



# FINAL ENGINEERING REPORT

Little Falls (Mill Street)  
Former Manufactured Gas Plant Site  
NYSDEC Voluntary Cleanup  
Order Index No.: D0-001-0011  
VCO Site No. V00470  
(NYSDEC Site Number 622034)

December 2020

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned on the right side of the page. It extends from the top right corner towards the bottom left, partially overlapping the text area.

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I, James M. Nuss, certify that I am currently a New York State-registered Professional Engineer, I had direct primary responsibility for the implementation of the subject construction programs, and certify that the Remedial Designs were implemented, and that all construction activities were completed, in substantial conformance with the DER-approved Remedial Designs.

All use restrictions, institutional controls, engineering controls, and/or any operation and maintenance requirements applicable to the site are contained in a Declaration of Covenants and Restrictions (Deed Notice) created and recorded pursuant to ECL 71-3605 and that any affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

A Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of any engineering controls employed at the site, including the proper maintenance of any remaining monitoring wells, and that such plan has been approved by DER.

I certify that all information and statements in the certification 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, James M. Nuss, of Arcadis of New York, Inc. am certifying on behalf of the Responsible Party (National Grid) for the site.



James M. Nuss, PE  
NYS PE License 067963

12/15/2020  
Date

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## ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis of New York, Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
COC	constituent of concern
cy	in-situ cubic yard
FER	Final Engineering Report
ISS	In-Situ Stabilization
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
NRSC	National Resources Conservation Service
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OHSWA	Oneida-Herkimer Solid Waste Authority
PAH	polycyclic aromatic hydrocarbon
PCBs	polychlorinated biphenyls
PM <sub>10</sub>	particulate matter less than 10 micrometers in diameter
ppm	parts per million
psi	pounds per square inch
RAO	remedial action objective
RAWP	Remedial Action Work Plan
RCP	reinforced concrete pipe
RI	remedial investigation
SCO	soil cleanup objective
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SVOC	semi-volatile organic compound
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure

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Thew	Thew Associates, PLLC
TWA	time-weighted average
UCS	Unconfined Compressive Strength
VOC	volatile organic compound

# 1 INTRODUCTION

## 1.1 Purpose

This Final Engineering Report (FER) has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of National Grid, to document the remedial construction activities performed at the former manufactured gas plant (MGP) site in Little Falls, Herkimer County, New York (hereinafter referred to as the “Site”).

This report has been prepared by Arcadis on behalf of National Grid in accordance with the Voluntary Consent Order (VCO, Index No. D0-0001-0011) between National Grid and the New York State Department of Environmental Conservation (NYSDEC). The remedial activities were performed in accordance with the Remedial Action Work Plan (RAWP) prepared by Arcadis (March 2008) and the NYSDEC Decision Document for the Former Little Falls MGP Site, dated March 18, 2008. The site is currently identified as Site No. 622034 under Order Index# CO 7-20180629-27 (the July 2018 non-owned site order).

A brief site description is presented below, followed by a discussion of the physical setting of the Site and a summary of previous site investigations. Additional details are presented in the NYSDEC-approved Remedial Investigation Report (RI Report) prepared by Arcadis (July 2005).

## 1.2 Site Location

The Little Falls former MGP site is located on the south side of East Mill Street in Little Falls, Herkimer County, New York. A Site Location Map is included on Figure 1. The Site is approximately 1.35 acres in size and is situated on the western portion of an approximately 6.5-acre property currently owned by Feldmeier Equipment, Inc. (Feldmeier). As shown on Figures 2 and 3, the Site consists of the portion of the larger Feldmeier-owned property located to the west of the approximate “Line of Demarcation,” which as indicated in the Decision Document has been accepted by National Grid and NYSDEC as the eastern boundary of the former MGP site. The portion of the Feldmeier property located to the east of the Line of Demarcation is subject to a separate Voluntary Cleanup Agreement (VCA) between Feldmeier and the NYSDEC. The former MGP site is bordered by East Mill Street to the north, George Lumber and Building Materials Company (George Lumber) to the west, the Mohawk River to the south, and extends into the tank manufacturing building to the east (owned and operated by Feldmeier) (the “tank manufacturing building”). Adjacent properties located to the north (across East Mill Street), east, and west of the Site are used for industrial and/or commercial purposes. The Site boundaries are more fully described in the Declaration of Covenants and Restrictions (Deed Notice) that was executed for the former MGP site (included in Appendix A).

## 2 SITE BACKGROUND

### 2.1 General

This section provides general information regarding the pre-remediation conditions at the Site and in the off-Site area, including the investigations conducted by National Grid and its consultants.

### 2.2 Topography and Drainage

The southern extent of the Site is generally aligned with the north bank of the Mohawk River. Ground surface elevations at the Site range from approximately 354 feet above mean sea level (amsl) along the top of the bank for the Mohawk River to 363 feet amsl in the northwest corner of the property. The majority of the Site is paved and slopes toward storm sewer catch basins and the Mohawk River. Based on the extent of pavement and structures present at the Site, infiltration of precipitation at and in the immediate vicinity of the Site is limited. Surface runoff from the Site flows from north to south (toward the Mohawk River), with a portion of the paved area draining to a shallow storm sewer drain line (located along the western edge of the tank manufacturing building) that discharges to the Mohawk River. Stormwater flow from off-site areas to the north of the Site is conveyed by an approximately 78-inch diameter (equivalent) elliptical concrete pipe that flows from north to south across the central portion of the parking lot at the Site (approximately 100 feet west of the tank manufacturing building).

The section of the Mohawk River immediately south of the Site flows from west to east at a fairly steep gradient and consists of a relatively shallow, swift-flowing channel that cascades over a series of rock outcrops. The New York State Barge Canal is located approximately 200 feet south of the Mohawk River. The water level in the canal is seasonally controlled by locks that allow vessels to bypass the rapids in the Mohawk River at Little Falls.

### 2.3 Geology and Hydrogeology

The Site is located in the Mohawk River Valley. The United States Department of Agriculture (USDA) Soil Conservation Service document entitled, Soil Survey of Herkimer County, Southern Section (USDA, 1975) identifies surface soil in the Site vicinity as cut and fill land (Cu). This soil designation indicates that native soil in the area has been extensively reworked and that imported fill may have been used for Site grading. Fill material encountered during previous investigations at the Site ranges in depth between 2.3 and 26 feet below grade and consists of a mixture of sand, silt, gravel, and refuse (e.g., brick, concrete, glass, cinders, wood and slag). In general, the fill unit increases in thickness from north to south across the Site. Alluvium was encountered at a majority of the soil borings installed at the Site, with thicknesses ranging from approximately 0.6 feet to 10 feet. Gneiss bedrock is exposed in several rock outcrops along the banks of the Mohawk River near the Site, and bedrock was encountered during previous site investigations at depths ranging from 2 feet below ground surface (bgs) (in the northern portion of the Site) to 28.3 feet bgs (in the southwest portion of the Site). The bedrock surface beneath the Site exhibits several heterogeneities and undulations.

The groundwater table beneath the Site has been encountered at depths ranging from approximately 7.5 to 20 feet below grade. Groundwater was generally encountered within the fill unit or the relatively thin

layer of alluvial overburden that overlies the bedrock. Groundwater within overburden near the Site, although locally distorted due to heterogeneities in the top of bedrock, generally flows in a south-southeast direction discharging to the Mohawk River. Because of its nominal thickness, the alluvium overlying bedrock is not likely to yield substantial water. Groundwater at and in the vicinity of the Site is not used for potable water.

## 2.4 Site History

Historical MGP operations at the Site were primarily located within a small area on the western portion of the Feldmeier property. Historical MGP operations were conducted at the Site from approximately 1853 to approximately 1907. Based on available Sanborn Fire Insurance Maps, buildings and structures associated with the former MGP operation included a coal storage shed, horizontal retorts, gas purifiers, maintenance shops, a warehouse, and several smaller unnamed buildings/structures. The buildings and structures were primarily located within the western portion of the footprint of the current tank manufacturing building. The Sanborn Maps also show that one 50,000-cubic-foot gas holder (the former onsite gas holder) was formerly located adjacent to the Mohawk River, south of the gas works. The Sanborn Maps indicate that approximately 60% of the former onsite gas holder is located beneath the southwest corner of the current tank manufacturing building. The Sanborn Maps also indicate that a second gas holder (the former offsite gas holder) was constructed between 1884 and 1891 in the southeast corner of the current George Lumber Property. The layout of historical MGP structures is shown on Figures 2 and 3. Following decommissioning of the MGP Operation in the early 1900's, the site has been used for various industrial purposes, including manufacturing of furniture and stainless-steel tanks.

