hexachloroethane            | 1100           | 290       | 2343      | 0           | 47.9    | 3        | 111       |                |          |          |       |
| Indeno(1,2,3-c,d)pyrene     | 910            | 290       | 2343      | 0           | 38.6    | 26       | 140       |                |          |          | m     |
| Isophorone                  | 1100           | 290       | 2343      | 0           | 47.7    | 23       | 127       |                |          |          |       |
| N-Nitrosodi-n-propylamine   | 1300           | 290       | 2343      | 0           | 57.6    | 24       | 126       |                |          |          |       |
| N-Nitrosodimethylamine      | 900            | 290       | 2343      | 0           | 38.3    | 5        | 110       |                |          |          |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |                |               |                  |             |                  |                         |           |             |              |          |      |
|----------------------------|----------------|---------------|------------------|-------------|------------------|-------------------------|-----------|-------------|--------------|----------|------|
| Sample ID                  | 1403148-004AMS | SampType: MS  | TestCode: 8270_S |             | Units: µg/Kg-dry | Prep Date: 4/3/2014     |           |             | RunNo: 1127  |          |      |
| Client ID:                 | BatchQC        | Batch ID: 751 | TestNo: SW8270D  |             | SW3546           | Analysis Date: 4/3/2014 |           |             | SeqNo: 19711 |          |      |
| Analyte                    | Result         | PQL           | SPK value        | SPK Ref Val | %REC             | LowLimit                | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |
| N-Nitrosodiphenylamine     | 580            | 290           | 2343             | 0           | 24.7             | 15                      | 110       |             |              |          |      |
| Naphthalene                | 1000           | 290           | 2343             | 0           | 44.3             | 20                      | 120       |             |              |          |      |
| Nitrobenzene               | 1100           | 290           | 2343             | 0           | 45.4             | 17                      | 117       |             |              |          |      |
| Parathion                  | ND             | 590           |                  | 0           | 0                | 30                      | 140       |             |              |          | U    |
| Pentachlorophenol          | 1600           | 590           | 2343             | 0           | 67.4             | 17                      | 116       |             |              |          | *    |
| Phenanthrene               | 1000           | 290           | 2343             | 0           | 43.9             | 18                      | 126       |             |              |          |      |
| Phenol                     | 1200           | 290           | 2343             | 0           | 51.4             | 11                      | 106       |             |              |          |      |
| Pyrene                     | 1000           | 290           | 2343             | 0           | 43.0             | 20                      | 137       |             |              |          |      |
| Pyridine                   | 30             | 290           |                  | 33.78       | 0                | 10                      | 120       |             |              |          | J    |
| Surr: 2,4,6-Tribromophenol | 1500           |               | 2343             |             | 65.2             | 11                      | 135       |             |              |          |      |
| Surr: 2-Fluorobiphenyl     | 680            |               | 1171             |             | 58.0             | 21                      | 143       |             |              |          |      |
| Surr: 2-Fluorophenol       | 1500           |               | 2343             |             | 65.2             | 14                      | 122       |             |              |          |      |
| Surr: 4-Terphenyl-d14      | 670            |               | 1171             |             | 57.1             | 15                      | 137       |             |              |          |      |
| Surr: Nitrobenzene-d5      | 680            |               | 1171             |             | 58.1             | 17                      | 136       |             |              |          |      |
| Surr: Phenol-d6            | 1500           |               | 2343             |             | 65.6             | 10                      | 116       |             |              |          |      |

|                        |                 |               |                  |                  |                         |              |           |             |       |          |      |
|------------------------|-----------------|---------------|------------------|------------------|-------------------------|--------------|-----------|-------------|-------|----------|------|
| Sample ID              | 1403148-004AMSD | SampType: MSD | TestCode: 8270_S | Units: µg/Kg-dry | Prep Date: 4/3/2014     | RunNo: 1127  |           |             |       |          |      |
| Client ID:             | BatchQC         | Batch ID: 751 | TestNo: SW8270D  | SW3546           | Analysis Date: 4/3/2014 | SeqNo: 19712 |           |             |       |          |      |
| Analyte                | Result          | PQL           | SPK value        | SPK Ref Val      | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Biphenyl               | ND              | 290           |                  | 0                | 0                       | 30           | 130       | 0           | 0     | 20       | U    |
| 1,2,4-Trichlorobenzene | 1000            | 290           | 2355             | 0                | 42.5                    | 21           | 128       | 997.5       | 0.389 | 20       |      |
| 1,2-Dichlorobenzene    | 1200            | 290           | 2355             | 0                | 51.3                    | 20           | 129       | 1169        | 3.35  | 20       |      |
| 1,3-Dichlorobenzene    | 1200            | 290           | 2355             | 0                | 51.5                    | 19           | 122       | 1141        | 6.11  | 20       |      |
| 1,4-Dichlorobenzene    | 1300            | 290           | 2355             | 72.98            | 50.1                    | 22           | 127       | 1393        | 10.6  | 20       |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                 |           |           |             |         |          |           |                |          |          |       |
|-----------------------------|-----------------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|-------|
| Sample ID                   | 1403148-004AMSD | SampType: | MSD       | TestCode:   | 8270_S  | Units:   | µg/Kg-dry | Prep Date:     | 4/3/2014 | RunNo:   | 1127  |
| Client ID:                  | BatchQC         | Batch ID: | 751       | TestNo:     | SW8270D | SW3546   |           | Analysis Date: | 4/3/2014 | SeqNo:   | 19712 |
| Analyte                     | Result          | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| 2,3,4,6-Tetrachlorophenol   | ND              | 290       |           | 0           | 0       | 25       | 130       | 0              | 0        | 20       | U     |
| 2,4,5-Trichlorophenol       | ND              | 290       |           | 0           | 0       | 23       | 129       | 0              | 0        | 20       | U     |
| 2,4,6-Trichlorophenol       | 1100            | 290       | 2355      | 0           | 48.3    | 20       | 126       | 1115           | 2.09     | 20       |       |
| 2,4-Dichlorophenol          | 1100            | 290       | 2355      | 0           | 44.6    | 18       | 125       | 1049           | 0.163    | 20       |       |
| 2,4-Dimethylphenol          | 1100            | 290       | 2355      | 0           | 45.3    | 22       | 130       | 1110           | 4.00     | 20       |       |
| 2,4-Dinitrophenol           | 970             | 590       | 2355      | 0           | 41.0    | 1        | 132       | 975.0          | 0.984    | 20       | *     |
| 2,4-Dinitrotoluene          | 940             | 290       | 2355      | 0           | 39.9    | 21       | 124       | 929.3          | 1.08     | 20       |       |
| 2,6-Dinitrotoluene          | 920             | 290       | 2355      | 0           | 39.0    | 20       | 127       | 894.9          | 2.59     | 20       |       |
| 2-Chloronaphthalene         | 1000            | 290       | 2355      | 0           | 43.0    | 18       | 145       | 993.3          | 2.00     | 20       |       |
| 2-Chlorophenol              | 1300            | 290       | 2355      | 0           | 53.9    | 18       | 117       | 1230           | 3.22     | 20       |       |
| 2-Methylnaphthalene         | 35              | 290       |           | 0           | 0       | 20       | 120       | 0              | 200      | 20       | JR    |
| 2-Methylphenol              | ND              | 290       |           | 0           | 0       | 20       | 120       | 0              | 0        | 20       | U     |
| 2-Nitroaniline              | ND              | 290       |           | 0           | 0       | 20       | 120       | 0              | 0        | 20       | U     |
| 2-Nitrophenol               | 980             | 290       | 2355      | 0           | 41.8    | 15       | 121       | 968.3          | 1.67     | 20       |       |
| 3+4-Methylphenol            | 180             | 290       |           | 62.26       | 0       | 25       | 137       | 131.5          | 32.8     | 20       | JR    |
| 3-Nitroaniline              | ND              | 290       |           | 0           | 0       | 20       | 120       | 0              | 0        | 20       | U     |
| 4,6-Dinitro-2-methylphenol  | 510             | 590       | 2355      | 0           | 21.7    | 12       | 128       | 555.8          | 8.55     | 20       | J     |
| 4-Bromophenyl phenyl ether  | 1100            | 290       | 2355      | 0           | 45.9    | 27       | 135       | 1021           | 5.75     | 20       |       |
| 4-Chloro-3-methylphenol     | 1100            | 290       | 2355      | 0           | 46.3    | 20       | 130       | 1113           | 2.10     | 20       |       |
| 4-Chloroaniline             | ND              | 290       |           | 0           | 0       | 11       | 121       | 0              | 0        | 20       | U     |
| 4-Chlorophenyl phenyl ether | 1000            | 290       | 2355      | 0           | 42.9    | 35       | 125       | 984.8          | 2.60     | 20       |       |
| 4-Nitroaniline              | ND              | 290       |           | 0           | 0       | 20       | 120       | 0              | 0        | 20       | U     |
| 4-Nitrophenol               | 1200            | 590       | 2355      | 0           | 48.9    | 22       | 141       | 1125           | 2.35     | 20       |       |
| Acenaphthene                | 1000            | 290       | 2355      | 0           | 44.4    | 24       | 132       | 1036           | 0.986    | 20       |       |
| Acenaphthylene              | 1000            | 290       | 2355      | 0           | 42.6    | 22       | 134       | 971.6          | 3.23     | 20       |       |
| Acetophenone                | ND              | 290       |           | 0           | 0       | 20       | 120       | 0              | 0        | 20       | U     |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                 |           |           |             |         |          |           |                |          |          |       |
|-----------------------------|-----------------|-----------|-----------|-------------|---------|----------|-----------|----------------|----------|----------|-------|
| Sample ID                   | 1403148-004AMSD | SampType: | MSD       | TestCode:   | 8270_S  | Units:   | µg/Kg-dry | Prep Date:     | 4/3/2014 | RunNo:   | 1127  |
| Client ID:                  | BatchQC         | Batch ID: | 751       | TestNo:     | SW8270D | SW3546   |           | Analysis Date: | 4/3/2014 | SeqNo:   | 19712 |
| Analyte                     | Result          | PQL       | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Aniline                     | ND              | 290       |           | 0           | 0       | 1        | 105       | 0              | 0        | 20       | U     |
| Anthracene                  | 1000            | 290       | 2355      | 0           | 42.5    | 23       | 139       | 957.7          | 4.48     | 20       |       |
| Azobenzene                  | ND              | 290       |           | 0           | 0       | 5        | 110       | 0              | 0        | 20       | U     |
| Benzo(a)anthracene          | 1100            | 290       | 2355      | 0           | 44.7    | 24       | 134       | 984.1          | 6.82     | 20       |       |
| Benzo(a)pyrene              | 950             | 290       | 2355      | 0           | 40.5    | 23       | 136       | 903.9          | 5.34     | 20       |       |
| Benzo(b)fluoranthene        | 990             | 290       | 2355      | 0           | 41.9    | 24       | 132       | 915.3          | 7.41     | 20       |       |
| Benzo(g,h,i)perylene        | 930             | 290       | 2355      | 0           | 39.3    | 27       | 131       | 886.2          | 4.28     | 20       |       |
| Benzo(k)fluoranthene        | 1000            | 290       | 2355      | 0           | 43.4    | 25       | 135       | 983.6          | 3.81     | 20       |       |
| Benzoic acid                | 300             | 590       |           | 106.5       | 0       | 5        | 131       | 154.9          | 62.9     | 20       | JR    |
| Benzyl alcohol              | ND              | 290       |           | 0           | 0       | 20       | 130       | 382.6          | 200      | 20       | RU    |
| Bis(2-chloroethoxy)methane  | 1100            | 290       | 2355      | 0           | 45.9    | 23       | 133       | 1063           | 1.68     | 20       |       |
| Bis(2-chloroethyl)ether     | 1300            | 290       | 2355      | 0           | 55.7    | 20       | 120       | 2909           | 75.7     | 20       | R     |
| Bis(2-chloroisopropyl)ether | 1300            | 290       | 2355      | 0           | 55.8    | 32       | 120       | 1313           | 0.173    | 20       |       |
| Bis(2-ethylhexyl)phthalate  | 1300            | 290       | 2355      | 0           | 56.0    | 28       | 144       | 1247           | 5.59     | 20       |       |
| Butyl benzyl phthalate      | 1200            | 290       | 2355      | 0           | 51.8    | 28       | 142       | 1173           | 3.89     | 20       |       |
| Carbazole                   | ND              | 290       |           | 0           | 0       | 20       | 130       | 0              | 0        | 20       | U     |
| Chrysene                    | 1000            | 290       | 2355      | 0           | 44.2    | 24       | 136       | 978.5          | 6.12     | 20       |       |
| Di-n-butyl phthalate        | 1100            | 290       | 2355      | 0           | 48.8    | 25       | 133       | 1133           | 1.51     | 20       |       |
| Di-n-octyl phthalate        | 1300            | 590       | 2355      | 0           | 54.7    | 23       | 142       | 1231           | 4.52     | 20       |       |
| Dibenzo(a,h)anthracene      | 930             | 290       | 2355      | 0           | 39.6    | 24       | 134       | 929.2          | 0.332    | 20       |       |
| Dibenzofuran                | ND              | 290       |           | 0           | 0       | 20       | 130       | 0              | 0        | 20       | U     |
| Diethyl phthalate           | 1100            | 290       | 2355      | 0           | 47.5    | 24       | 130       | 1091           | 2.54     | 20       |       |
| Dimethyl phthalate          | 1100            | 290       | 2355      | 0           | 47.4    | 24       | 131       | 1083           | 2.94     | 20       |       |
| Fluoranthene                | 1100            | 290       | 2355      | 0           | 46.5    | 22       | 122       | 962.6          | 12.9     | 20       |       |
| Fluorene                    | 1000            | 290       | 2355      | 0           | 44.4    | 22       | 124       | 989.9          | 5.53     | 20       |       |
| Hexachlorobenzene           | 1000            | 290       | 2355      | 0           | 43.0    | 25       | 132       | 961.0          | 5.23     | 20       |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |                 |               |                  |             |                  |                         |           |             |              |          |      |
|----------------------------|-----------------|---------------|------------------|-------------|------------------|-------------------------|-----------|-------------|--------------|----------|------|
| Sample ID                  | 1403148-004AMSD | SampType: MSD | TestCode: 8270_S |             | Units: µg/Kg-dry | Prep Date: 4/3/2014     |           |             | RunNo: 1127  |          |      |
| Client ID:                 | BatchQC         | Batch ID: 751 | TestNo: SW8270D  |             | SW3546           | Analysis Date: 4/3/2014 |           |             | SeqNo: 19712 |          |      |
| Analyte                    | Result          | PQL           | SPK value        | SPK Ref Val | %REC             | LowLimit                | HighLimit | RPD Ref Val | %RPD         | RPDLimit | Qual |
| Hexachlorobutadiene        | 1000            | 290           | 2355             | 0           | 43.6             | 23                      | 123       | 1052        | 2.37         | 20       | m    |
| Hexachlorocyclopentadiene  | 750             | 290           | 2355             | 0           | 32.0             | 1                       | 124       | 729.8       | 3.18         | 20       |      |
| Hexachloroethane           | 1200            | 290           | 2355             | 0           | 50.0             | 3                       | 111       | 1123        | 4.77         | 20       |      |
| Indeno(1,2,3-c,d)pyrene    | 920             | 290           | 2355             | 0           | 39.3             | 26                      | 140       | 905.0       | 2.17         | 20       |      |
| Isophorone                 | 1100            | 290           | 2355             | 0           | 46.6             | 23                      | 127       | 1118        | 1.81         | 20       |      |
| N-Nitrosodi-n-propylamine  | 1400            | 290           | 2355             | 0           | 58.3             | 24                      | 126       | 1349        | 1.72         | 20       |      |
| N-Nitrosodimethylamine     | 1000            | 290           | 2355             | 0           | 43.2             | 5                       | 110       | 896.9       | 12.7         | 20       |      |
| N-Nitrosodiphenylamine     | 570             | 290           | 2355             | 0           | 24.3             | 15                      | 110       | 577.6       | 1.08         | 20       |      |
| Naphthalene                | 1100            | 290           | 2355             | 0           | 45.1             | 20                      | 120       | 1038        | 2.27         | 20       |      |
| Nitrobenzene               | 1000            | 290           | 2355             | 0           | 43.7             | 17                      | 117       | 1063        | 3.22         | 20       |      |
| Parathion                  | ND              | 590           |                  | 0           | 0                | 30                      | 140       | 0           | 0            | 20       | U    |
| Pentachlorophenol          | 1500            | 590           | 2355             | 0           | 65.5             | 17                      | 116       | 1579        | 2.31         | 20       | *    |
| Phenanthrene               | 1100            | 290           | 2355             | 0           | 46.8             | 18                      | 126       | 1028        | 6.94         | 20       | RU   |
| Phenol                     | 1300            | 290           | 2355             | 0           | 53.5             | 11                      | 106       | 1204        | 4.60         | 20       |      |
| Pyrene                     | 1200            | 290           | 2355             | 0           | 49.6             | 20                      | 137       | 1007        | 14.8         | 20       |      |
| Pyridine                   | ND              | 290           |                  | 33.78       | 0                | 10                      | 120       | 30.37       | 200          | 20       |      |
| Surr: 2,4,6-Tribromophenol | 1500            |               | 2355             |             | 62.6             | 11                      | 135       |             | 0            | 0        |      |
| Surr: 2-Fluorobiphenyl     | 670             |               | 1178             |             | 57.1             | 21                      | 143       |             | 0            | 0        |      |
| Surr: 2-Fluorophenol       | 1600            |               | 2355             |             | 66.0             | 14                      | 122       |             | 0            | 0        |      |
| Surr: 4-Terphenyl-d14      | 690             |               | 1178             |             | 58.2             | 15                      | 137       |             | 0            | 0        |      |
| Surr: Nitrobenzene-d5      | 660             |               | 1178             |             | 56.3             | 17                      | 136       |             | 0            | 0        |      |
| Surr: Phenol-d6            | 1600            |               | 2355             |             | 66.6             | 10                      | 116       |             | 0            | 0        |      |

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S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |        |           |      |           |             |        |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1114     |      |
| Client ID:                 | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     | SW3546 |          | Analysis Date: | 4/3/2014    | SeqNo: | 17932    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Biphenyl                   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,2,4-Trichlorobenzene     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,3,4,6-Tetrachlorophenol  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4,5-Trichlorophenol      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4,6-Trichlorophenol      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dichlorophenol         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dimethylphenol         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,4-Dinitrophenol          |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| 2,4-Dinitrotoluene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2,6-Dinitrotoluene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Chloronaphthalene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorophenol             |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Methylnaphthalene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Methylphenol             |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Nitroaniline             |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 2-Nitrophenol              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 3+4-Methylphenol           |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 3,3´-Dichlorobenzidine     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 3-Nitroaniline             |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4,6-Dinitro-2-methylphenol |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| 4-Bromophenyl phenyl ether |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Chloro-3-methylphenol    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Chloroaniline            |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1114     |      |
| Client ID:                  | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     | SW3546 |          | Analysis Date: | 4/3/2014    | SeqNo: | 17932    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 4-Chlorophenyl phenyl ether |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Nitroaniline              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| 4-Nitrophenol               |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Acenaphthene                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Acenaphthylene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Acetophenone                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Aniline                     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Anthracene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Atrazine                    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Azobenzene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzaldehyde                |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Benidine                    |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Benzo(a)anthracene          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(a)pyrene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(b)fluoranthene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(g,h,i)perylene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzo(k)fluoranthene        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Benzoic acid                |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Benzyl alcohol              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroethoxy)methane  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroethyl)ether     |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-chloroisopropyl)ether |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Bis(2-ethylhexyl)phthalate  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Butyl benzyl phthalate      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Caprolactam                 |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Carbazole                   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                           |        |           |      |           |             |        |          |                |             |        |          |      |
|---------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                 | MB-751 | SampType: | MBLK | TestCode: | 8270_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1114     |      |
| Client ID:                | PBS    | Batch ID: | 751  | TestNo:   | SW8270D     |        | SW3546   | Analysis Date: | 4/3/2014    | SeqNo: | 17932    |      |
| Analyte                   |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chrysene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Di-n-butyl phthalate      |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Di-n-octyl phthalate      |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| Dibenzo(a,h)anthracene    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Dibenzofuran              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Diethyl phthalate         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Dimethyl phthalate        |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Fluoranthene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Fluorene                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobenzene         |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene       |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachlorocyclopentadiene |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Hexachloroethane          |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Indeno(1,2,3-c,d)pyrene   |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Isophorone                |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodi-n-propylamine |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodimethylamine    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| N-Nitrosodiphenylamine    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Naphthalene               |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Nitrobenzene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Parathion                 |        | ND        | 500  |           |             |        |          |                |             |        |          | U    |
| Pentachlorophenol         |        | ND        | 500  |           |             |        |          |                |             |        |          | U*   |
| Phenanthrene              |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Phenol                    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Pyrene                    |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |
| Pyridine                  |        | ND        | 250  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |        |                |                  |              |                         |              |           |             |      |          |      |
|----------------------------|--------|----------------|------------------|--------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                  | MB-751 | SampType: MBLK | TestCode: 8270_S | Units: µg/Kg | Prep Date: 4/3/2014     | RunNo: 1114  |           |             |      |          |      |
| Client ID:                 | PBS    | Batch ID: 751  | TestNo: SW8270D  | SW3546       | Analysis Date: 4/3/2014 | SeqNo: 17932 |           |             |      |          |      |
| Analyte                    | Result | PQL            | SPK value        | SPK Ref Val  | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 2,4,6-Tribromophenol | 1600   |                | 2000             |              | 81.7                    | 11           | 135       |             |      |          |      |
| Surr: 2-Fluorobiphenyl     | 860    |                | 1000             |              | 86.2                    | 21           | 143       |             |      |          |      |
| Surr: 2-Fluorophenol       | 2200   |                | 2000             |              | 110                     | 14           | 122       |             |      |          |      |
| Surr: 4-Terphenyl-d14      | 980    |                | 1000             |              | 98.0                    | 15           | 137       |             |      |          |      |
| Surr: Nitrobenzene-d5      | 830    |                | 1000             |              | 82.6                    | 17           | 136       |             |      |          |      |
| Surr: Phenol-d6            | 2200   |                | 2000             |              | 110                     | 10           | 116       |             |      |          |      |