## 2.5 Current and Anticipated Site Usage

The Feldmeier property (including the area used for the former MGP operations) is currently occupied by an industrial manufacturing facility that fabricates stainless-steel tanks for the pharmaceutical, cosmetics, and food industries. As indicated in an April 19, 2019 letter from the City of Little Falls Code and Zoning Officer (included as Appendix B), the property zoning is Manufacturing 2, which is the same as Industrial. The portion of the property that contains the former MGP operation is occupied by a paved parking area and the western portion of the Feldmeier tank manufacturing building. A covered storage area (open sided pole barn) used for storage of tank manufacturing stock materials is situated in the southern portion of the parking lot area. The tank manufacturing building consists of a slab-on-grade, structural steel frame building with metal walls and roof. Although most of the Site is currently paved or covered by the tank manufacturing building, some grass and vegetated areas are present along the margins of the parking lot and in the area south of the building along the bank of the Mohawk River. Industrial manufacturing operations at the Site are anticipated to continue for the foreseeable future.

## 2.6 Summary of Previous Site Investigations and Evaluations

Feldmeier purchased the property from SPX Corporation in 2004. In support of the property transfer, several investigations were completed by Feldmeier at the property beginning in 1997. A Phase II Environmental Site Assessment (ESA) identified suspected MGP-related impacts in the vicinity of

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historical MGP operations at the Site. As a result of the suspected MGP-related impacts identified at the property, National Grid implemented a Site Characterization Investigation and a Remedial Investigation (RI) at the Site under a multi-site VCO with the NYSDEC. Previous investigations that have been conducted at the Site and at the Feldmeier property (including investigation activities within the limits of the historical MGP operation) include:

- Phase I ESA conducted by Delta Environmental Consultants, Inc. (Delta Environmental) in 1997.
- Phase I ESA conducted by Buck Engineering, LLC (Buck Engineering) in 1998.
- Phase II ESA conducted by Delta Environmental in 1998.
- Voluntary Cleanup Program (VCP) investigation and supplemental VCP investigations conducted by Buck in 2000, 2001, and 2002.
- Site Characterization Investigation conducted on behalf of National Grid by Foster Wheeler Environmental Corporation in 2002.
- Remedial Investigation conducted on behalf of National Grid by Arcadis between 2004 and 2006.

Pre-remediation results for soil and groundwater samples that were analyzed in connection with the above-listed investigation activities are summarized on Figures 4 through 6. A detailed discussion of the RI and other previous investigations is presented in the NYSDEC-approved RI Report (Arcadis, July 2005). In general, the results of the RI and other previous investigations, and evaluation regarding the need for further remedial actions, indicate the following:

- MGP-related impacts appeared to be localized to the vicinity of the former onsite gas holder and the area immediately south and west of the tank manufacturing building. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs) are commonly associated with historical MGP operations (as well as certain manufacturing operations) and these constituents have been used to indicate the presence and extent of MGP-related impacts. Pre-remediation total BTEX and PAH concentrations detected in subsurface soil samples collected during previous investigations are summarized on Figure 4. The highest concentrations of BTEX and PAHs were detected in soil and groundwater samples collected in the vicinity of the former onsite gas holder. Elevated BTEX and PAH concentrations were also identified in soil borings completed within and immediately west of the tank manufacturing building (including borings F-SB-21, F-SB-23, and F-SB-24). Visible MGP impacts were encountered in the vicinity of the former onsite gas holder and at specific locations within the former underground “MGP pipe gallery” located west of the tank manufacturing building. Visible MGP impacts were noted at depths of approximately 10 to 13 feet below ground surface (bgs) in test pits excavated within the MGP pipe gallery. However, BTEX and PAH concentrations in soil samples collected from the test pits in the former pipe gallery area indicated that remedial efforts were not necessary to achieve the remedial action objectives (RAOs) provided in Section 2.0 of this report. The results for the RI and previous investigations also indicated that MGP-related impacts did not appear to be a significant concern in areas located in the western portion of the Site (including in the vicinity of the former offsite gas holder). Detected pre-remediation concentrations of target compound list (TCL) volatile organic compounds (VOCs) and TCL semi-volatile organic compounds (SVOCs) in groundwater samples collected during the RI are summarized on Figures 5 and 6, respectively.
- With the exception of two locations (F-SB-22 and MW-101R) in the vicinity of the former onsite gas holder, bedrock beneath the Site appeared generally unaffected by MGP-related non-aqueous phase

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liquid (NAPL). Measurable thicknesses of dense non-aqueous phase liquid (DNAPL) were encountered in bedrock monitoring well MW-101R. However, DNAPL was not observed in bedrock at nearby monitoring wells MW-101RD, MW-102R, and MW-103R installed along the northern bank of the Mohawk River (with the exception of a slight sheen observed at 27 feet bgs in bedrock at MW-101RD).

- The analytical results generated during the RI indicated that several chlorinated volatile organic compounds (chlorinated VOCs), which are not related to historical MGP operations at the Site, were identified in groundwater samples collected from bedrock monitoring wells MW-101RD and MW-103R at concentrations exceeding NYSDEC groundwater standards. An August 2, 2005 letter from National Grid to the NYSDEC clarified that National Grid would not be responsible for addressing data gaps or conditions that are solely related to the presence of chlorinated VOCs identified at the Site or for future remediation of any areas that are not impacted by historical MGP operations.
- The majority of the Site is covered by an asphalt parking lot and a large building. There is a relatively narrow strip of vegetated soil located along the southern boundary of the Site, adjacent to the Mohawk River. The vegetated soil in this area of the Site receives overland stormwater runoff from the parking lot area at the Site. The low-level concentrations of PAHs detected in the surface soil samples indicated that remediation of surface soil was not warranted to achieve the RAOs.
- Although select inorganic constituents were detected in pre-remediation surface and subsurface soil samples at concentrations exceeding NYSDEC-recommended soil cleanup objectives and previously established Site background values, the RI Report concluded that the detected inorganic constituents did not appear to be linked to former MGP operations at the Site and remediation of inorganic constituents to address the RAOs was not warranted.
- The findings of the soil-gas investigation completed as part of the RI indicated that MGP-related impacts beneath the tank manufacturing building did not appear to represent a potential source for migration of volatilized MGP-related constituents to indoor air within the tank manufacturing building. The NYSDEC issued a June 1, 2006 letter (included as Appendix C) to National Grid indicating that no further action was required by National Grid related to the investigation and/or remediation of soil gas at the Site.
- Sediment probing completed within the Mohawk River adjacent to and downgradient from the Site as part of the RI indicated that sediment is only present in limited isolated deposits that consist of a thin layer of coarse material. While PAH compounds were detected in sediment samples at concentrations that exceed NYSDEC sediment screening levels, the RI Report concluded that the limited and random distribution of sediment deposits and lack of any visible impacts in sediment encountered in the Mohawk River adjacent to and immediately downstream of the Site did not warrant further remedial activities.

Pre-remediation soil and groundwater analytical results from the RI are presented in Table 1 and Table 2, respectively. Soil, groundwater, soil-gas, and sediment investigation results from the RI (including sampling locations, sampling results, soil boring logs, test pit logs, soil-gas logs, well installation details, groundwater and river elevation information, etc.) and analytical data from previous investigations were provided in the RI Report (Arcadis BBL, July 2005) and in a June 20, 2006 letter from National Grid to the NYSDEC. These documents and other pertinent documents are available for review at two public document repositories: The Little Falls Public Library in Little Falls, New York and at the NYSDEC Headquarters in Albany, New York.



### 3 SUMMARY OF SITE REMEDY

#### 3.1 Remedial Action Objectives

Where needed (i.e., for subsurface soil and groundwater), Remedial Action Objectives (RAOs) were developed based on the results of previous investigations and in consideration of current/future Site uses and potential exposure pathways. The primary goal of remedial activities is to mitigate potential risks to public health and the environment based on the current or contemplated use of the Site. The following media-specific RAOs were developed from the Division of Environmental Remediation's (DER's) Generic RAOs for subsurface soil and groundwater at the Site.

Environmental Media	Constituents of Concern	Media-Specific Remedial Action Objectives
Subsurface Soil	<ul style="list-style-type: none"> <li>BTEX</li> <li>PAHs</li> <li>NAPL</li> </ul>	<ol style="list-style-type: none"> <li>1. Prevent or minimize to the extent practicable ingestion/direct contact with impacted subsurface soil.</li> <li>2. Prevent or minimize to the extent practicable inhalation of or exposure to compounds volatilizing from impacted subsurface soil.</li> <li>3. Prevent or minimize to the extent practicable migration of impacts that would result in increased groundwater or surface water impacts.</li> </ol>
Groundwater	<ul style="list-style-type: none"> <li>BTEX</li> <li>PAHs</li> </ul>	<ol style="list-style-type: none"> <li>1. Prevent or minimize to the extent practicable ingestion of groundwater with concentrations of constituents of concern (COCs) exceeding drinking water standards.</li> <li>2. Prevent or minimize to the extent practicable contact with, or inhalation of volatiles, from impacted groundwater.</li> <li>3. Prevent or minimize to the extent practicable discharge of impacts to surface water.</li> <li>4. Minimize future impacts to groundwater and reduce concentrations of COCs in groundwater to the extent practicable.</li> </ol>
NAPL	<ul style="list-style-type: none"> <li>DNAPL</li> </ul>	<ol style="list-style-type: none"> <li>1. Recover non-aqueous phase liquid (NAPL) to the extent practicable.</li> </ol>

The results of previous investigations indicate no remedial measures are necessary for the surface soil at the Site and sediment in the Mohawk River. Therefore, no RAOs are proposed for those media.

### 3.2 Summary of Site Remedy

Based on the RAOs presented above, the results of previous investigations, and the current and anticipated future use(s) of the Site, the NYSDEC-approved remedy that was implemented for the Site in accordance with the Remedial Action Work Plan and the NYSDEC Decision Document included:

1. Impacted subsurface soils (defined in TAGM 4046 as > 10ppm total BTEX and > 500ppm total PAH) located between the Feldmeier Building and the Mohawk river will be treated by in-situ soil stabilization (ISS). Portland cement and additional additives or reagent materials may be used during the in-situ mixing activities, as determined by a bench scale test performed during the remedial design phase. Jet grouting, or other appropriate methods, will also be used to treat soil located immediately adjacent to subsurface structures and underground utilities. The approximate ISS treatment area will encompass approximately 600 cubic yards of soil at depths ranging from approximately 13 to 26.5 feet, including accessible areas inside the former gas holder structure (see Figure 1). ISS treatment will be performed in a manner that avoids potential damage to the integrity of the existing building, and other critical infrastructure, such as the sanitary sewer that crosses the treatment area. The solidified area will be covered by a minimum 12-inch layer of clean soil capable of supporting vegetation. The soil cover will be underlain by an indicator such as orange plastic snow fence to demarcate the cover soil from the solidified area.
2. The former MGP pipe gallery will be excavated, along with grossly contaminated soil, if any, in close proximity to these pipes. Excavated soil will be transported off-site and treated or disposed in accordance with applicable regulations.
3. Passive recovery wells will be installed upgradient and downgradient of the ISS treatment area to recover DNAPL downgradient of the former onsite gas holder. The recovery wells will be constructed in the area south of the former onsite gas holder where DNAPL was previously observed near the bedrock interface and in upper bedrock fractures during (i.e., near monitoring well MW-101R). The recovery well locations may be adjusted in the field, as necessary, based on site conditions encountered during the remediation activities. DNAPL will be periodically measured in and removed from these wells until recovery is no longer feasible.
4. An environmental easement will be implemented that will (a) limit the use and development of site property to commercial and industrial use; (b) require compliance with an approved site management plan; (c) restrict the use of groundwater as a source of drinking water or industrial supply without necessary water quality treatment as determined by the New York State Health Department; (d) require National Grid to prepare and submit to the NYSDEC a periodic certification of institutional and engineering controls
5. A site management plan will be developed which will include the following institutional and engineering controls: (a) management of the final cover system to restrict excavation below the soil cover, pavement, or buildings. Excavated soil will be tested, properly handled to protect the health and safety of workers and the nearby community, and will be properly managed in a manner acceptable to the Department; (b) continued evaluation of the potential for vapor intrusion for any buildings developed on the site, including provisions for mitigation of any impacts identified; (c) NAPL recovery and groundwater monitoring; (d) identification off any use restrictions on the site; and (e) provisions for the continued proper operation and maintenance of the components of the remedy.

## 4 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

National Grid contracted with Royal Environmental, Inc. (the Contractor) of Syracuse, New York to perform the remedial activities involving soil and piping removal and ISS. Arcadis served as the Remediation Engineer during the project and provided on-site observation involving the following services during implementation of the remedial activities:

- Providing full-time, on-site observation to confirm that the remedial activities were conducted in general accordance with the RAWP.
- Documenting daily field activities; quantities of materials removed, generated, used, and transported off-site; and manpower/equipment utilized to complete the remedial activities.
- Reviewing non-hazardous waste manifests/bills of lading documents for solid waste materials generated by the remedial activities prior to signature by a representative of National Grid and maintaining an on-site project log containing waste documentation.
- Observing the soil removal activities to visually characterize soil at the excavation limits and determine if additional soil removal activities were required to achieve the objectives.
- Observing ISS activities (soil mixing and jet grouting) to confirm the required treatment limits and depths were achieved.
- Collecting waste characterization samples for laboratory analysis to profile solid and liquid wastes for off-site treatment and disposal.
- Collecting samples of backfill material for laboratory analysis for Pesticides/PCBs, TCL VOCs, TCL SVOCs, and TAL inorganic constituents (including cyanide).

Copies of daily field reports prepared by Arcadis are included in Appendix D.

### 4.1 Governing Documents

Documents governing the remedial actions completed at the Site include the Remedial Action Work Plan (RAWP), as well as documents prepared by the Contractor, as described in the following sections.

#### 4.1.1 Remedial Action Work Plan

The purpose of the RAWP was to present the remedial approach for implementing the Site remedy. The primary components of the RAWP consisted of the following:

- Text – provided a narrative of the remedial actions to be completed.
- Design - depicted the remedial actions to be completed and targeted excavation/ISS treatment areas.
- Technical Specifications – presented material and performance criteria for completing the remedial activities.

The remedial activities presented in the RAWP were incorporated into the NYSDEC Decision Document for the Site. The RAWP was supported by the documents described below which were reviewed and approved by the NYSDEC.

#### 4.1.1.1 Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) presented the storm water management practices implemented to control potential impacts to site-related storm water run-off during remedial construction. The SWPPP was prepared in general accordance with the requirements and standards outline in the following documents:

- *Instruction Manual for Stormwater Construction Permit* (New York State Department of Environmental Conservation [NYSDEC], 2004);
- *New York Standards and Specifications for Erosion and Sediment Control* (NYSDEC, 2005) (“NYSDEC Standards and Specifications”); and
- *New York State Stormwater Management Design Manual* (NYSDEC, 2003).

#### 4.1.1.2 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) described levels, monitoring equipment and procedures, monitoring schedule, and data collection and reporting requirements for air monitoring during the remedial construction activities. Community air monitoring and noise monitoring activities are presented in Section 4.2.6 of this FER.

### 4.1.2 Contractor Documents

In addition to the RAWP, activities by the Contractor were completed in accordance with the specific contractual requirements described in the following subsections. The Remediation Engineer (Arcadis) reviewed all plans and submittals for the project (i.e., those described below and contractor/subcontractor submittals) to evaluate compliance with the RAWP. The contractor documents (identified below) were also submitted to NYSDEC for review prior to the start of work. The NYSDEC provided comments on the Contractor submittals which were addressed in a June 9, 2009 response letter from National Grid to the NYSDEC.

#### 4.1.2.1 Contractor Operations Plan

The Contractor prepared a Contractor Operations Plan that described the scope of the remedial construction activities and the Contractor’s proposed means and methods for completing the remedial action.

#### 4.1.2.2 Site Health and Safety Plan

Contractor personnel and subcontractors completed work in accordance with the Contractor’s HASP, which described the health and safety procedures, methods, and requirements for completing working activities during the remedial activities. The Contractor’s HASP covered all remedial and invasive work performed at the Site.

#### 4.1.2.3 Waste Handling Plan

The Contractor prepared a Waste Handling Plan that presented handling and disposal requirements for waste materials generated during the remedial activities.

#### 4.1.2.4 Contingency Plan

The Contractor prepared a Contingency Plan that described the provisions required for responding to Site-related emergencies that could occur during the remedial activities. The Contingency Plan included the following components:

- A Spill Response Plan for addressing spills that may occur on-site or within the adjacent Mohawk River as a result of the Contractor's activities or the remedial activities. The Spill Response Plan described the methods, means, and facilities required to prevent soil, water, structure, equipment, and material impacts caused by spills; provided information regarding spill containment and clean-up; and provided information related to decontamination measures.
- Procedures and routes for emergency vehicular access/egress.
- Procedures for evacuation of personnel from the Site.
- List of contractor personnel with phone numbers that included the NYSDEC Spill Response Hotline; fire officials; ambulance service; local, county, and state police; local hospitals; and a spill response team.
- Routes to local hospitals, including written directions and a map. The Contingency Plan also included protocols/procedures for notifying appropriate hospital personnel of the nature and extent of possible chemical exposure.