|                           |         |               |                  |              |                         |              |           |             |      |          |      |
|---------------------------|---------|---------------|------------------|--------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID                 | LCS-751 | SampType: LCS | TestCode: 8270_S | Units: µg/Kg | Prep Date: 4/3/2014     | RunNo: 1114  |           |             |      |          |      |
| Client ID:                | LCSS    | Batch ID: 751 | TestNo: SW8270D  | SW3546       | Analysis Date: 4/3/2014 | SeqNo: 17933 |           |             |      |          |      |
| Analyte                   | Result  | PQL           | SPK value        | SPK Ref Val  | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Biphenyl                  | ND      | 250           |                  | 0            | 0                       | 30           | 130       |             |      |          | U    |
| 1,2,4-Trichlorobenzene    | 1300    | 250           | 2000             | 0            | 66.1                    | 30           | 125       |             |      |          |      |
| 1,2-Dichlorobenzene       | 1400    | 250           | 2000             | 0            | 67.5                    | 24           | 122       |             |      |          |      |
| 1,3-Dichlorobenzene       | 1400    | 250           | 2000             | 0            | 68.4                    | 25           | 125       |             |      |          |      |
| 1,4-Dichlorobenzene       | 1300    | 250           | 2000             | 0            | 64.6                    | 23           | 121       |             |      |          |      |
| 2,3,4,6-Tetrachlorophenol | ND      | 250           |                  | 0            | 0                       | 20           | 135       |             |      |          | U    |
| 2,4,5-Trichlorophenol     | ND      | 250           |                  | 0            | 0                       | 21           | 131       |             |      |          | U    |
| 2,4,6-Trichlorophenol     | 1300    | 250           | 2000             | 0            | 64.1                    | 25           | 130       |             |      |          |      |
| 2,4-Dichlorophenol        | 1300    | 250           | 2000             | 0            | 64.0                    | 31           | 125       |             |      |          |      |
| 2,4-Dimethylphenol        | 1300    | 250           | 2000             | 0            | 64.1                    | 17           | 132       |             |      |          |      |
| 2,4-Dinitrophenol         | 930     | 500           | 2000             | 0            | 46.3                    | 1            | 115       |             |      |          | *    |
| 2,4-Dinitrotoluene        | 1300    | 250           | 2000             | 0            | 63.9                    | 30           | 134       |             |      |          |      |
| 2,6-Dinitrotoluene        | 1200    | 250           | 2000             | 0            | 62.3                    | 24           | 130       |             |      |          |      |
| 2-Chloronaphthalene       | 1400    | 250           | 2000             | 0            | 69.4                    | 30           | 130       |             |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                |           |            |             |                |          |               |                |                 |          |              |
|-----------------------------|----------------|-----------|------------|-------------|----------------|----------|---------------|----------------|-----------------|----------|--------------|
| Sample ID                   | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg</b>  | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1114</b>  |
| Client ID:                  | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>17933</b> |
| Analyte                     | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit     | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 2-Chlorophenol              | 1400           | 250       | 2000       | 0           | 71.6           | 32       | 134           |                |                 |          |              |
| 2-Methylnaphthalene         | ND             | 250       |            | 0           | 0              | 22       | 128           |                |                 |          | U            |
| 2-Methylphenol              | ND             | 250       |            | 0           | 0              | 21       | 127           |                |                 |          | U            |
| 2-Nitroaniline              | ND             | 250       |            | 0           | 0              | 25       | 125           |                |                 |          | U            |
| 2-Nitrophenol               | 1300           | 250       | 2000       | 0           | 66.5           | 16       | 146           |                |                 |          |              |
| 3+4-Methylphenol            | ND             | 250       |            | 0           | 0              | 22       | 134           |                |                 |          | U            |
| 3-Nitroaniline              | ND             | 250       |            | 0           | 0              | 20       | 120           |                |                 |          | U            |
| 4,6-Dinitro-2-methylphenol  | 880            | 500       | 2000       | 0           | 43.8           | 11       | 141           |                |                 |          |              |
| 4-Bromophenyl phenyl ether  | 1400           | 250       | 2000       | 0           | 71.3           | 35       | 135           |                |                 |          |              |
| 4-Chloro-3-methylphenol     | 1400           | 250       | 2000       | 0           | 67.5           | 19       | 139           |                |                 |          |              |
| 4-Chloroaniline             | ND             | 250       |            | 0           | 0              | 11       | 121           |                |                 |          | U            |
| 4-Chlorophenyl phenyl ether | 1400           | 250       | 2000       | 0           | 72.5           | 30       | 128           |                |                 |          |              |
| 4-Nitroaniline              | ND             | 250       |            | 0           | 0              | 20       | 120           |                |                 |          | U            |
| 4-Nitrophenol               | 1000           | 500       | 2000       | 0           | 51.9           | 17       | 140           |                |                 |          |              |
| Acenaphthene                | 1400           | 250       | 2000       | 0           | 70.2           | 25       | 137           |                |                 |          |              |
| Acenaphthylene              | 1400           | 250       | 2000       | 0           | 68.3           | 23       | 136           |                |                 |          |              |
| Acetophenone                | ND             | 250       |            | 0           | 0              | 30       | 125           |                |                 |          | U            |
| Aniline                     | ND             | 250       |            | 0           | 0              | 1        | 105           |                |                 |          | U            |
| Anthracene                  | 1400           | 250       | 2000       | 0           | 71.1           | 23       | 150           |                |                 |          |              |
| Azobenzene                  | ND             | 250       |            | 0           | 0              | 20       | 130           |                |                 |          | U            |
| Benzo(a)anthracene          | 1400           | 250       | 2000       | 0           | 67.7           | 31       | 140           |                |                 |          |              |
| Benzo(a)pyrene              | 1400           | 250       | 2000       | 0           | 70.3           | 36       | 136           |                |                 |          |              |
| Benzo(b)fluoranthene        | 1500           | 250       | 2000       | 0           | 73.4           | 30       | 140           |                |                 |          |              |
| Benzo(g,h,i)perylene        | 1400           | 250       | 2000       | 0           | 71.8           | 21       | 143           |                |                 |          |              |
| Benzo(k)fluoranthene        | 1400           | 250       | 2000       | 0           | 70.3           | 30       | 140           |                |                 |          |              |
| Benzoic acid                | ND             | 500       |            | 0           | 0              | 5        | 105           |                |                 |          | U            |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                             |                |           |            |             |                |          |               |                |                 |          |              |
|-----------------------------|----------------|-----------|------------|-------------|----------------|----------|---------------|----------------|-----------------|----------|--------------|
| Sample ID                   | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:   | <b>µg/Kg</b>  | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1114</b>  |
| Client ID:                  | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> |          | <b>SW3546</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>17933</b> |
| Analyte                     | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit     | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Benzyl alcohol              | ND             | 250       |            | 0           | 0              | 20       | 125           |                |                 |          | U            |
| Bis(2-chloroethoxy)methane  | 1400           | 250       | 2000       | 0           | 68.6           | 18       | 110           |                |                 |          |              |
| Bis(2-chloroethyl)ether     | 1500           | 250       | 2000       | 0           | 73.3           | 30       | 131           |                |                 |          |              |
| Bis(2-chloroisopropyl)ether | 1500           | 250       | 2000       | 0           | 74.6           | 34       | 124           |                |                 |          |              |
| Bis(2-ethylhexyl)phthalate  | 1600           | 250       | 2000       | 0           | 77.8           | 35       | 137           |                |                 |          |              |
| Butyl benzyl phthalate      | 1500           | 250       | 2000       | 0           | 74.6           | 34       | 140           |                |                 |          |              |
| Carbazole                   | ND             | 250       |            | 0           | 0              | 20       | 130           |                |                 |          | U            |
| Chrysene                    | 1400           | 250       | 2000       | 0           | 69.6           | 31       | 133           |                |                 |          |              |
| Di-n-butyl phthalate        | 1500           | 250       | 2000       | 0           | 74.8           | 35       | 131           |                |                 |          |              |
| Di-n-octyl phthalate        | 1600           | 500       | 2000       | 0           | 77.8           | 37       | 143           |                |                 |          | *            |
| Dibenzo(a,h)anthracene      | 1500           | 250       | 2000       | 0           | 73.7           | 24       | 145           |                |                 |          |              |
| Dibenzofuran                | ND             | 250       |            | 0           | 0              | 23       | 130           |                |                 |          | U            |
| Diethyl phthalate           | 1400           | 250       | 2000       | 0           | 72.0           | 35       | 130           |                |                 |          |              |
| Dimethyl phthalate          | 1400           | 250       | 2000       | 0           | 70.6           | 32       | 130           |                |                 |          |              |
| Fluoranthene                | 1300           | 250       | 2000       | 0           | 67.3           | 21       | 139           |                |                 |          |              |
| Fluorene                    | 1400           | 250       | 2000       | 0           | 71.5           | 30       | 130           |                |                 |          |              |
| Hexachlorobenzene           | 1400           | 250       | 2000       | 0           | 70.1           | 30       | 130           |                |                 |          |              |
| Hexachlorobutadiene         | 1400           | 250       | 2000       | 0           | 68.4           | 30       | 125           |                |                 |          |              |
| Hexachlorocyclopentadiene   | 1100           | 250       | 2000       | 0           | 56.1           | 12       | 126           |                |                 |          |              |
| Hexachloroethane            | 1500           | 250       | 2000       | 0           | 73.6           | 30       | 125           |                |                 |          |              |
| Indeno(1,2,3-c,d)pyrene     | 1500           | 250       | 2000       | 0           | 74.0           | 28       | 141           |                |                 |          |              |
| Isophorone                  | 1400           | 250       | 2000       | 0           | 68.8           | 30       | 125           |                |                 |          |              |
| N-Nitrosodi-n-propylamine   | 1500           | 250       | 2000       | 0           | 73.3           | 39       | 125           |                |                 |          |              |
| N-Nitrosodimethylamine      | 1400           | 250       | 2000       | 0           | 69.0           | 10       | 123           |                |                 |          |              |
| N-Nitrosodiphenylamine      | 770            | 250       | 2000       | 0           | 38.3           | 15       | 110           |                |                 |          |              |
| Naphthalene                 | 1300           | 250       | 2000       | 0           | 66.4           | 27       | 131           |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 751

|                            |                |           |            |             |                |               |              |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|---------------|--------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-751</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8270_S</b>  | Units:        | <b>µg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1114</b>  |
| Client ID:                 | <b>LCSS</b>    | Batch ID: | <b>751</b> | TestNo:     | <b>SW8270D</b> | <b>SW3546</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>17933</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit      | HighLimit    | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Nitrobenzene               | 1300           | 250       | 2000       | 0           | 67.1           | 35            | 125          |                |                 |          |              |
| Parathion                  | ND             | 500       |            | 0           | 0              | 30            | 140          |                |                 |          | U            |
| Pentachlorophenol          | 1000           | 500       | 2000       | 0           | 50.6           | 10            | 132          |                |                 |          | *            |
| Phenanthrene               | 1400           | 250       | 2000       | 0           | 71.6           | 35            | 130          |                |                 |          |              |
| Phenol                     | 1400           | 250       | 2000       | 0           | 69.6           | 20            | 135          |                |                 |          |              |
| Pyrene                     | 1500           | 250       | 2000       | 0           | 72.6           | 30            | 152          |                |                 |          |              |
| Pyridine                   | ND             | 250       |            | 0           | 0              | 1             | 101          |                |                 |          | U            |
| Surr: 2,4,6-Tribromophenol | 1800           |           | 2000       |             | 89.6           | 11            | 135          |                |                 |          |              |
| Surr: 2-Fluorobiphenyl     | 920            |           | 1000       |             | 91.8           | 21            | 143          |                |                 |          |              |
| Surr: 2-Fluorophenol       | 1700           |           | 2000       |             | 86.4           | 14            | 122          |                |                 |          |              |
| Surr: 4-Terphenyl-d14      | 940            |           | 1000       |             | 94.5           | 15            | 137          |                |                 |          |              |
| Surr: Nitrobenzene-d5      | 850            |           | 1000       |             | 85.0           | 17            | 136          |                |                 |          |              |
| Surr: Phenol-d6            | 1800           |           | 2000       |             | 89.5           | 10            | 116          |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 752

|              |        |           |      |           |             |        |          |                |             |        |          |      |
|--------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID    | MB-752 | SampType: | MBLK | TestCode: | 8082_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1133     |      |
| Client ID:   | PBS    | Batch ID: | 752  | TestNo:   | SW8082A     | SW3546 |          | Analysis Date: | 4/4/2014    | SeqNo: | 18932    |      |
| Analyte      |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Aroclor 1016 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1221 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1232 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1242 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1248 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1254 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1260 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1262 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Aroclor 1268 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Surr: DCB    |        | 8.8       |      | 24.53     |             | 35.9   | 12       | 144            |             |        |          |      |
| Surr: TCX    |        | 27        |      | 24.53     |             | 109    | 13       | 145            |             |        |          |      |

|              |         |           |     |           |           |             |       |                |           |             |       |          |      |
|--------------|---------|-----------|-----|-----------|-----------|-------------|-------|----------------|-----------|-------------|-------|----------|------|
| Sample ID    | LCS-752 | SampType: | LCS | TestCode: | 8082_S    | Units:      | µg/Kg | Prep Date:     | 4/3/2014  | RunNo:      | 1133  |          |      |
| Client ID:   | LCSS    | Batch ID: | 752 | TestNo:   | SW8082A   | SW3546      |       | Analysis Date: | 4/4/2014  | SeqNo:      | 18933 |          |      |
| Analyte      |         | Result    |     | PQL       | SPK value | SPK Ref Val | %REC  | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Aroclor 1248 |         | 210       |     | 20        | 250.0     | 0           | 83.7  | 35             | 135       |             |       |          |      |
| Surr: DCB    |         | 18        |     |           | 25.00     |             | 71.4  | 12             | 144       |             |       |          |      |
| Surr: TCX    |         | 19        |     |           | 25.00     |             | 76.7  | 13             | 145       |             |       |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 752

|              |                |           |     |           |             |        |           |                |             |        |          |      |
|--------------|----------------|-----------|-----|-----------|-------------|--------|-----------|----------------|-------------|--------|----------|------|
| Sample ID    | 1403133-001BMS | SampType: | MS  | TestCode: | 8082_S      | Units: | µg/Kg-dry | Prep Date:     | 4/3/2014    | RunNo: | 1133     |      |
| Client ID:   | BatchQC        | Batch ID: | 752 | TestNo:   | SW8082A     | SW3546 |           | Analysis Date: | 4/4/2014    | SeqNo: | 19316    |      |
| Analyte      |                | Result    | PQL | SPK value | SPK Ref Val | %REC   | LowLimit  | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Aroclor 1248 |                | 160       | 21  | 257.2     | 0           | 63.4   | 25        | 137            |             |        |          |      |
| Surr: DCB    |                | 16        |     | 25.72     |             | 62.3   | 12        | 144            |             |        |          |      |
| Surr: TCX    |                | 16        |     | 25.72     |             | 63.2   | 13        | 145            |             |        |          |      |

|              |                 |           |     |           |             |        |           |                |             |        |          |      |
|--------------|-----------------|-----------|-----|-----------|-------------|--------|-----------|----------------|-------------|--------|----------|------|
| Sample ID    | 1403133-001BMSD | SampType: | MSD | TestCode: | 8082_S      | Units: | µg/Kg-dry | Prep Date:     | 4/3/2014    | RunNo: | 1133     |      |
| Client ID:   | BatchQC         | Batch ID: | 752 | TestNo:   | SW8082A     | SW3546 |           | Analysis Date: | 4/4/2014    | SeqNo: | 19317    |      |
| Analyte      |                 | Result    | PQL | SPK value | SPK Ref Val | %REC   | LowLimit  | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Aroclor 1248 |                 | 220       | 21  | 257.4     | 0           | 85.1   | 25        | 137            | 163.2       | 29.2   | 20       | R    |
| Surr: DCB    |                 | 22        |     | 25.74     |             | 85.2   | 12        | 144            |             | 0      | 0        |      |
| Surr: TCX    |                 | 21        |     | 25.74     |             | 80.6   | 13        | 145            |             | 0      | 0        |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 756