In addition, the Contractor was responsible for implementing non-spill response, non-emergency removal-related contingency measures.

## 4.2 Remedial Program Elements

### 4.2.1 Site Review

Prior to or as part of mobilization, the following items were completed:

- Existing Site conditions were reviewed to understand the conditions that may be encountered during implementation of the remedial activities. This included identifying the location of, and staking out, all aboveground and active underground utilities, equipment, and structures in the construction area.
- Survey control and limits of work were established.
- Appropriate utility-locating agencies were contacted (e.g., Dig Safe New York) prior to the start of intrusive activities. A 36-inch sanitary sewer that extended through the proposed ISS area was partially uncovered to confirm the sewer line locations.

### 4.2.2 Monitoring Well Decommissioning

Prior to remedial construction activities, monitoring wells FWMW-4, FWMW-6, and MW-101R (located within the anticipated ISS area) were decommissioned. The former locations of these monitoring wells are identified on Figure 6 and 7.

The monitoring well decommissioning activities were conducted between May 14 and May 18, 2009 by Arcadis' subcontractor Parratt-Wolff, Inc., located in Syracuse, New York (Parratt-Wolff). The monitoring wells were decommissioned in accordance with American Society for Testing and Materials (ASTM) Method D5299 (Standard Guide for Decommissioning of Groundwater Wells, Vadose Zone Monitoring Devices, Boreholes, and Other Devices for Environmental Activities) and in accordance with Section 2 of

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the NYSDEC guidance document entitled Groundwater Monitoring Well Decommissioning Procedures (NYSDEC, July 2006).

The decommissioning activities for monitoring wells FWMW-4 and FWMW-6 (installed in the overburden soils) included removing all well construction materials (i.e., casing, grout, and sand pack) by overdrilling each monitoring well. Following the removal of the well construction materials, the boreholes were tremie grouted with a cement/grout mixture to ground surface.

The decommissioning activities for monitoring well MW-101R (installed into bedrock) included the perforation of the 2-inch polyvinyl chloride (PVC) casing to a depth of approximately 33 feet below ground surface (bgs). Following perforation of the PVC, all remaining well construction materials (i.e., steel casing, grout and sand pack) was removed by overdrilling the monitoring well. Following the removal of the well construction materials, the borehole was tremie grouted with a cement/grout mixture to ground surface.

Overdrilling was continued approximately 0.5 feet past the bottom of the wells. Following removal of the well construction materials, a cement/bentonite grout was added to the borehole by way of a tremie pipe. The cement/bentonite grout was a standard mixture, in proportions of one 94-pound bag of Type I Portland cement, approximately 4 pounds powdered bentonite, and approximately 8 gallons of potable water, per batch. The grout was pumped from the bottom of the borehole upward to within approximately 0.5 feet below the surrounding ground surface while the hollow-stem augers were slowly lifted and removed from the hole.

All down-hole drilling equipment used during the monitoring well abandonment activities was decontaminated before and after the activities. Wash water generated by the equipment decontamination was containerized in Department of Transportation- (DOT-) approved steel 55-gallon drums. The removed monitoring well materials and soil cuttings generated as a result of decommissioning activities were also placed into DOT-approved steel 55-gallon drums. All waste was staged onsite in a secure location identified by the property owner prior to offsite transportation and disposal by National Grid in accordance with applicable regulations.

### 4.2.3 Mobilization

Following the establishment of the limits of work, mobilization was initiated on June 1, 2009. As part of mobilization, the following items were completed:

- Mobilizing manpower, equipment, and supplies to the Site. Equipment mobilized to the Site was visual reviewed by National Grid's on-site representative to ensure overall condition.
- Establishing a Contractor vehicle and equipment staging area, and job trailer.
- Establishing potable water supply and portable sanitary services for project personnel.
- Mobilizing air monitoring equipment and emission/odor control supplies, as required prior to intrusive activities, to mitigate potential off-site impacts.
- Installing appropriate fencing and other Site controls (with appropriate warning signs) to limit unauthorized access or unknowing access to those areas associated with the remedial activities, and to provide for safe work conditions.
- Installing temporary erosion and sedimentation controls in accordance with the Draft New York Standards and Specifications for Erosion and Sediment Control (Natural Resources Conservation Service [NRCS], 2003) and the Storm Water Pollution Prevention Plan (prepared by the Contractor)

to temporarily control or divert surface water flow and mitigate the potential for erosion and migration of MGP-related constituents/materials.

- Constructing equipment and material decontamination area(s). As part of the Site preparation activities, the Contractor constructed a decontamination area for trucks, equipment, and personnel that contact with impacted materials during remedial activities.
- Establishing and constructing work areas and staging areas necessary for the remedial activities. The minimum requirements for the temporary soil staging areas were identified in the Waste Management Plan. The temporary staging areas were constructed to contain surface water runoff.
- Providing temporary storage of wastewater generated during implementation of the remedial activities
- Implementing Site controls and safety functions that included: a sign-in/sign-out sheet; installing and maintaining temporary construction barriers (i.e., fencing, warning tape) around all open excavations and stockpile areas; parking heavy equipment within designated areas and removing keys wash day following completion of the work activities; and maintaining an organized work area.

### 4.2.4 In-Situ Soil Stabilization

In-situ soil mixing using an excavator-mounted auger was the primary method of ISS treatment implemented at the Site. In accordance with the RAWP, soil located adjacent to and beneath the 24-inch concrete sanitary sewer line was treated by jet grouting. In addition, soil in specific areas that was originally targeted for in-situ mixing was treated by jet grouting due to auger refusal on subsurface foundations and/or bedrock. Soil located within the target ISS treatment area identified on Figure 7 was treated by in-situ auger mixing or jet grouting in accordance with the technical specifications and results of the bench scale tests performed prior to the ISS treatment. The ISS treatment areas (shown on Figure 7) encompass approximately 600 cubic yards of soil at depths ranging from approximately 13 to 26.5 feet, including accessible areas inside the former gas holder structure. The depth of soil targeted for treatment was identified based on: 1) the depth of bedrock (in the vicinity of monitoring well MW-101R), 2) the depth of observed soil impacts (in the vicinity of soil borings F-SB-25 and F-SB-22), and 3) the depth of the base of the former gas holder structure (in the vicinity of soil boring F-SB-26). To avoid potential damage to the integrity of the existing building, ISS soil treatment was not be performed within approximately 5 feet from the existing edge of the building or within approximately 2 feet of existing building's subsurface foundation.

The ISS treatment resulted in subsurface materials with the following characteristics:

- Reduced leaching/mobility of NAPL and chemical constituents.
- Minimal free liquids in soil pore spaces.
- Reduced hydraulic conductivity.

The ISS activities were conducted in accordance with the Technical Specifications Section 02201 – Earthwork, Section 02202 – Rock and Debris Removal, Section 02420 – In-Situ Stabilization/Solidification, and Section 03002 – Jet Grouting.

Additional details regarding the ISS components and implementation activities are provided in the following subsections.



#### 4.2.4.1 Bench-Scale Treatability Study

To support the preparation of the Technical Specifications for the project, a bench-scale study was conducted by Geo-Solutions, Inc. (ISS subcontractor). The bench-scale study was conducted to determine an appropriate mix design (cement, additives and/or reagents) to reduce hydraulic conductivity and leachability, and to demonstrate chemical compatibility with contaminants of concern (COCs).

Representative soil samples required for the bench-scale testing were collected from four soil borings completed within the targeted treatment area. The borings were advanced to the proposed treatment depth indicated on Figure 7. Composite samples were collected through the entire treatment depth along with the additional soil from the drill cuttings to obtain enough sample material from each soil boring location for the treatability testing. In addition, one soil boring (SB-111) was completed as part of the ISS Treatability Study to evaluate whether NAPL-impacted soil was present immediately east of the Line of Demarcation. No visible MGP-related residuals or obvious impacts were identified to the east of the line of demarcation. Samples of the onsite water source to be used during construction were also collected for use in the bench-scale testing.

The composite soil samples from soil borings and a representative sample of the municipal water source available at the Site were submitted to Geo-Solutions for bench-scale testing of the mix designs. The ISS and jet grouting mix designs were evaluated based on the following criteria:

- Reduction in the existing hydraulic conductivity of the soil matrix resulting from treatment. The reduction in the hydraulic conductivity of the treated soil matrix generally corresponds to a reduction in the potential leachability of COCs within the soil matrix. In-situ hydraulic conductivity measurements obtained from overburden groundwater monitoring wells at the Site during the RI ranged from  $1.14 \times 10^{-4}$  centimeters per second (cm/sec) to  $5.56 \times 10^{-4}$  cm/sec. The target hydraulic conductivity for the treated soil matrix following addition of mixing reagents was approximately  $1 \times 10^{-6}$  cm/sec or less.
- Physical properties of the treated soil. To ensure suitable physical properties considering potential future Site activities and surface/subsurface loads without settling or deterioration, the target 28-day unconfined compressive strength (UCS) of the treated soil matrix was approximately 50 pounds per square inch (psi).

Based on the results of the bench scale testing two final mix designs (based upon total soil weight) were developed for the Site, one mix for jet grouting and one mix for ISS treatment:

- Jet Grout mix of 4.29% blast furnace slag (BRS)/10% cement/0.5% bentonite for use below the existing sanitary sewer pipeline.
- ISS mix of 10% cement/0.5% bentonite for use in all ISS Areas.

The In-Situ Soil Stabilization Treatability Study Report (Arcadis, July 2008) is included in Appendix E.

#### 4.2.4.2 In-Situ Soil Mixing

As indicated above, the intent of ISS treatment is to favorably influence several characteristics of the soil matrix (and COCs contained within the soil), such as strength, COC leachability, and hydraulic conductivity. To create continuous zones of treatment (to the extent feasible), vertical columns of mixed soil and cement were overlapped to as shown on Figure 8. ISS was initiated on June 9, 2009 at location



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S-17. In-situ soil mixing was performed using an excavator-mounted, 5-foot diameter auger with mixing paddles and grout ports. The auger was advanced into the ground to predetermined depths or to refusal, while the grout mix was pumped through the shaft and distributed to the soil matrix.

ISS soil mixing was performed utilizing a 10% cement/0.5% bentonite (percentage based on total soil weight) reagent mix in all ISS soil mixing areas. ISS column sequencing, size, and overlap was determined by Geo-Solutions, Inc. The layout of the ISS columns was limited by the following:

- To avoid potential damage to the integrity of the existing building, ISS soil mixing was not performed within approximately 5 feet from the existing edge of the building or within approximately 2 feet of existing subsurface building foundation.
- ISS soil mixing was not performed within approximately 3 feet from the existing sanitary sewer line that passes through the Site to avoid damage to the sewer line
- The layout of ISS columns within former gas holder was limited by accessibility due to the constraints associated with the existing building foundation and the subsurface gas holder wall.

Prior to ISS soil mixing, pre-excavation was performed in the targeted ISS treatment area to provide containment of ISS spoil materials and locate shallow surface obstructions (such as the holder walls) which could affect ISS implementation. Approximately 18 inches of surface soil was removed across the ISS treatment area. Excess spoil material was removed and placed in the staging area for offsite disposal.

Prior to initiating ISS activities, a portion of the shallow stormwater drainage piping and catch basin located adjacent to the tank manufacturing building was removed to facilitate completion of the ISS activities. The Contractor monitored for precipitation during the ISS activities and was equipped with the necessary stormwater diversion equipment. Following completion of the ISS activities, the stormwater piping was temporarily replaced during work on the remaining remedial activities. Once the remedial activities were completed, the storm water piping and catch basin were restored to pre-remedial conditions.

To verify that the grout was mixed with soil until a homogenous mixture was achieved from the top of the soil column to the bottom of the soil column the following information was documented for each treatment location:

- Column ID
- Column coordinates
- Surface elevation at top of column
- Total installed depth of column (elevation)
- Start time and finish time
- Quantity of grout installed
- Number of soil mixing passes
- Injection rate
- Injection pressure
- Rotation rate
- Diagram of column depicting location and overlap configuration

ISS treatment verification documentation is included in Appendix F.

Four quality assurance/quality control (QA/QC) samples were collected from the soil mix columns and submitted to Parratt-Wolff Laboratories, Inc (Parratt-Wolff Laboratories). The samples, collected at locations S-9, S-17, S-29 and S-34, were analyzed for Unconfined Compressive Strength (UCS) by ASTM D1633. Additionally, the sample from location S-29 was analyzed for Hydraulic Conductivity by ASTM D5084. Results of the laboratory analyses indicated that the soil/cement mixtures were within the limits contained in Section 02420 – In-Situ Soil Stabilization/Solidification of the Technical Specifications. The UCS of the four samples exceeded the required minimum of 50 pounds per square inch (psi) and ranged from 290 to 445 psi. The average hydraulic conductivity was  $1.6 \times 10^{-7}$  cm/sec, which was less than the allowable maximum of  $1 \times 10^{-6}$  cm/sec. The laboratory test results for the soil/cement mixture samples are included in Appendix G.

In-situ mixing was performed as detailed in the RAWP with the following exceptions (as concurred to by onsite NYSDEC and Arcadis personnel) where treatment objectives were not fully achieved:

- Concrete obstructions were encountered at column locations S-22, S-27, S-28, and S-33, which prevented treatment to the target mixing depth.
- Refusal was encountered prior to reaching the target treatment depth at ISS column locations S-3, S-4, S-7, S-11, S-18, S-19, S-20, S-21, S-24, S-25, S-26, S-31, and S-32 due to unknown subsurface obstructions.

#### 4.2.4.3 Jet Grouting

As indicated on Figure 8, Jet grouting was performed beneath the existing sanitary sewer line passing through the ISS treatment area and in specific areas where ISS treatment met refusal prior to reaching target depths. Jet grouting utilized a 10% cement, 4.29% blast furnace slag cement, 0.5% bentonite (percentage based on total soil weight) reagent mix.

Prior to jet grouting, the Town of Little Falls marked the location of the sanitary sewer and the Contractor field-identified the location by excavating down to the crown of the pipeline using a mini-excavator and hand tools. Jet grouting was then performed in the area below the existing pipeline to the same treatment depth as the adjacent ISS soil mixing areas (i.e., bedrock). Jet grouting was sequenced below the existing pipeline in a manner to prevent heaving or movement of the pipeline due to expansion of the grout mixture. The Contractor continuously monitored the piping for movement using a laser level. Based on the depth of observed impacts in soil boring in SB-109 and SB-110 (impacts were only observed at depths greater than approximately 13 feet), treatment was not performed any shallower than be 13 feet below ground surface (bgs) in the area directly beneath the pipe to limit risk of settlement.

On June 17, 2009, the NYSDEC, National Grid, Arcadis, and the Contractor held a post-ISS and jet grout meeting on Site. After providing a summary of the completed treatment areas, all parties discussed the success of treatment efforts in the area south of the sanitary sewer where the presence of significant subsurface obstructions resulted in refusal of ISS and jet grouting equipment. During the meeting, the NYSDEC recognized that National Grid had exercised considerable effort to treat the limited amount of NAPL-impacted soil identified at the Site. However, the agency requested that National Grid perform additional attempts to treat the soil at specific locations where MGP-residuals were identified by the RI, including ISS column locations S-19, S-24 and S-25 (approximate location of soil boring SB-110) and at column locations S-31 and S-32 (approximate location of former monitoring well MW-101R). In response, additional jet grouting was performed in an attempt to treat soil to the targeted treatment depths at these

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two locations. Multiple attempts to achieve the target treatment depth at the approximate soil boring SB-110 location were unsuccessful. After two attempts to treat soil at the approximate former monitoring well MW-101R location, the Contractor was successful in drilling to bedrock and jet grouting to the surface. NYSDEC and National Grid concurred that the ISS and jet grouting remedial activities were completed.

To verify that the grout was mixed with soil until a homogenous mixture was achieved from the top of the soil column to the bottom of the soil column the following information was documented for each treatment location:

- Injection point ID
- Injection point coordinates
- Injection point angle
- Surface elevation at top of injection point
- Total installed depth of injection point
- Start time and finish time
- Quantity of grout installed
- Number of soil mixing passes
- Injection rate
- Injection pressure
- Diagram of grout injection points depicting location and overlap configuration

Jet grout verification documentation is included in Appendix F.

Two QA/QC samples (one from jet grout injection point J-19 and one from the batch plant) were collected and submitted to Parratt-Wolff Laboratories. The sample collected at locations J-19 was analyzed for UCS by ASTM D1633. The sample from the batch plant [Batch 24 (JG)] was analyzed for UCS by ASTM C780. Results of the laboratory analyses indicated that the samples were within the limits contained in Technical Specification Section 03002 – Jet Grouting. The UCS of the two samples exceeded the required minimum of 50 pounds psi and ranged from 345 to 450 psi. The laboratory test results of the jet grout samples are included in Appendix G.