|            |            |           |       |           |             |         |          |                |             |        |          |      |
|------------|------------|-----------|-------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID  | MBS040314A | SampType: | MBLK  | TestCode: | ICPSCAN_S   | Units:  | mg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1125     |      |
| Client ID: | PBS        | Batch ID: | 756   | TestNo:   | SW6010C     | SW3050B |          | Analysis Date: | 4/3/2014    | SeqNo: | 18317    |      |
| Analyte    |            | Result    | PQL   | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Aluminum   |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Antimony   |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Arsenic    |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Barium     |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Beryllium  |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Cadmium    |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Calcium    |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Chromium   |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Cobalt     |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Copper     |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Iron       |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Lead       |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Magnesium  |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Manganese  |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Nickel     |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Potassium  |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Selenium   |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Silver     |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Sodium     |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Thallium   |            | ND        | 0.500 |           |             |         |          |                |             |        |          | U    |
| Vanadium   |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |
| Zinc       |            | ND        | 0.400 |           |             |         |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 756

|            |             |               |                     |           |              |                         |          |           |              |      |          |      |
|------------|-------------|---------------|---------------------|-----------|--------------|-------------------------|----------|-----------|--------------|------|----------|------|
| Sample ID  | LCSS040314A | SampType: LCS | TestCode: ICPSCAN_S |           | Units: mg/Kg | Prep Date: 4/3/2014     |          |           | RunNo: 1125  |      |          |      |
| Client ID: | LCSS        | Batch ID: 756 | TestNo: SW6010C     |           | SW3050B      | Analysis Date: 4/3/2014 |          |           | SeqNo: 18318 |      |          |      |
| Analyte    |             | Result        | PQL                 | SPK value | SPK Ref Val  | %REC                    | LowLimit | HighLimit | RPD Ref Val  | %RPD | RPDLimit | Qual |
| Aluminum   |             | 39.5          | 0.400               | 40.00     | 0            | 98.7                    | 80       | 120       |              |      |          |      |
| Antimony   |             | 39.3          | 0.500               | 40.00     | 0            | 98.2                    | 80       | 120       |              |      |          |      |
| Arsenic    |             | 39.0          | 0.500               | 40.00     | 0            | 97.5                    | 80       | 120       |              |      |          |      |
| Barium     |             | 40.3          | 0.400               | 40.00     | 0            | 101                     | 80       | 120       |              |      |          |      |
| Beryllium  |             | 38.8          | 0.400               | 40.00     | 0            | 96.9                    | 80       | 120       |              |      |          |      |
| Cadmium    |             | 39.0          | 0.400               | 40.00     | 0            | 97.6                    | 80       | 120       |              |      |          |      |
| Calcium    |             | 39.7          | 0.500               | 40.00     | 0            | 99.3                    | 80       | 120       |              |      |          |      |
| Chromium   |             | 39.6          | 0.400               | 40.00     | 0            | 98.9                    | 80       | 120       |              |      |          |      |
| Cobalt     |             | 39.4          | 0.400               | 40.00     | 0            | 98.5                    | 80       | 120       |              |      |          |      |
| Copper     |             | 40.0          | 0.400               | 40.00     | 0            | 100                     | 80       | 120       |              |      |          |      |
| Iron       |             | 39.7          | 0.400               | 40.00     | 0            | 99.3                    | 80       | 120       |              |      |          |      |
| Lead       |             | 39.1          | 0.400               | 40.00     | 0            | 97.9                    | 80       | 120       |              |      |          |      |
| Magnesium  |             | 39.2          | 0.400               | 40.00     | 0            | 98.1                    | 80       | 120       |              |      |          |      |
| Manganese  |             | 39.6          | 0.400               | 40.00     | 0            | 99.0                    | 80       | 120       |              |      |          |      |
| Nickel     |             | 39.6          | 0.400               | 40.00     | 0            | 99.0                    | 80       | 120       |              |      |          |      |
| Potassium  |             | 394           | 0.500               | 400.0     | 0            | 98.6                    | 80       | 120       |              |      |          |      |
| Selenium   |             | 38.8          | 0.500               | 40.00     | 0            | 96.9                    | 80       | 120       |              |      |          |      |
| Silver     |             | 39.6          | 0.400               | 40.00     | 0            | 99.1                    | 80       | 120       |              |      |          |      |
| Sodium     |             | 39.4          | 0.500               | 40.00     | 0            | 98.5                    | 80       | 120       |              |      |          |      |
| Thallium   |             | 39.5          | 0.500               | 40.00     | 0            | 98.9                    | 80       | 120       |              |      |          |      |
| Vanadium   |             | 39.9          | 0.400               | 40.00     | 0            | 99.7                    | 80       | 120       |              |      |          |      |
| Zinc       |             | 38.9          | 0.400               | 40.00     | 0            | 97.2                    | 80       | 120       |              |      |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 756

|            |                |           |           |             |           |          |           |                |          |          |       |
|------------|----------------|-----------|-----------|-------------|-----------|----------|-----------|----------------|----------|----------|-------|
| Sample ID  | 1404017-001BMS | SampType: | MS        | TestCode:   | ICPSCAN_S | Units:   | mg/Kg-dry | Prep Date:     | 4/3/2014 | RunNo:   | 1125  |
| Client ID: | BatchQC        | Batch ID: | 756       | TestNo:     | SW6010C   | SW3050B  |           | Analysis Date: | 4/3/2014 | SeqNo:   | 18322 |
| Analyte    | Result         | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Aluminum   | 4040           | 1.66      | 83.00     | 4087        | -55.3     | 75       | 125       |                |          |          | S     |
| Antimony   | 81.6           | 2.08      | 83.00     | 0           | 98.4      | 75       | 125       |                |          |          |       |
| Arsenic    | 82.6           | 2.08      | 83.00     | 2.702       | 96.3      | 75       | 125       |                |          |          |       |
| Barium     | 99.3           | 1.66      | 83.00     | 17.25       | 98.9      | 75       | 125       |                |          |          |       |
| Beryllium  | 77.6           | 1.66      | 83.00     | 0           | 93.5      | 75       | 125       |                |          |          |       |
| Cadmium    | 78.7           | 1.66      | 83.00     | 0           | 94.9      | 75       | 125       |                |          |          |       |
| Calcium    | 7080           | 2.08      | 83.00     | 7218        | -160      | 75       | 125       |                |          |          | S     |
| Chromium   | 91.5           | 1.66      | 83.00     | 10.34       | 97.8      | 75       | 125       |                |          |          |       |
| Cobalt     | 34.5           | 1.66      | 83.00     | 1.904       | 39.3      | 75       | 125       |                |          |          | S     |
| Copper     | 94.4           | 1.66      | 83.00     | 8.837       | 103       | 75       | 125       |                |          |          |       |
| Iron       | 6460           | 1.66      | 83.00     | 6585        | -157      | 75       | 125       |                |          |          | S     |
| Lead       | 84.1           | 1.66      | 83.00     | 7.922       | 91.8      | 75       | 125       |                |          |          |       |
| Magnesium  | 4350           | 1.66      | 83.00     | 4416        | -81.2     | 75       | 125       |                |          |          | S     |
| Manganese  | 424            | 1.66      | 83.00     | 357.3       | 80.7      | 75       | 125       |                |          |          |       |
| Nickel     | 83.5           | 1.66      | 83.00     | 5.459       | 94.0      | 75       | 125       |                |          |          |       |
| Potassium  | 1270           | 2.08      | 830.0     | 300.3       | 117       | 75       | 125       |                |          |          |       |
| Selenium   | 79.1           | 2.08      | 83.00     | 0           | 95.4      | 75       | 125       |                |          |          |       |
| Silver     | 80.7           | 1.66      | 83.00     | 0           | 97.3      | 75       | 125       |                |          |          |       |
| Sodium     | 134            | 2.08      | 83.00     | 47.63       | 104       | 75       | 125       |                |          |          |       |
| Thallium   | 79.7           | 2.08      | 83.00     | 0           | 96.0      | 75       | 125       |                |          |          |       |
| Vanadium   | 97.0           | 1.66      | 83.00     | 13.32       | 101       | 75       | 125       |                |          |          |       |
| Zinc       | 101            | 1.66      | 83.00     | 21.52       | 95.5      | 75       | 125       |                |          |          |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 756

|            |                 |           |           |             |           |          |           |                |          |          |       |
|------------|-----------------|-----------|-----------|-------------|-----------|----------|-----------|----------------|----------|----------|-------|
| Sample ID  | 1404017-001BMSD | SampType: | MSD       | TestCode:   | ICPSCAN_S | Units:   | mg/Kg-dry | Prep Date:     | 4/3/2014 | RunNo:   | 1125  |
| Client ID: | BatchQC         | Batch ID: | 756       | TestNo:     | SW6010C   | SW3050B  |           | Analysis Date: | 4/3/2014 | SeqNo:   | 18323 |
| Analyte    | Result          | PQL       | SPK value | SPK Ref Val | %REC      | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Aluminum   | 4040            | 1.66      | 83.00     | 4087        | -61.4     | 75       | 125       | 4041           | 0.126    | 20       | S     |
| Antimony   | 82.3            | 2.08      | 83.00     | 0           | 99.1      | 75       | 125       | 81.65          | 0.783    | 20       |       |
| Arsenic    | 82.6            | 2.08      | 83.00     | 2.702       | 96.2      | 75       | 125       | 82.63          | 0.0629   | 20       |       |
| Barium     | 99.4            | 1.66      | 83.00     | 17.25       | 99.0      | 75       | 125       | 99.33          | 0.0643   | 20       |       |
| Beryllium  | 77.6            | 1.66      | 83.00     | 0           | 93.5      | 75       | 125       | 77.63          | 0.0431   | 20       |       |
| Cadmium    | 78.7            | 1.66      | 83.00     | 0           | 94.8      | 75       | 125       | 78.74          | 0.0896   | 20       |       |
| Calcium    | 7060            | 2.08      | 83.00     | 7218        | -190      | 75       | 125       | 7085           | 0.354    | 20       | S     |
| Chromium   | 91.5            | 1.66      | 83.00     | 10.34       | 97.8      | 75       | 125       | 91.51          | 0.0136   | 20       |       |
| Cobalt     | 34.6            | 1.66      | 83.00     | 1.904       | 39.3      | 75       | 125       | 34.55          | 0.0331   | 20       | S     |
| Copper     | 94.3            | 1.66      | 83.00     | 8.837       | 103       | 75       | 125       | 94.36          | 0.0572   | 20       |       |
| Iron       | 6470            | 1.66      | 83.00     | 6585        | -142      | 75       | 125       | 6455           | 0.183    | 20       | S     |
| Lead       | 84.1            | 1.66      | 83.00     | 7.922       | 91.7      | 75       | 125       | 84.14          | 0.0829   | 20       |       |
| Magnesium  | 4350            | 1.66      | 83.00     | 4416        | -83.8     | 75       | 125       | 4349           | 0.0504   | 20       | S     |
| Manganese  | 425             | 1.66      | 83.00     | 357.3       | 81.8      | 75       | 125       | 424.2          | 0.213    | 20       |       |
| Nickel     | 83.2            | 1.66      | 83.00     | 5.459       | 93.7      | 75       | 125       | 83.46          | 0.295    | 20       |       |
| Potassium  | 1270            | 2.08      | 830.0     | 300.3       | 117       | 75       | 125       | 1270           | 0.126    | 20       |       |
| Selenium   | 78.8            | 2.08      | 83.00     | 0           | 95.0      | 75       | 125       | 79.14          | 0.370    | 20       |       |
| Silver     | 81.0            | 1.66      | 83.00     | 0           | 97.6      | 75       | 125       | 80.72          | 0.344    | 20       |       |
| Sodium     | 133             | 2.08      | 83.00     | 47.63       | 103       | 75       | 125       | 133.8          | 0.287    | 20       |       |
| Thallium   | 79.5            | 2.08      | 83.00     | 0           | 95.8      | 75       | 125       | 79.69          | 0.206    | 20       |       |
| Vanadium   | 96.9            | 1.66      | 83.00     | 13.32       | 101       | 75       | 125       | 96.98          | 0.0659   | 20       |       |
| Zinc       | 100             | 1.66      | 83.00     | 21.52       | 94.8      | 75       | 125       | 100.8          | 0.580    | 20       |       |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 756

|            |                   |           |             |           |                  |                |              |                |                 |             |                    |
|------------|-------------------|-----------|-------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID  | <b>MBS040314A</b> | SampType: | <b>MBLK</b> | TestCode: | <b>ICPSCAN_S</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1115</b>        |
| Client ID: | <b>PBS</b>        | Batch ID: | <b>756</b>  | TestNo:   | <b>SW6010C</b>   | <b>SW3050B</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>18065</b>       |
| Analyte    |                   | Result    |             | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Arsenic    |                   | ND        |             | 0.500     |                  |                |              |                |                 |             | U                  |
| Cadmium    |                   | ND        |             | 0.400     |                  |                |              |                |                 |             | U                  |
| Lead       |                   | ND        |             | 0.400     |                  |                |              |                |                 |             | U                  |