### 4.2.5 Pipe Gallery Removal

Following completion of ISS and jet grouting activities, subsurface piping associated with a former “MGP pipe gallery” and potentially impacted soil in the immediate vicinity of the piping were removed. The removal effort focused on two 4-inch diameter pipes that were identified at the west end of test pit F-TP-1 (shown on Figure 4) at a depth of approximately 6 feet below grade.

As outlined in the RDWP, the extent of excavation in the pipe gallery area was limited by physical restrictions associated with (and intended to minimize disruptions/impacts to) existing facilities, structures, property conditions, and ongoing operations. While the extent of piping and soil removal was based on visual observations, the following considerations dictated the extent of the removal activities:

- Removal activities were not to proceed below the groundwater table.
- Removal activities avoided disturbances within a 10-foot corridor offset from the west edge of the existing tank manufacturing building to minimize activities in close proximity to the building foundation, and to provide a means of access/egress to the existing building entrance located east of the pipe gallery removal area.

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On June 23, 2009 a test pit was excavated to 6 feet below grade to collect in-situ soil waste characterization sample WC (SOIL)-1. Excavation activities to locate and remove the piping and surrounding impacted soils were initiated on July 8, 2009 at the approximate location of test pit F-TP-1. Approximately 12 feet of piping and other steel conduits were excavated and removed at 6 feet below grade. Excavating continued horizontally for 10 feet beyond completion of the piping removal, resulting in an excavation approximately 49 feet long, 8 feet deep, and 5 to 12 feet wide. With NYSDEC concurrence, excavation efforts were determined to be complete once no additional piping or impacted soils were observed. All photoionization detector readings recorded during pipe gallery excavation were 0.0 parts per million. The extent of piping and visually impacted soil removal was determined during excavation activities based on visual observations and in consultation with the NYSDEC. All excavated materials (i.e., pipes, impacted soils) were direct loaded for off-site disposal. Based on a post-excavation survey following completion of the excavation activities, the total volume of excavated soil was approximately 120 cubic yards. Figure 7 shows the horizontal extent of soil and pipe removal in the former MGP pipe gallery area.

The pipe gallery excavation was backfilled with run of bank gravel on July 9 and 10, 2009. The gravel was placed in 12-inch lifts and compacted with a vibratory roller. Asphalt pavement was installed to existing surrounding grade as part of the final restoration activities.

All work was performed in accordance with Technical Specifications Section 02201 – Earthwork, Section 02202 – Rock and Debris Removal, Section 02206 – Select Fill, and Section 02399 - Existing Pipeline Abandonment.

### **4.2.6 Noise, Duct, Vapor Emissions and Odor Control**

Measures were taken during implementation of the remedial activities to keep noise levels (produced by construction equipment) to safe and tolerable limits. All construction equipment posing a potential noise nuisance were outfitted by the Contractor with noise-muffling devices.

During intrusive remedial activities and material handling activities, real-time air monitoring activities were implemented in accordance with requirements set forth in the New York State Department of Health's (NYSDOH's) Generic Community Air Monitoring Plan, the site-specific HASP, and the site-specific CAMP. Air monitoring station locations are indicated on Figure 7. Air monitoring activities were implemented for volatile organic compounds (VOCs) and particulate matter less than 10 microns in diameter (PM10). Dust monitoring was conducted using real-time aerosol monitors (MIE pDR-1000). Air monitoring equipment was calibrated daily, prior to the start of work activities. Monitoring was performed continuously during intrusive remedial activities and material handling activities at locations upwind and downwind along the work area with instrumentation that is equipped with electronic data-logging capabilities. The results of airborne particulate monitoring were recorded by the Contractor at a minimum frequency of once per hour, unless conditions and work activities did not support the generation of dust (e.g., during saturated soil and /or surface conditions and precipitation events). The established action levels (100 µg/m3 above background with a maximum of 150 µg/m3) were not exceeded at any time during the remedial activities, and there were no dust-related work stoppages. On June 10, 2009, the monitoring instrument at the upwind monitoring location (Air Monitoring Station 3) ingested plant material into the air monitoring port which resulted in out-of-range data for that date (from approximately 10:08 until 16:38 hours). On-site

work was not stopped because the downwind air monitoring results remained within acceptable range. Particulate dust air monitoring logs are attached as K H.

In accordance with the Contractor SOW, the Contractor was prepared to implement dust control measures, as necessary, including techniques presented in the NYSDEC TAGM 4031 entitled "Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites," dated October 27, 1989. However, based on the results of air monitoring and visual observations, work activities at the Site did not generate dust and dust control measures were not necessary.

### **4.2.7 Characterization, Transportation and Disposal of Waste Materials**

Soil, water, debris, and miscellaneous wastes generated during the remedial activities were containerized, handled, and transported for off-site treatment or disposal in accordance with the Technical Specifications, the Waste Management Plan, and all applicable federal, state, and local regulations. Solid waste characterization samples were collected and submitted for laboratory analysis for polychlorinated biphenyls (PCBs), Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP inorganic constituents, ignitability, corrosivity, and reactivity. A wastewater characterization sample was collected and submitted for laboratory analysis for target compound list (TCL) VOCs, TCL SVOCs, total metals, pH and flash point.

#### **4.2.7.1 Soil Waste Disposal**

Solid waste materials generated by the remedial activities (including soil, staging area materials, personnel protective equipment, and general refuse) were disposed of as a non-hazardous waste at Oneida-Herkimer Solid Waste Authority (OHSWA) located in Utica, New York. A total of 277 tons of solid waste materials generated by the remedial activities was disposed at OHSWA. Solid waste characterization sample results are presented in Table 3. The soil waste characterization analytical results are attached as Appendix I. The non-hazardous waste manifest log, non-hazardous waste manifests, and weight tickets are attached as Appendix J.

#### **4.2.7.2 Wastewater Disposal**

Approximately 2,338 gallons of wastewater was generated during remedial activities at the Site. The laboratory analytical results indicated that the wastewater was non-hazardous. Industrial Oil Tank Services Corporation transported the wastewater for offsite treatment at the Industrial Oil Tank Services Corporation facility located in Oriskany, New York. Wastewater sample results are presented in Table 4. The wastewater characterization analytical results are attached as Appendix K.

### **4.2.8 Equipment Decontamination**

All non-disposable equipment used during implementation of the remedial activities was decontaminated as appropriate, between each excavation area, prior to handling backfill material, and prior to demobilization. Equipment that contacted MGP-impacted material was decontaminated in the designated onsite area. All material used in equipment washing including, but not limited to, detergent solution, rinsate, rinse water, towels, disposable equipment, and polyethylene sheeting, was collected and managed as described in the Waste Management Plan.

#### **4.2.9 Passive Recovery Well Installation**

Three passive recovery wells (RW-1, RW-2 and RW-3) were installed between August 18 and August 25, 2009 downgradient of the former onsite gas holder. The locations of the recovery wells are shown on Figures 7 and 8. One recovery well (RW-1) was installed to a depth of 24.5 feet below grade hydraulically upgradient of the ISS treatment. Recovery wells RW-2 and RW-3, installed to depths of 20.5 feet and 34.5 feet below grade, respectively, are located in the area south of the former onsite gas holder where DNAPL was observed near the bedrock interface and in upper bedrock fractures during previous investigation activities at the Site (i.e., in the vicinity of former monitoring well MW-101R). DNAPL recovery activities were proposed in these areas based on the depths where DNAPL was encountered and the location of observed impacts (i.e., between the tank manufacturing building and the northern bank of the river, and adjacent to a 36-inch sanitary sewer line).

The passive recovery wells were constructed using 4-inch diameter steel casings with slotted well screens installed through impacted overburden soil into upper portions of fractured bedrock. Each recovery well was constructed with a collection sump installed into competent bedrock. Detailed design and construction information for the passive recovery wells are shown on the well construction logs presented in Appendix L.

Periodic monitoring of the wells has been conducted to evaluate the presence/absence of DNAPL and to recover accumulated DNAPL, to the extent practicable. Specific details regarding the periodic monitoring/recovery activities are discussed in Section 4.5.

#### **4.2.10 Site Restoration**

At the conclusion of the remedial construction activities (including completion of ISS treatment and removal of all visible MGP-impacted soil in the pipe gallery excavation area), the pipe gallery excavation area and the ISS treatment area were restored in accordance with the design drawings and technical specifications. No post-excavation verification samples were collected for the pipe gallery excavation area or the ISS treatment area based on the remedial objectives. Site restoration was performed in accordance with Technical Specification Section 02208 – Restoration of Surfaces, and Section 02711 – Galvanized Chain Link Fence.

The NYSDEC decision document indicated that the ISS treatment area should be restored with a minimum 12-inch layer of clean soil capable of supporting vegetation. However, at the request of the site owner, National Grid installed asphalt pavement across the ISS treatment area following placement of run-off-bank gravel to restore the area to pre-existing site grades and drainage.

Backfilling activities were initiated on July 9, 2009. The pipe gallery excavation and ISS treatment areas were backfilled to previous lines and grades with approved run-of-bank gravel and run-of-crusher stone. Quantities of fill materials used for restoration activities include:



Backfill Material	Tons	Truckloads	Backfill Source
Run-of-Crusher Stone	22.61	1	Hanson Aggregates of New York, Inc. of Jordanville, NY
Run-of-Bank Gravel	178.0	10	John Talarico Contracting Corp., of Herkimer, NY

The excavation areas were backfilled in 12-inch lifts and compacted with a vibratory roller. Once the excavations had been backfilled to the completed subgrade, approximately 3 to 5 inches of sub-base and finish coat asphalt was installed to achieve final grades.

Samples of the backfill materials were submitted to TestAmerica for laboratory analysis for PCBs, pesticides, TCL VOCs, TCL SVOCs, and Target Analyte List (TAL) metals. Results of the laboratory analysis indicated that the materials did not contain PCBs, pesticides, VOCs, SVOCs, or TAL metals at concentrations exceeding the NYSDEC-recommended commercial soil clean-up objectives presented in 6 New York Codes, Rules and Regulations (NYCRR) Part 375 (Environmental Remediation Programs). The chemical analysis results of the backfill samples are presented in Table 5 and included in Appendix M.

Sample analysis of the backfill materials for ASTM D422 – Standard Test Method for Particle-Size Analysis of Soils was performed by Atlantic Testing. Results of the laboratory analyses indicated that the materials were within the limits contained in Technical Specification Section 02206 – Selected Fill. The physical property test results of the backfill samples are included in Appendix G.

#### 4.2.11 Demobilization

Following completion of the restoration activities, the Contractor demobilized from the Site. Demobilization activities included:

- Dismantling the work area(s), staging area(s), and equipment and material decontamination area(s). Temporary staging area materials were removed and staged for off-site transport and disposal in accordance with the Waste Management Plan.
- Cleaning/decontaminating equipment and construction-related materials prior to removal from the Site. The decontamination pad materials were staged for off-site transport and disposal in accordance with the Waste Management Plan.
- Removing all materials, equipment, and support structures from the site.

#### 4.2.12 Survey

A post-remediation Site survey was completed by Thew Associates PLLC, a New York State licensed surveyor to document the remedial construction work completed as part of the remedial activities. In addition, the location, ground elevation, and top-of-casing elevation for each recovery well installed as part of the remedial activities were surveyed. Information developed by the post-remediation site survey is presented on Figures 7 and 8.

### 4.3 Engineering and Institutional Controls

Engineering controls implemented as part of the remedy include placement of the asphalt cover across the ISS-treatment area and pipe gallery excavation area. Institutional controls in the form of a deed notice and groundwater use restrictions for the former MGP operations area (located west of the line of demarcations) have been implemented to limit future Site activities and inform future property owners of the residual soil and groundwater impacts at the Site.

The Deed Notice for the Site was executed by NYSDEC on March 19, 2018 and recorded in the Herkimer County Registry of Deeds on August 28, 2018 in Book 934, Page 92. A copy of the Deed Notice and proof of filing are provided in Appendix A of this FER. The Deed notice required compliance with the SMP and all institutional and engineering controls placed on the Site.

### 4.4 Site Management Plan

The SMP (Arcadis, March 2011) presents guidelines for managing future disturbance within the area containing residually impacted soils. The purpose of this SMP is to:

- Identify the locations where constituents of interest have been identified and remain in soil at the Site at concentrations above relevant standards, criteria, or guidance values.
- Establish requirements for the management of the existing asphalt cover system and soil material within the SMP Areas that may be disturbed during future activities.
- Establish barrier layer inspection, maintenance, repair, and notice requirements.

The SMP, approved by the NYSDEC, is one element of the final corrective measures for the Site, which also includes continued NAPL and groundwater monitoring and the executed deed notice. Revisions to the SMP may be proposed based on future changes to Site conditions or regulatory changes. Any revisions will be subject to NYSDEC and NYSDOH approval. Notice of the SMP is provided in the Deed Notice to make clear that the obligations under this SMP will pass from owner to each subsequent owner upon any transfer of title.

### 4.5 Monitoring of Post-Remedial Action Conditions

Groundwater quality at the Site is expected to improve as a result of the remedial activities described above. As such, groundwater monitoring has been conducted on an annual basis since 2009 from eight existing onsite groundwater monitoring wells (monitoring wells FWMW-1 through FWMW-3, FWMW-5, B-MW-3, MW-101RD, MW-102R, and MW-103R) to evaluate the concentrations of COCs in groundwater and confirm that groundwater quality is improving and/or does not represent a significant threat to human health or the environment based on the contemplated use of the Site. The groundwater samples collected for each annual monitoring event are submitted to a certified analytical laboratory for analyses for Target Compound List (TCL) VOCs, TCL SVOCs, and TAL metals (including cyanide). Quality Assurance/Quality Control (QA/QC) samples (including trip blank, field duplicate, matrix spike, and matrix spike duplicate samples) are also collected and submitted for laboratory analyses for each annual sampling event. The annual groundwater monitoring results are presented in Table 6 and are discussed in detail in annual groundwater monitoring reports that are submitted to the NYSDEC. Periodic NAPL monitoring has also been performed for the three recovery wells installed following the remedial activities



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and for monitoring well MW-101RD. The NAPL monitoring results are summarized in Table 7 and discussed in each annual groundwater monitoring report submitted to the NYSDEC. An annual site inspection is also conducted concurrently with the annual groundwater and NAPL monitoring activities and at other times during each year to confirm that the institutional and engineering controls outlined in the SMP remain in-place and are continuing to function. A summary of the site inspection is included in each annual monitoring report submitted to the NYSDEC.

## 5 REFERENCES

Arcadis. 2005. *Remedial Investigation Report*. Little Falls (Mill Street) Former MGP Site, Little Falls, New York. Prepared for National Grid.

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Arcadis. 2011. *Site Management Plan*. Little Falls (Mill Street) Former MGP Site, Little Falls, New York. Prepared for National Grid. 2011.

New York State Department of Environmental Conservation. 2011. *Decision Document for Little falls Former MGP Site*. March

TABLES



Table 1  
Summary of Soil Analytical Results (ppm)