|            |                    |           |            |           |                  |                |              |                |                 |             |                    |
|------------|--------------------|-----------|------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID  | <b>LCSS040314A</b> | SampType: | <b>LCS</b> | TestCode: | <b>ICPSCAN_S</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1115</b>        |
| Client ID: | <b>LCSS</b>        | Batch ID: | <b>756</b> | TestNo:   | <b>SW6010C</b>   | <b>SW3050B</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>18066</b>       |
| Analyte    |                    | Result    |            | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Arsenic    |                    | 39.0      |            | 0.500     | 40.00            | 0              | 97.5         | 80             | 120             |             |                    |
| Cadmium    |                    | 39.0      |            | 0.400     | 40.00            | 0              | 97.6         | 80             | 120             |             |                    |
| Lead       |                    | 39.1      |            | 0.400     | 40.00            | 0              | 97.9         | 80             | 120             |             |                    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 757

|            |            |           |        |           |             |         |          |                |             |        |          |      |
|------------|------------|-----------|--------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID  | MBS040314A | SampType: | MBLK   | TestCode: | HG_S        | Units:  | mg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1122     |      |
| Client ID: | PBS        | Batch ID: | 757    | TestNo:   | SW7471B     | SW7471B |          | Analysis Date: | 4/3/2014    | SeqNo: | 18102    |      |
| Analyte    |            | Result    | PQL    | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Mercury    |            | ND        | 0.0120 |           |             |         |          |                |             |        |          | U    |

|            |             |           |        |           |             |         |          |                |             |        |          |      |
|------------|-------------|-----------|--------|-----------|-------------|---------|----------|----------------|-------------|--------|----------|------|
| Sample ID  | LCSS040314A | SampType: | LCS    | TestCode: | HG_S        | Units:  | mg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1122     |      |
| Client ID: | LCSS        | Batch ID: | 757    | TestNo:   | SW7471B     | SW7471B |          | Analysis Date: | 4/3/2014    | SeqNo: | 18103    |      |
| Analyte    |             | Result    | PQL    | SPK value | SPK Ref Val | %REC    | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Mercury    |             | 0.216     | 0.0120 | 0.2000    | 0           | 108     | 80       | 120            |             |        |          |      |

|            |                |           |        |           |             |         |           |                |             |        |          |      |
|------------|----------------|-----------|--------|-----------|-------------|---------|-----------|----------------|-------------|--------|----------|------|
| Sample ID  | 1404028-001BMS | SampType: | MS     | TestCode: | HG_S        | Units:  | mg/Kg-dry | Prep Date:     | 4/3/2014    | RunNo: | 1122     |      |
| Client ID: | BatchQC        | Batch ID: | 757    | TestNo:   | SW7471B     | SW7471B |           | Analysis Date: | 4/3/2014    | SeqNo: | 18130    |      |
| Analyte    |                | Result    | PQL    | SPK value | SPK Ref Val | %REC    | LowLimit  | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Mercury    |                | 0.526     | 0.0144 | 0.2404    | 0.1605      | 152     | 80        | 120            |             |        |          | S    |

|            |                 |               |                 |                  |                         |              |           |             |       |          |      |
|------------|-----------------|---------------|-----------------|------------------|-------------------------|--------------|-----------|-------------|-------|----------|------|
| Sample ID  | 1404028-001BMSD | SampType: MSD | TestCode: HG_S  | Units: mg/Kg-dry | Prep Date: 4/3/2014     | RunNo: 1122  |           |             |       |          |      |
| Client ID: | BatchQC         | Batch ID: 757 | TestNo: SW7471B | SW7471B          | Analysis Date: 4/3/2014 | SeqNo: 18131 |           |             |       |          |      |
| Analyte    | Result          | PQL           | SPK value       | SPK Ref Val      | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Mercury    | 0.530           | 0.0144        | 0.2404          | 0.1605           | 154                     | 80           | 120       | 0.5258      | 0.797 | 20       | S    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 764

|                  |                |           |            |           |                  |                |              |                |                 |             |                    |
|------------------|----------------|-----------|------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID        | <b>LCS-764</b> | SampType: | <b>LCS</b> | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1161</b>        |
| Client ID:       | <b>LCSS</b>    | Batch ID: | <b>764</b> | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19511</b>       |
| Analyte          |                | Result    |            | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH    |                | 24.6      |            | 10.0      | 25.00            | 0              | 98.2         | 37             | 134             |             |                    |
| Surr: Toluene-d8 |                | 0.0490    |            |           | 0.05000          |                | 98.0         | 63             | 135             |             |                    |

|                  |               |           |             |           |                  |                |              |                |                 |             |                    |
|------------------|---------------|-----------|-------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID        | <b>MB-764</b> | SampType: | <b>MBLK</b> | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1161</b>        |
| Client ID:       | <b>PBS</b>    | Batch ID: | <b>764</b>  | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19512</b>       |
| Analyte          |               | Result    |             | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH    |               | ND        |             | 10.0      |                  |                |              |                |                 |             | U                  |
| Surr: Toluene-d8 |               | 0.0500    |             |           | 0.05000          |                | 100          | 63             | 135             |             |                    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 764

|                  |                |           |            |           |                  |                |              |                |                 |             |                    |
|------------------|----------------|-----------|------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID        | <b>LCS-764</b> | SampType: | <b>LCS</b> | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1119</b>        |
| Client ID:       | <b>LCSS</b>    | Batch ID: | <b>764</b> | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19599</b>       |
| Analyte          |                | Result    |            | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH    |                | 24.6      |            | 10.0      | 25.00            | 0              | 98.2         | 37             | 134             |             |                    |
| Surr: Toluene-d8 |                | 0.0490    |            |           | 0.05000          |                | 98.0         | 63             | 135             |             |                    |

|                  |               |           |             |           |                  |                |              |                |                 |             |                    |
|------------------|---------------|-----------|-------------|-----------|------------------|----------------|--------------|----------------|-----------------|-------------|--------------------|
| Sample ID        | <b>MB-764</b> | SampType: | <b>MBLK</b> | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1119</b>        |
| Client ID:       | <b>PBS</b>    | Batch ID: | <b>764</b>  | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |              | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19600</b>       |
| Analyte          |               | Result    |             | PQL       | SPK value        | SPK Ref Val    | %REC         | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH    |               | ND        |             | 10.0      |                  |                |              |                |                 |             | U                  |
| Surr: Toluene-d8 |               | 0.0500    |             |           | 0.05000          |                | 100          | 63             | 135             |             |                    |

|                  |                       |           |            |           |                  |                |                  |                |                 |             |                    |
|------------------|-----------------------|-----------|------------|-----------|------------------|----------------|------------------|----------------|-----------------|-------------|--------------------|
| Sample ID        | <b>1404020-014AMS</b> | SampType: | <b>MS</b>  | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg-dry</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1119</b>        |
| Client ID:       | <b>BatchQC</b>        | Batch ID: | <b>764</b> | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |                  | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19607</b>       |
| Analyte          |                       | Result    |            | PQL       | SPK value        | SPK Ref Val    | %REC             | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH    |                       | 22.2      |            | 11.5      | 28.87            | 0              | 76.9             | 22             | 124             |             |                    |
| Surr: Toluene-d8 |                       | 0.0647    |            |           | 0.05774          |                | 112              | 63             | 135             |             |                    |

|               |                        |           |            |           |                  |                |                  |                |                 |             |                    |
|---------------|------------------------|-----------|------------|-----------|------------------|----------------|------------------|----------------|-----------------|-------------|--------------------|
| Sample ID     | <b>1404020-014AMSD</b> | SampType: | <b>MSD</b> | TestCode: | <b>8015GROTO</b> | Units:         | <b>mg/Kg-dry</b> | Prep Date:     | <b>4/3/2014</b> | RunNo:      | <b>1119</b>        |
| Client ID:    | <b>BatchQC</b>         | Batch ID: | <b>764</b> | TestNo:   | <b>SW8015D</b>   | <b>SW5035A</b> |                  | Analysis Date: | <b>4/3/2014</b> | SeqNo:      | <b>19608</b>       |
| Analyte       |                        | Result    |            | PQL       | SPK value        | SPK Ref Val    | %REC             | LowLimit       | HighLimit       | RPD Ref Val | %RPD RPDLimit Qual |
| Total GRO TPH |                        | 18.8      |            | 11.6      | 29.04            | 0              | 64.8             | 22             | 124             | 22.21       | 16.5 20            |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac

**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 764

|                    |                 |                 |                     |                         |                     |             |           |             |      |          |      |
|--------------------|-----------------|-----------------|---------------------|-------------------------|---------------------|-------------|-----------|-------------|------|----------|------|
| Sample ID          | 1404020-014AMSD | SampType: MSD   | TestCode: 8015GROTO | Units: mg/Kg-dry        | Prep Date: 4/3/2014 | RunNo: 1119 |           |             |      |          |      |
| Client ID: BatchQC | Batch ID: 764   | TestNo: SW8015D | SW5035A             | Analysis Date: 4/3/2014 | SeqNo: 19608        |             |           |             |      |          |      |
| Analyte            | Result          | PQL             | SPK value           | SPK Ref Val             | %REC                | LowLimit    | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8   | 0.0511          |                 | 0.05808             |                         | 88.0                | 63          | 135       |             | 0    | 0        |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 765

|                   |        |           |      |           |            |             |       |                |          |           |             |      |          |      |
|-------------------|--------|-----------|------|-----------|------------|-------------|-------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID         | MB-765 | SampType: | MBLK | TestCode: | 8015DROTOT | Units:      | mg/Kg | Prep Date:     | 4/3/2014 | RunNo:    | 1143        |      |          |      |
| Client ID:        | PBS    | Batch ID: | 765  | TestNo:   | SW8015D    | SW3546      |       | Analysis Date: | 4/4/2014 | SeqNo:    | 19104       |      |          |      |
| Analyte           |        | Result    |      | PQL       | SPK value  | SPK Ref Val |       | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total DRO TPH     |        | ND        |      | 5.0       |            |             |       |                |          |           |             |      |          | U    |
| Surr: o-Terphenyl |        | 0.75      |      |           | 0.9975     |             |       | 75.6           | 20       | 140       |             |      |          |      |

|                   |         |           |           |             |            |          |           |                |          |          |       |
|-------------------|---------|-----------|-----------|-------------|------------|----------|-----------|----------------|----------|----------|-------|
| Sample ID         | LCS-765 | SampType: | LCS       | TestCode:   | 8015DROTOT | Units:   | mg/Kg     | Prep Date:     | 4/3/2014 | RunNo:   | 1143  |
| Client ID:        | LCSS    | Batch ID: | 765       | TestNo:     | SW8015D    | SW3546   |           | Analysis Date: | 4/4/2014 | SeqNo:   | 19105 |
| Analyte           | Result  | PQL       | SPK value | SPK Ref Val | %REC       | LowLimit | HighLimit | RPD Ref Val    | %RPD     | RPDLimit | Qual  |
| Total DRO TPH     | 79      | 5.0       | 99.01     | 0           | 79.5       | 21       | 137       |                |          |          |       |
| Surr: o-Terphenyl | 0.74    |           | 0.9901    |             | 74.9       | 20       | 140       |                |          |          |       |

|                   |                |           |     |           |            |             |           |                |           |             |       |          |      |
|-------------------|----------------|-----------|-----|-----------|------------|-------------|-----------|----------------|-----------|-------------|-------|----------|------|
| Sample ID         | 1404020-001AMS | SampType: | MS  | TestCode: | 8015DROTOT | Units:      | mg/Kg-dry | Prep Date:     | 4/3/2014  | RunNo:      | 1143  |          |      |
| Client ID:        | BatchQC        | Batch ID: | 765 | TestNo:   | SW8015D    | SW3546      |           | Analysis Date: | 4/5/2014  | SeqNo:      | 19130 |          |      |
| Analyte           |                | Result    |     | PQL       | SPK value  | SPK Ref Val | %REC      | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Total DRO TPH     |                | 420       |     | 6.0       | 120.6      | 710.4       | -238      | 21             | 137       |             |       |          | S    |
| Surr: o-Terphenyl |                | 0.65      |     |           | 1.206      |             | 53.6      | 20             | 140       |             |       |          |      |

|               |                 |               |                      |                  |                         |              |           |             |      |          |      |
|---------------|-----------------|---------------|----------------------|------------------|-------------------------|--------------|-----------|-------------|------|----------|------|
| Sample ID     | 1404020-001AMSD | SampType: MSD | TestCode: 8015DROTOT | Units: mg/Kg-dry | Prep Date: 4/3/2014     | RunNo: 1143  |           |             |      |          |      |
| Client ID:    | BatchQC         | Batch ID: 765 | TestNo: SW8015D      | SW3546           | Analysis Date: 4/5/2014 | SeqNo: 19131 |           |             |      |          |      |
| Analyte       | Result          | PQL           | SPK value            | SPK Ref Val      | %REC                    | LowLimit     | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total DRO TPH | 510             | 6.3           | 125.3                | 710.4            | -158                    | 21           | 137       | 655.9       | 24.4 | 20       | RS   |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac

**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 765

|                   |                 |           |     |           |            |             |           |                |           |             |       |          |      |
|-------------------|-----------------|-----------|-----|-----------|------------|-------------|-----------|----------------|-----------|-------------|-------|----------|------|
| Sample ID         | 1404020-001AMSD | SampType: | MSD | TestCode: | 8015DROTOT | Units:      | mg/Kg-dry | Prep Date:     | 4/3/2014  | RunNo:      | 1143  |          |      |
| Client ID:        | BatchQC         | Batch ID: | 765 | TestNo:   | SW8015D    | SW3546      |           | Analysis Date: | 4/5/2014  | SeqNo:      | 19131 |          |      |
| Analyte           |                 | Result    |     | PQL       | SPK value  | SPK Ref Val | %REC      | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Surr: o-Terphenyl |                 | 0.70      |     |           | 1.253      |             | 56.0      | 20             | 140       |             | 0     | 0        |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1146</b>  |
| Client ID:                | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19199</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 39             | 5.0       | 50.00      | 0           | 77.7           | 40       | 125            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 34             | 5.0       | 50.00      | 0           | 67.7           | 35       | 139            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 37             | 5.0       | 50.00      | 0           | 74.8           | 40       | 124            |                |                 |          |              |
| 1,1-Dichloroethane        | 37             | 5.0       | 50.00      | 0           | 73.3           | 33       | 134            |                |                 |          |              |
| 1,1-Dichloroethene        | 38             | 5.0       | 50.00      | 0           | 76.1           | 30       | 141            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 37             | 5.0       | 50.00      | 0           | 74.3           | 33       | 126            |                |                 |          |              |
| 1,2-Dichloroethane        | 35             | 5.0       | 50.00      | 0           | 69.1           | 36       | 131            |                |                 |          |              |
| 1,2-Dichloropropane       | 37             | 5.0       | 50.00      | 0           | 74.9           | 38       | 131            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 39             | 5.0       | 50.00      | 0           | 78.1           | 31       | 130            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 38             | 5.0       | 50.00      | 0           | 75.4           | 33       | 121            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | 39             | 5.0       | 50.00      | 0           | 78.1           | 36       | 138            |                |                 |          |              |
| Benzene                   | 38             | 5.0       | 50.00      | 0           | 75.8           | 36       | 126            |                |                 |          |              |
| Bromodichloromethane      | 37             | 5.0       | 50.00      | 0           | 74.9           | 38       | 125            |                |                 |          |              |
| Bromoform                 | 38             | 5.0       | 50.00      | 0           | 75.5           | 36       | 131            |                |                 |          |              |
| Bromomethane              | 34             | 5.0       | 50.00      | 0           | 68.6           | 23       | 135            |                |                 |          |              |
| Carbon tetrachloride      | 40             | 5.0       | 50.00      | 0           | 79.6           | 37       | 130            |                |                 |          |              |
| Chlorobenzene             | 38             | 5.0       | 50.00      | 0           | 76.7           | 41       | 123            |                |                 |          |              |
| Chloroethane              | 51             | 5.0       | 50.00      | 0           | 103            | 20       | 128            |                |                 |          |              |
| Chloroform                | 37             | 5.0       | 50.00      | 0           | 74.1           | 39       | 125            |                |                 |          |              |
| Chloromethane             | 41             | 5.0       | 50.00      | 0           | 81.7           | 33       | 143            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 39             | 5.0       | 50.00      | 0           | 78.1           | 34       | 125            |                |                 |          |              |
| Dibromochloromethane      | 39             | 5.0       | 50.00      | 0           | 77.3           | 36       | 125            |                |                 |          |              |
| Ethylbenzene              | 42             | 5.0       | 50.00      | 0           | 83.3           | 42       | 124            |                |                 |          |              |
| Methylene chloride        | 21             | 5.0       | 50.00      | 0           | 41.3           | 33       | 135            |                |                 |          | B*           |
| Tetrachloroethene         | 35             | 5.0       | 50.00      | 0           | 70.1           | 30       | 121            |                |                 |          |              |
| Toluene                   | 40             | 5.0       | 50.00      | 0           | 80.9           | 43       | 121            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |                |           |            |             |                |          |                |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1146</b>  |
| Client ID:                 | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19199</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| trans-1,2-Dichloroethene   | 38             | 5.0       | 50.00      | 0           | 76.3           | 32       | 124            |                |                 |          |              |
| trans-1,3-Dichloropropene  | 39             | 5.0       | 50.00      | 0           | 78.8           | 33       | 120            |                |                 |          |              |
| Trichloroethene            | 40             | 5.0       | 50.00      | 0           | 80.9           | 40       | 124            |                |                 |          |              |
| Trichlorofluoromethane     | 53             | 5.0       | 50.00      | 0           | 105            | 35       | 140            |                |                 |          |              |
| Vinyl chloride             | 46             | 5.0       | 50.00      | 0           | 92.7           | 40       | 146            |                |                 |          |              |
| Surr: 4-Bromofluorobenzene | 52             |           | 50.00      |             | 105            | 56       | 133            |                |                 |          |              |
| Surr: Dibromofluoromethane | 48             |           | 50.00      |             | 96.9           | 60       | 132            |                |                 |          |              |
| Surr: Toluene-d8           | 50             |           | 50.00      |             | 99.7           | 69       | 125            |                |                 |          |              |

|                                       |               |           |             |             |                |          |                |                |                 |          |              |
|---------------------------------------|---------------|-----------|-------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                             | <b>MB-766</b> | SampType: | <b>MBLK</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1146</b>  |
| Client ID:                            | <b>PBS</b>    | Batch ID: | <b>766</b>  | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19200</b> |
| Analyte                               | Result        | PQL       | SPK value   | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,1-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethane                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethene                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloropropene                   | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichlorobenzene                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichloropropane                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4,5-Tetramethylbenzene            | ND            | 5.0       |             |             |                |          |                |                |                 |          | U*           |
| 1,2,4-Trichlorobenzene                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1146     |      |
| Client ID:                  | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19200    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromo-3-chloropropane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromoethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloroethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3,5-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dioxane                 |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Butanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| 2-Chloroethyl vinyl ether   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Hexanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| 2-Propanol                  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Isopropyltoluene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Methyl-2-pentanone        |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Acetone                     |        | 6.3       | 10   |           |             |        |          |                |             |        |          | J*   |
| Benzene                     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromobenzene                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromochloromethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromodichloromethane        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromoform                   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                         |        |           |      |           |             |        |          |                |             |        |          |      |
|-------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID               | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1146     |      |
| Client ID:              | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19200    |      |
| Analyte                 |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Bromomethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon disulfide        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon tetrachloride    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorobenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorodifluoromethane   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U*   |
| Diisopropyl ether       |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Ethylbenzene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Freon-114               |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| m,p-Xylene              |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride      |        | 6.3       | 5.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| n-Propylbenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |        |           |      |           |             |        |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1146     |      |
| Client ID:                 | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19200    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| o-Xylene                   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Styrene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Toluene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,3-Dichloropropene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichloroethene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichlorofluoromethane     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl acetate              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl chloride             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Surr: 4-Bromofluorobenzene |        | 52        |      | 50.00     |             | 104    | 56       | 133            |             |        |          |      |
| Surr: Dibromofluoromethane |        | 48        |      | 50.00     |             | 96.8   | 60       | 132            |             |        |          |      |
| Surr: Toluene-d8           |        | 49        |      | 50.00     |             | 97.7   | 69       | 125            |             |        |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1145</b>  |
| Client ID:                | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19177</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 39             | 5.0       | 50.00      | 0           | 77.7           | 40       | 125            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 34             | 5.0       | 50.00      | 0           | 67.7           | 35       | 139            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 37             | 5.0       | 50.00      | 0           | 74.8           | 40       | 124            |                |                 |          |              |
| 1,1-Dichloroethane        | 37             | 5.0       | 50.00      | 0           | 73.3           | 33       | 134            |                |                 |          |              |
| 1,1-Dichloroethene        | 38             | 5.0       | 50.00      | 0           | 76.1           | 30       | 141            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 37             | 5.0       | 50.00      | 0           | 74.3           | 33       | 126            |                |                 |          |              |
| 1,2-Dichloroethane        | 35             | 5.0       | 50.00      | 0           | 69.1           | 36       | 131            |                |                 |          |              |
| 1,2-Dichloropropane       | 37             | 5.0       | 50.00      | 0           | 74.9           | 38       | 131            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 39             | 5.0       | 50.00      | 0           | 78.1           | 31       | 130            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 38             | 5.0       | 50.00      | 0           | 75.4           | 33       | 121            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | 39             | 5.0       | 50.00      | 0           | 78.1           | 36       | 138            |                |                 |          |              |
| Acetone                   | 7.0            | 10        | 50.00      | 0           | 13.9           | 30       | 124            |                |                 |          | BS*          |
| Benzene                   | 38             | 5.0       | 50.00      | 0           | 75.8           | 36       | 126            |                |                 |          |              |
| Bromodichloromethane      | 37             | 5.0       | 50.00      | 0           | 74.9           | 38       | 125            |                |                 |          |              |
| Bromoform                 | 38             | 5.0       | 50.00      | 0           | 75.5           | 36       | 131            |                |                 |          |              |
| Bromomethane              | 34             | 5.0       | 50.00      | 0           | 68.6           | 23       | 135            |                |                 |          |              |
| Carbon tetrachloride      | 40             | 5.0       | 50.00      | 0           | 79.6           | 37       | 130            |                |                 |          |              |
| Chlorobenzene             | 38             | 5.0       | 50.00      | 0           | 76.7           | 41       | 123            |                |                 |          |              |
| Chloroethane              | 51             | 5.0       | 50.00      | 0           | 103            | 20       | 128            |                |                 |          |              |
| Chloroform                | 37             | 5.0       | 50.00      | 0           | 74.1           | 39       | 125            |                |                 |          |              |
| Chloromethane             | 41             | 5.0       | 50.00      | 0           | 81.7           | 33       | 143            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 39             | 5.0       | 50.00      | 0           | 78.1           | 34       | 125            |                |                 |          |              |
| Dibromochloromethane      | 39             | 5.0       | 50.00      | 0           | 77.3           | 36       | 125            |                |                 |          |              |
| Ethylbenzene              | 42             | 5.0       | 50.00      | 0           | 83.3           | 42       | 124            |                |                 |          |              |
| Methylene chloride        | 21             | 5.0       | 50.00      | 0           | 41.3           | 33       | 135            |                |                 |          | B*           |
| Tetrachloroethene         | 35             | 5.0       | 50.00      | 0           | 70.1           | 30       | 121            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |                |           |            |             |                |          |                |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1145</b>  |
| Client ID:                 | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19177</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| Toluene                    | 40             | 5.0       | 50.00      | 0           | 80.9           | 43       | 121            |                |                 |          |              |
| trans-1,2-Dichloroethene   | 38             | 5.0       | 50.00      | 0           | 76.3           | 32       | 124            |                |                 |          |              |
| trans-1,3-Dichloropropene  | 39             | 5.0       | 50.00      | 0           | 78.8           | 33       | 120            |                |                 |          |              |
| Trichloroethene            | 40             | 5.0       | 50.00      | 0           | 80.9           | 40       | 124            |                |                 |          |              |
| Trichlorofluoromethane     | 53             | 5.0       | 50.00      | 0           | 105            | 35       | 140            |                |                 |          |              |
| Vinyl chloride             | 46             | 5.0       | 50.00      | 0           | 92.7           | 40       | 146            |                |                 |          |              |
| Surr: 4-Bromofluorobenzene | 52             |           | 50.00      |             | 105            | 56       | 133            |                |                 |          |              |
| Surr: Dibromofluoromethane | 48             |           | 50.00      |             | 96.9           | 60       | 132            |                |                 |          |              |
| Surr: Toluene-d8           | 50             |           | 50.00      |             | 99.7           | 69       | 125            |                |                 |          |              |

|                                       |               |           |             |             |                |          |                |                |                 |          |              |
|---------------------------------------|---------------|-----------|-------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                             | <b>MB-766</b> | SampType: | <b>MBLK</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1145</b>  |
| Client ID:                            | <b>PBS</b>    | Batch ID: | <b>766</b>  | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/4/2014</b> | SeqNo:   | <b>19178</b> |
| Analyte                               | Result        | PQL       | SPK value   | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,1-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethane                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethene                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloropropene                   | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichlorobenzene                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichloropropane                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4,5-Tetramethylbenzene            | ND            | 5.0       |             |             |                |          |                |                |                 |          | U*           |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1145     |      |
| Client ID:                  | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19178    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2,4-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromo-3-chloropropane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromoethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloroethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3,5-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dioxane                 |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Butanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| 2-Chloroethyl vinyl ether   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Hexanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| 2-Propanol                  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Isopropyltoluene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Methyl-2-pentanone        |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Acetone                     |        | 6.3       | 10   |           |             |        |          |                |             |        |          | J*   |
| Benzene                     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromobenzene                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromochloromethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromodichloromethane        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                         |        |           |      |           |             |        |          |                |             |        |          |      |
|-------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID               | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1145     |      |
| Client ID:              | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19178    |      |
| Analyte                 |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Bromoform               |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromomethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon disulfide        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon tetrachloride    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorobenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorodifluoromethane   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U*   |
| Diisopropyl ether       |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Ethylbenzene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Freon-114               |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| m,p-Xylene              |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride      |        | 6.3       | 5.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |        |           |      |           |             |        |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1145     |      |
| Client ID:                 | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/4/2014    | SeqNo: | 19178    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| n-Propylbenzene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| o-Xylene                   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Styrene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Toluene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,3-Dichloropropene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichloroethene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichlorofluoromethane     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl acetate              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl chloride             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Surr: 4-Bromofluorobenzene |        | 52        |      | 50.00     |             | 104    | 56       | 133            |             |        |          |      |
| Surr: Dibromofluoromethane |        | 48        |      | 50.00     |             | 96.8   | 60       | 132            |             |        |          |      |
| Surr: Toluene-d8           |        | 49        |      | 50.00     |             | 97.7   | 69       | 125            |             |        |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                           |                |           |            |             |                |          |                |                |                 |          |              |
|---------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                 | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1130</b>  |
| Client ID:                | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19093</b> |
| Analyte                   | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1-Trichloroethane     | 40             | 5.0       | 50.00      | 0           | 79.3           | 40       | 125            |                |                 |          |              |
| 1,1,2,2-Tetrachloroethane | 38             | 5.0       | 50.00      | 0           | 76.0           | 35       | 139            |                |                 |          |              |
| 1,1,2-Trichloroethane     | 39             | 5.0       | 50.00      | 0           | 78.9           | 40       | 124            |                |                 |          |              |
| 1,1-Dichloroethane        | 38             | 5.0       | 50.00      | 0           | 76.3           | 33       | 134            |                |                 |          |              |
| 1,1-Dichloroethene        | 39             | 5.0       | 50.00      | 0           | 78.9           | 30       | 141            |                |                 |          |              |
| 1,2-Dichlorobenzene       | 38             | 5.0       | 50.00      | 0           | 76.1           | 33       | 126            |                |                 |          |              |
| 1,2-Dichloroethane        | 38             | 5.0       | 50.00      | 0           | 75.4           | 36       | 131            |                |                 |          |              |
| 1,2-Dichloropropane       | 39             | 5.0       | 50.00      | 0           | 77.9           | 38       | 131            |                |                 |          |              |
| 1,3-Dichlorobenzene       | 40             | 5.0       | 50.00      | 0           | 79.4           | 31       | 130            |                |                 |          |              |
| 1,4-Dichlorobenzene       | 39             | 5.0       | 50.00      | 0           | 77.1           | 33       | 121            |                |                 |          |              |
| 2-Chloroethyl vinyl ether | 44             | 5.0       | 50.00      | 0           | 88.5           | 36       | 138            |                |                 |          |              |
| Benzene                   | 39             | 5.0       | 50.00      | 0           | 78.3           | 36       | 126            |                |                 |          |              |
| Bromodichloromethane      | 39             | 5.0       | 50.00      | 0           | 77.2           | 38       | 125            |                |                 |          |              |
| Bromoform                 | 42             | 5.0       | 50.00      | 0           | 83.0           | 36       | 131            |                |                 |          |              |
| Bromomethane              | 33             | 5.0       | 50.00      | 0           | 66.9           | 23       | 135            |                |                 |          |              |
| Carbon tetrachloride      | 41             | 5.0       | 50.00      | 0           | 81.1           | 37       | 130            |                |                 |          |              |
| Chlorobenzene             | 40             | 5.0       | 50.00      | 0           | 79.6           | 41       | 123            |                |                 |          |              |
| Chloroethane              | 47             | 5.0       | 50.00      | 0           | 93.8           | 20       | 128            |                |                 |          |              |
| Chloroform                | 38             | 5.0       | 50.00      | 0           | 76.9           | 39       | 125            |                |                 |          |              |
| Chloromethane             | 41             | 5.0       | 50.00      | 0           | 82.0           | 33       | 143            |                |                 |          |              |
| cis-1,3-Dichloropropene   | 40             | 5.0       | 50.00      | 0           | 80.7           | 34       | 125            |                |                 |          |              |
| Dibromochloromethane      | 41             | 5.0       | 50.00      | 0           | 81.2           | 36       | 125            |                |                 |          |              |
| Ethylbenzene              | 43             | 5.0       | 50.00      | 0           | 85.6           | 42       | 124            |                |                 |          |              |
| Methylene chloride        | 21             | 5.0       | 50.00      | 0           | 42.4           | 33       | 135            |                |                 |          | B*           |
| Tetrachloroethene         | 33             | 5.0       | 50.00      | 0           | 66.2           | 30       | 121            |                |                 |          |              |
| Toluene                   | 41             | 5.0       | 50.00      | 0           | 81.2           | 43       | 121            |                |                 |          |              |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |                |           |            |             |                |          |                |                |                 |          |              |
|----------------------------|----------------|-----------|------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                  | <b>LCS-766</b> | SampType: | <b>LCS</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1130</b>  |
| Client ID:                 | <b>LCSS</b>    | Batch ID: | <b>766</b> | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19093</b> |
| Analyte                    | Result         | PQL       | SPK value  | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| trans-1,2-Dichloroethene   | 39             | 5.0       | 50.00      | 0           | 78.4           | 32       | 124            |                |                 |          |              |
| trans-1,3-Dichloropropene  | 41             | 5.0       | 50.00      | 0           | 82.7           | 33       | 120            |                |                 |          |              |
| Trichloroethene            | 41             | 5.0       | 50.00      | 0           | 82.2           | 40       | 124            |                |                 |          |              |
| Trichlorofluoromethane     | 51             | 5.0       | 50.00      | 0           | 103            | 35       | 140            |                |                 |          |              |
| Vinyl chloride             | 46             | 5.0       | 50.00      | 0           | 91.8           | 40       | 146            |                |                 |          |              |
| Surr: 4-Bromofluorobenzene | 50             |           | 50.00      |             | 101            | 56       | 133            |                |                 |          |              |
| Surr: Dibromofluoromethane | 49             |           | 50.00      |             | 97.5           | 60       | 132            |                |                 |          |              |
| Surr: Toluene-d8           | 49             |           | 50.00      |             | 98.7           | 69       | 125            |                |                 |          |              |

|                                       |               |           |             |             |                |          |                |                |                 |          |              |
|---------------------------------------|---------------|-----------|-------------|-------------|----------------|----------|----------------|----------------|-----------------|----------|--------------|
| Sample ID                             | <b>MB-766</b> | SampType: | <b>MBLK</b> | TestCode:   | <b>8260_S</b>  | Units:   | <b>µg/Kg</b>   | Prep Date:     | <b>4/3/2014</b> | RunNo:   | <b>1130</b>  |
| Client ID:                            | <b>PBS</b>    | Batch ID: | <b>766</b>  | TestNo:     | <b>SW8260C</b> |          | <b>SW5035A</b> | Analysis Date: | <b>4/3/2014</b> | SeqNo:   | <b>19094</b> |
| Analyte                               | Result        | PQL       | SPK value   | SPK Ref Val | %REC           | LowLimit | HighLimit      | RPD Ref Val    | %RPD            | RPDLimit | Qual         |
| 1,1,1,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,1-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2,2-Tetrachloroethane             | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1,2-Trichloroethane                 | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethane                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloroethene                    | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,1-Dichloropropene                   | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichlorobenzene                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,3-Trichloropropane                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4,5-Tetramethylbenzene            | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |
| 1,2,4-Trichlorobenzene                | ND            | 5.0       |             |             |                |          |                |                |                 |          | U            |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                             |        |           |      |           |             |        |          |                |             |        |          |      |
|-----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                   | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1130     |      |
| Client ID:                  | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/3/2014    | SeqNo: | 19094    |      |
| Analyte                     |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromo-3-chloropropane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dibromoethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloroethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3,5-Trimethylbenzene      |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,3-dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dichlorobenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 1,4-Dioxane                 |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2,2-Dichloropropane         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Butanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U*   |
| 2-Chloroethyl vinyl ether   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 2-Hexanone                  |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| 2-Propanol                  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Chlorotoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Isopropyltoluene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| 4-Methyl-2-pentanone        |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Acetone                     |        | 7.6       | 10   |           |             |        |          |                |             |        |          | J*   |
| Benzene                     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromobenzene                |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromochloromethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromodichloromethane        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Bromoform                   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                         |        |           |      |           |             |        |          |                |             |        |          |      |
|-------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID               | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1130     |      |
| Client ID:              | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/3/2014    | SeqNo: | 19094    |      |
| Analyte                 |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Bromomethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon disulfide        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Carbon tetrachloride    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorobenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chlorodifluoromethane   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroethane            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloroform              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Chloromethane           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,2-Dichloroethene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| cis-1,3-Dichloropropene |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Cyclohexane             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromochloromethane    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dibromomethane          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Dichlorodifluoromethane |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U*   |
| Diisopropyl ether       |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Ethanol                 |        | ND        | 20   |           |             |        |          |                |             |        |          | U    |
| Ethylbenzene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Freon-114               |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Hexachlorobutadiene     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Isopropylbenzene        |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| m,p-Xylene              |        | ND        | 10   |           |             |        |          |                |             |        |          | U    |
| Methyl Acetate          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methyl tert-butyl ether |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Methylene chloride      |        | 7.2       | 5.0  |           |             |        |          |                |             |        |          | *    |
| n-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| n-Propylbenzene         |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 766

|                            |        |           |      |           |             |        |          |                |             |        |          |      |
|----------------------------|--------|-----------|------|-----------|-------------|--------|----------|----------------|-------------|--------|----------|------|
| Sample ID                  | MB-766 | SampType: | MBLK | TestCode: | 8260_S      | Units: | µg/Kg    | Prep Date:     | 4/3/2014    | RunNo: | 1130     |      |
| Client ID:                 | PBS    | Batch ID: | 766  | TestNo:   | SW8260C     |        | SW5035A  | Analysis Date: | 4/3/2014    | SeqNo: | 19094    |      |
| Analyte                    |        | Result    | PQL  | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD   | RPDLimit | Qual |
| o-Xylene                   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Diethylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| p-Ethyltoluene             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| sec-Butylbenzene           |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Styrene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| t-Butyl alcohol            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| tert-Butylbenzene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Tetrachloroethene          |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Toluene                    |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,2-Dichloroethene   |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| trans-1,3-Dichloropropene  |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichloroethene            |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Trichlorofluoromethane     |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl acetate              |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Vinyl chloride             |        | ND        | 5.0  |           |             |        |          |                |             |        |          | U    |
| Surr: 4-Bromofluorobenzene |        | 51        |      | 50.00     |             | 103    | 56       | 133            |             |        |          |      |
| Surr: Dibromofluoromethane |        | 49        |      | 50.00     |             | 97.3   | 60       | 132            |             |        |          |      |
| Surr: Toluene-d8           |        | 50        |      | 50.00     |             | 100    | 69       | 125            |             |        |          |      |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## QC SUMMARY REPORT

WO#: 1404010

08-Apr-14

**Client:** Envirotrac  
**Project:** National Grid Williamsburg, 50 Kent Ave., Broo

**BatchID:** 782

|                            |         |           |     |           |           |             |      |                |           |             |       |          |      |
|----------------------------|---------|-----------|-----|-----------|-----------|-------------|------|----------------|-----------|-------------|-------|----------|------|
| Sample ID                  | LCS-782 | SampType: | LCS | TestCode: | 8260_S    | Units:      | %REC | Prep Date:     | 4/7/2014  | RunNo:      | 1145  |          |      |
| Client ID:                 | LCSS    | Batch ID: | 782 | TestNo:   | SW8260C   | SW5035A     |      | Analysis Date: | 4/7/2014  | SeqNo:      | 19766 |          |      |
| Analyte                    |         | Result    |     | PQL       | SPK value | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene |         | 2700      |     |           | 2500      |             | 107  | 56             | 133       |             |       |          |      |
| Surr: Dibromofluoromethane |         | 2400      |     |           | 2500      |             | 97.5 | 60             | 132       |             |       |          |      |
| Surr: Toluene-d8           |         | 2500      |     |           | 2500      |             | 99.1 | 69             | 125       |             |       |          |      |

|                            |        |           |      |           |           |             |       |                |          |           |             |      |          |      |
|----------------------------|--------|-----------|------|-----------|-----------|-------------|-------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID                  | MB-782 | SampType: | MBLK | TestCode: | 8260_S    | Units:      | µg/Kg | Prep Date:     | 4/7/2014 | RunNo:    | 1145        |      |          |      |
| Client ID:                 | PBS    | Batch ID: | 782  | TestNo:   | SW8260C   | SW5035A     |       | Analysis Date: | 4/7/2014 | SeqNo:    | 19767       |      |          |      |
| Analyte                    |        | Result    |      | PQL       | SPK value | SPK Ref Val |       | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene                |        | ND        |      | 250       |           |             |       |                |          |           |             |      |          | DU   |
| Surr: 4-Bromofluorobenzene |        | 2500      |      |           | 2500      |             |       | 102            | 56       | 133       |             |      |          | D    |
| Surr: Dibromofluoromethane |        | 2400      |      |           | 2500      |             |       | 96.2           | 60       | 132       |             |      |          | D    |
| Surr: Toluene-d8           |        | 2500      |      |           | 2500      |             |       | 98.9           | 69       | 125       |             |      |          | D    |

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

**From:** Bryan Nesi  
**To:** ["Michael Rose, PE"](#)  
**Cc:** [Susan Adametz](#); [Jennifer Solewski](#)  
**Subject:** RE: Former Williamsburg MGP site approval  
**Date:** Wednesday, April 09, 2014 10:44:00 AM

---

Morning Mike,

The application for the Former Williamsburg MGP site in Brooklyn, NY has been approved for up to 750T under BSM#2714-0245. Please let us know when you would like to schedule this job into BSM.

Thanks

Bryan

---

**From:** Michael Rose, PE [<mailto:miker@envirotrac.com>]  
**Sent:** Wednesday, April 09, 2014 8:22 AM  
**To:** Susan Adametz  
**Cc:** Bryan Nesi  
**Subject:** RE: GWP and Class B Permit

Hi Susan-

I've attached the soil analytical. If approved, we'd still like to move a 20cy roll-off of soil tomorrow.

Thanks,

---

**From:** Susan Adametz [<mailto:SAdametz@bayshorerecycling.com>]  
**Sent:** Tuesday, April 08, 2014 11:50 AM  
**To:** Michael Rose, PE  
**Cc:** Bryan Nesi  
**Subject:** RE: GWP and Class B Permit

Hi Mike,

I just checked your file here for the **50 Kent Ave Brooklyn NY site** & it has not been approved yet.

Do you have the analytical data? Bryan will have to review data & assign approval number.  
Contact us if you have any questions.

Thanks,  
Susan

---

**From:** Cathleen Vaticano  
**Sent:** Monday, April 07, 2014 2:49 PM  
**To:** Michael Rose, PE  
**Cc:** Susan Adametz  
**Subject:** RE: GWP and Class B Permit

Hello Mike,

Thank you for the signed contract as soon as I have a fully executed copy I will send it over to you.  
Susan, who I have copied on this email would be happy to help you with scheduling.  
Should you have any questions please feel free to contact me.  
Cathleen

---

**From:** Michael Rose, PE [<mailto:miker@envirotrac.com>]  
**Sent:** Monday, April 07, 2014 2:28 PM  
**To:** Cathleen Vaticano  
**Subject:** RE: GWP and Class B Permit

Hi Cathleen-

I've attached the completed profile and signed quotation. I'd like to move one roll-off this Thursday, and one this Friday.

Are we still set with credit card payment? Do you need any other information.

Thanks,

---

**From:** Cathleen Vaticano [<mailto:CVaticano@bayshorerecycling.com>]  
**Sent:** Wednesday, March 05, 2014 4:23 PM  
**To:** Michael Rose, PE  
**Subject:** RE: GWP and Class B Permit

Hello,  
I apologize for the delay.  
I am glad you had the site handy, I recognized the location.  
Should you have any questions please feel free to contact me.  
Cathleen

**Cathleen Vaticano**  
*Sales Representative*  
Bayshore-Logo-Email.jpg



P: 732-738-6000, F: 732-738-9150  
75 Crows Mill Rd. PO Box 290, Keasbey, NJ 08832  
[cvaticano@bayshorerecycling.com](mailto:cvaticano@bayshorerecycling.com)  
[www.bayshorerecycling.com](http://www.bayshorerecycling.com)

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Please consider the environment before printing this email.

---

**From:** Michael Rose, PE [<mailto:miker@envirotrac.com>]  
**Sent:** Wednesday, March 05, 2014 4:20 PM  
**To:** Cathleen Vaticano  
**Subject:** RE: GWP and Class B Permit

Perfect.

Thanks. John never forwarded it to me.

---

**From:** Cathleen Vaticano [<mailto:CVaticano@bayshorerecycling.com>]  
**Sent:** Wednesday, March 05, 2014 4:09 PM  
**To:** Michael Rose, PE  
**Subject:** RE: GWP and Class B Permit

It looks as though we had sent this over previously.  
Take a look at attached.  
Thanks  
Cathleen

---

**From:** Michael Rose, PE [<mailto:miker@envirotrac.com>]  
**Sent:** Wednesday, March 05, 2014 4:06 PM  
**To:** Cathleen Vaticano  
**Subject:** RE: GWP and Class B Permit

Sorry, not yet.

The job is 50 Kent Avenue, Brooklyn NY.

It is a National Grid Site – Former Williamsburg MGP.

I believe you had pricing worked out for our other two Nat Grid sides prior to the GWP. I'll get it to you tomorrow wither way.

---

**From:** Cathleen Vaticano [<mailto:CVaticano@bayshorerecycling.com>]  
**Sent:** Wednesday, March 05, 2014 4:04 PM  
**To:** Michael Rose, PE  
**Subject:** RE: GWP and Class B Permit

Hello,

Have you sent over the GWP?  
Where is the site do you need pricing for?  
Thanks

---

**From:** Michael Rose, PE [<mailto:miker@envirotrac.com>]  
**Sent:** Wednesday, March 05, 2014 4:01 PM  
**To:** Cathleen Vaticano  
**Subject:** RE: GWP and Class B Permit

Hi Cathleen,

Could you forward me pricing? It's a National Grid project. MGP soils for thermal desorption. 100 Tons estimated.

Thanks,

---

**From:** Cathleen Vaticano [<mailto:CVaticano@bayshorerecycling.com>]  
**Sent:** Thursday, February 20, 2014 1:46 PM  
**To:** Michael Rose, PE  
**Subject:** GWP and Class B Permit

Hello,

Please see attached per your request.

Thank you

Cathleen

**Cathleen Vaticano**  
*Sales Representative*  
Bayshore-Logo-Email.jpg



P: 732-738-6000, F: 732-738-9150  
75 Crows Mill Rd. PO Box 290, Keasbey, NJ 08832  
[cvaticano@bayshorerecycling.com](mailto:cvaticano@bayshorerecycling.com)  
[www.bayshorerecycling.com](http://www.bayshorerecycling.com)

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Michael Rose, PE | Senior Engineer | EnviroTrac Ltd. | 5 Old Dock Road, Yaphank NY 11980  
631.924.3001 (Office) | 631.924.5001 (Fax) | 631.433.8883 (Cell) | [miker@envirotrac.com](mailto:miker@envirotrac.com)

---

Solutions in Action - <http://www.envirotrac.com>

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# Acknowledgment of Treatment and Recycling

Bayshore Soil Management, LLC hereby acknowledges

*The Thermal Treatment*

Of 29.53 Tons of

Coal Tar Contaminated Soil  
(Received on 4/10/14 & 4/29/14)

From the Former Williamsburg MGP Site, Brooklyn, NY



---

**Bayshore Soil Management, LLC.**

**August 20, 2014**

AIR: Facility ID Number 18437; Permit PCP100001

CLASS B: Facility ID Number 132397; Permit CBG110002

Keasbey, New Jersey

Certificate Number 2714-0245-082014

14-20769

Please print or type  
(Form designed for use on elite (12-pitch) typewriter.)

# NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No.

2714-0245

Manifest Doc. No.

58081

2. Page 1  
of

3. Generator's Name and Mailing Address

The American Union Gas Company  
2101 National Road NE  
One Station Center  
Franklin, MS 39201

4. Generator's Phone ( 716 ) 963 5453

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Bayshore Soil Management  
25 Evans Mill Road  
PO Box 290 Kew-Forest, NY

10. US EPA ID Number

C. Facility's Phone

732 738 6006

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a.

MG P Soils

combined # 202443

0.01 CM

2014 Yds

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

DONALD P. CAMPBELL

Signature

Donald P. Campbell

Month Day Year

04 10 14

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Martin Velasquez

Signature

Martin Velasquez

Month Day Year

09 10 14

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

. . .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

[Signature]

Signature

[Signature]

Month Day Year

14 10 14

TRANSPORTER #2

Bayshore Recycling Corp.  
100 BOX 230  
Kearney, NJ 08832

Facility ID: 132397

Ticket: 330673

Date: 4/10/2014

Time: 09:55:37 - 10:42:13

Scale

Customer: ENVIRO TRAC LTD/BSMA155  
5 OLD DUCK ROAD

Gross: 69860 lb In Scale 2

Tare: 34920 lb Out Scale 3

Truck: 37370PC

Net: 34940 lb

CUYDs: 20

License: 37370PC

Truck type: ROLLOFF

Carrier: AARCO ENVIRONMENTAL SER

Manifest: 58081

Profile: 2714-0245/FORMER WILLIAMSBURG MGP

Remaining: 0.00 TN

Generator: FORMER WILLIAMSBURG MGP

Comment:

Origin

Materials & Services

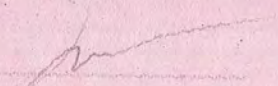
Quantity Unit

Brooklyn

ID27 NHCT

17.47 Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: 

Weighmaster: Mark

# BAYSHORE

Your recycling solution.

75 Crows Mill Road, P.O. Box 290

Keasbey, New Jersey 08832

Phone: (732) 738-6000 • Fax: (732) 738-9150

www.bayshorerecycling.com • info@bayshorerecycling.com

---

May 22, 2014

Mike R.  
Enviro-Trac  
400 Corporate Court  
Suite E  
South Plainfield, New Jersey 07080

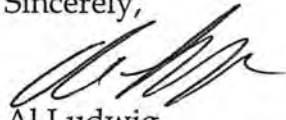
**Re: Certification of Clean Fill**

Dear Mike,

As you know, Bayshore Recycling Corp (BRC) is a NJDEP licensed Class B facility located within Block 51, Lots 1, 1-B, 1-R, 2-B and 2-C; Block 52, Lot 1; and Block 41C, Lots 3-B, 3-R, and 4-B; Woodbridge Township, New Jersey. This letter is to certify that soils picked up on April 10th (ticket #'s 330673) meet the New Jersey Residential Soil Remediation Standards under the guidelines of the New Jersey Cleanup Standards. The remediation standards rules are set forth by the New Jersey Department of Environmental Protection at N.J.A.C. 7:26D.

If you need further information you may contact me at 732-738-6000.

Sincerely,



Al Ludwig  
Senior Vice President

Please print or type  
(Form designed for use on elite (12-pitch) typewriter.)

14-20769

**NON-HAZARDOUS  
WATER MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1  
of

58083

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

a.

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year

T/S/D/F COPY

14-00769

Bayshore Recycling Corp.  
75 Crows Mill Rd  
PO Box 290  
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 337863

Date: 4/29/2014

Time: 10:07:01 - 11:42:36

Scale

Customer: ENVIRO TRAC LTD/B3M0155  
5 OLD DOCK ROAD  
YAPHANK, NY 11980

Gross: 60020 lb In Scale 2

Tare: 35900 lb Out Scale 3

Net: 24120 lb

Truck: 16429PC

CUDs: 20

License: 16429PC

Truck Type: ROLLOFF

Carrier: AARCO ENVIRONMENTAL SER

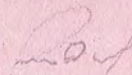
Manifest: 58083

Remaining: 0.00 TN

Profile: 2714-0245/FORMER WILLIAMSBURG MGP  
Generator: FORMER WILLIAMSBURG MGP  
Comment:

| Origin   | Materials & Services | Quantity Unit |
|----------|----------------------|---------------|
| Brooklyn | ID27 NHCT            | 12.06 Tons    |

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: 

Weighmaster: Mark

# BAYSHORE

Your recycling solution.

75 Crows Mill Road, P.O. Box 290

Keasbey, New Jersey 08832

Phone: (732) 738-6000 • Fax: (732) 738-9150

www.bayshorerecycling.com • info@bayshorerecycling.com

May 22, 2014

Mike R.

Enviro-Trac

400 Corporate Court

Suite E

South Plainfield, New Jersey 07080

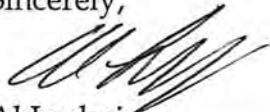
**Re: Certification of Clean Fill**

Dear Mike,

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If you need further information you may contact me at 732-738-6000.

Sincerely,



Al Ludwig

Senior Vice President