Final Engineering Report  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	MW-101R 10 - 12 10/15/04	MW-101R 16 - 18 10/15/04	MW-101RD 14 - 16 01/13/05	MW-102R 10 - 12 10/19/04	MW-102R 18 - 22 10/19/04	MW-103R 8 - 10 01/11/05	MW-103R 14 - 16 01/11/05	SB-101 8 - 10 10/22/04	SB-102 14 - 16 10/22/04	SB-102 16 - 18 10/22/04
<b>VOCs</b>												
1,1,1-Trichloroethane	0.8	mg/kg	0.0010 J	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
1,1,2,2-Tetrachloroethane	0.6	mg/kg	0.0011 U	0.12 U	0.0012 U [0.0012 U]	0.0011 U	0.0015 U	0.0012 U	0.0012 U	0.0011 U	0.0010 U	0.0011 U [0.0011 U]
1,1,2-Trichloroethane	--	mg/kg	0.0032 U	0.37 U	0.0036 U [0.0037 U]	0.0032 U	0.0045 U	0.0035 U	0.0034 U	0.0034 U	0.0032 U	0.0034 U [0.0033 U]
1,1-Dichloroethane	0.2	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
1,1-Dichloroethene	0.4	mg/kg	0.0021 U	0.25 U	0.0024 U [0.0024 U]	0.0021 U	0.0030 U	0.0023 U	0.0023 U	0.0023 U	0.0021 U	0.0022 U [0.0022 U]
1,2-Dichloroethane	0.1	mg/kg	0.0021 UJ	0.25 U	0.0024 U [0.0024 U]	0.0021 U	0.0030 U	0.0023 U	0.0023 U	0.0023 U	0.0021 U	0.0022 U [0.0022 U]
1,2-Dichloropropane	--	mg/kg	0.0011 U	0.12 U	0.0012 U [0.0012 U]	0.0011 U	0.0015 U	0.0012 U	0.0012 U	0.0011 U	0.0010 U	0.0011 U [0.0011 U]
2-Butanone	0.3	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 UJ	0.012	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
2-Hexanone	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 UJ	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
4-Methyl-2-Pentanone	1	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 UJ	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Acetone	0.2	mg/kg	0.13 U	3.0	0.092 UJ [0.075 UJ]	0.0091 U	0.084	0.042 UJ	0.014 UJ	0.060 U	0.053 U	0.063 UJ [0.060 U]
Benzene	0.06	mg/kg	0.0059	0.72	0.0015 [0.0016]	0.0011 U	0.0015 U	0.0011 J	0.0012 U	0.0075	0.0010 U	0.0011 U [0.0011 U]
Bromodichloromethane	--	mg/kg	0.0011 U	0.12 U	0.0012 U [0.0012 U]	0.0011 U	0.0015 U	0.0012 U	0.0012 U	0.0011 U	0.0010 U	0.0011 U [0.0011 U]
Bromoform	--	mg/kg	0.0042 U	0.49 U	0.0048 U [0.0049 U]	0.0042 U	0.0060 U	0.0046 U	0.0046 U	0.0046 U	0.0042 U	0.0045 U [0.0044 U]
Bromomethane	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Carbon Disulfide	2.7	mg/kg	0.0053 U	0.20 J	0.0021 J [0.0023 J]	0.0053 U	0.0028 J	0.0025 J	0.0012 J	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Carbon Tetrachloride	0.6	mg/kg	0.0021 U	0.25 U	0.0024 U [0.0024 U]	0.0021 U	0.0030 U	0.0023 U	0.0023 U	0.0023 U	0.0021 U	0.0022 U [0.0022 U]
Chlorobenzene	1.7	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Chloroethane	1.9	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Chloroform	0.3	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.00080 J]
Chloromethane	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
cis-1,2-Dichloroethene	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
cis-1,3-Dichloropropene	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Dibromochloromethane	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Ethylbenzene	5.5	mg/kg	0.0042 U	2.4	0.0048 U [0.0049 U]	0.0042 U	0.0060 U	0.0046 U	0.0046 U	0.0046 U	0.0042 U	0.0045 U [0.0044 U]
Methylene Chloride	0.1	mg/kg	0.0032 U	0.37 U	0.018 U [0.016 U]	0.0032 U	0.0045 U	0.016 U	0.017 U	0.0034 U	0.0032 U	0.0034 U [0.0033 U]
Styrene	--	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Tetrachloroethene	1.4	mg/kg	0.0011 U	0.12 U	0.0012 U [0.0012 U]	0.0011 U	0.0015 U	0.0012 U	0.0012 U	0.0011 UJ	0.0010 U	0.0011 U [0.0011 U]
Toluene	1.5	mg/kg	0.0032 J	1.4	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
trans-1,2-Dichloroethene	0.3	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
trans-1,3-Dichloropropene	--	mg/kg	0.0053 UJ	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Trichloroethene	0.7	mg/kg	0.0011 U	0.12 U	0.0012 U [0.0012 U]	0.0011 U	0.0015 U	0.0012 U	0.0012 U	0.0011 U	0.0010 U	0.0011 U [0.0011 U]
Vinyl Chloride	0.2	mg/kg	0.0053 U	0.62 U	0.0060 U [0.0061 U]	0.0053 U	0.0075 U	0.0058 U	0.0058 U	0.0057 U	0.0053 U	0.0056 U [0.0055 U]
Xylene (Total)	1.2	mg/kg	0.0053 U	10	0.0060 U [0.0061 U]	0.0053 U	0.0022 J	0.0058 U	0.0058 U	0.0040 J	0.0053 U	0.0056 U [0.0055 U]
<b>BTEX</b>												
Total BTEX	--	mg/kg	0.0091 J	15	0.0015 [0.0016]	ND	0.0022 J	0.0011 J	ND	0.012 J	ND	ND [ND]
<b>SVOCs</b>												
1,2,4-Trichlorobenzene	3.4	mg/kg	0.72 U	2.2 U	0.083 U [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.19 U	0.036 U	0.19 U [0.038 U]
1,2-Dichlorobenzene	7.9	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
1,3-Dichlorobenzene	1.6	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
1,4-Dichlorobenzene	8.5	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2,4,5-Trichlorophenol	0.1	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2,4,6-Trichlorophenol	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2,4-Dichlorophenol	0.4	mg/kg	7.2 U	22 U	0.019 J [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2,4-Dimethylphenol	--	mg/kg	7.2 U	0.95 J	0.051 J [0.039 J]	0.37 U	0.032 J	0.013 J	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
<b>SVOCs (Continued)</b>												
2,4-Dinitrophenol	0.2	mg/kg	29 UJ	87 UJ	3.3 U [3.3 U]	1.5 U	2.1 U	1.6 U	1.5 U	7.7 U	1.4 U	7.6 U [1.5 U]

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Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	MW-101R 10 - 12 10/15/04	MW-101R 16 - 18 10/15/04	MW-101RD 14 - 16 01/13/05	MW-102R 10 - 12 10/19/04	MW-102R 18 - 22 10/19/04	MW-103R 8 - 10 01/11/05	MW-103R 14 - 16 01/11/05	SB-101 8 - 10 10/22/04	SB-102 14 - 16 10/22/04	SB-102 16 - 18 10/22/04
2,4-Dinitrotoluene	--	mg/kg	1.4 U	4.4 U	0.17 U [0.16 U]	0.074 U	0.10 U	0.078 U	0.077 U	0.38 U	0.071 U	0.38 U [0.076 U]
2,6-Dinitrotoluene	1	mg/kg	1.4 U	4.4 U	0.17 U [0.16 U]	0.074 U	0.10 U	0.078 U	0.077 U	0.38 U	0.071 U	0.38 U [0.076 U]
2-Chloronaphthalene	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2-Chlorophenol	0.8	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2-Methylnaphthalene	36.4	mg/kg	7.2 U	150	0.40 J [0.45 J]	0.37 U	0.097 J	0.13 J	0.012 J	0.85 J	0.60	0.91 J [0.24 J]
2-Methylphenol	0.1	mg/kg	7.2 U	22 U	0.050 J [0.032 J]	0.37 U	0.53 U	0.015 J	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
2-Nitroaniline	0.43	mg/kg	14 U	44 U	1.7 U [1.6 U]	0.74 U	1.0 U	0.78 U	0.77 U	3.8 U	0.71 U	3.8 U [0.76 U]
2-Nitrophenol	0.33	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
3,3'-Dichlorobenzidine	--	mg/kg	14 U	44 U	1.7 U [1.6 U]	0.74 U	1.0 U	0.78 U	0.77 U	3.8 U	0.71 U	3.8 U [0.76 U]
4-Nitroaniline	0.5	mg/kg	14 U	44 U	1.7 U [1.6 U]	0.74 U	1.0 U	0.78 U	0.77 U	3.8 U	0.71 U	3.8 U [0.76 U]
4,6-Dinitro-2-methylphenol	--	mg/kg	29 U	87 U	3.3 U [3.3 U]	1.5 U	2.1 U	1.6 U	1.5 U	7.7 U	1.4 U	7.6 U [1.5 U]
4-Bromophenyl-phenylether	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
4-Chloro-3-methylphenol	0.24	mg/kg	7.2 U	22 U	0.032 J [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
4-Chloroaniline	0.22	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
4-Chlorophenyl-phenylether	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
4-Methylphenol	0.9	mg/kg	7.2 U	22 U	0.10 J [0.095 J]	0.37 U	0.12 J	0.046 J	0.38 U	1.9 U	0.36 U	1.9 U [0.0096 J]
4-Nitroaniline	--	mg/kg	14 U	44 U	1.7 U [1.6 U]	0.74 U	1.0 U	0.78 U	0.77 U	3.8 U	0.71 U	3.8 U [0.76 U]
4-Nitrophenol	0.1	mg/kg	29 U	87 U	3.3 U [3.3 U]	1.5 U	2.1 U	1.6 U	1.5 U	7.7 U	1.4 U	7.6 U [1.5 U]
Acenaphthene	50	mg/kg	7.2 U	70	0.34 J [0.39 J]	0.37 U	0.022 J	0.091 J	0.012 J	0.38 J	0.068 J	1.5 J [0.26 J]
Acenaphthylene	41	mg/kg	7.2 U	22	1.9 [2.0]	0.37 U	0.074 J	0.30 J	0.026 J	0.67 J	0.074 J	0.10 J [0.071 J]
Anthracene	50	mg/kg	4.5 J	66	1.8 [2.1]	0.0088 J	0.13 J	0.67	0.057 J	1.3 J	0.22 J	3.6 J [0.64 J]
Benzo(a)anthracene	0.224	mg/kg	37	46	4.6 [5.0]	0.037 U	0.27	1.6	0.17	3.5	0.68	5.3 J [1.2 J]
Benzo(a)pyrene	0.061	mg/kg	80	40	4.6 [5.2]	0.037 U	0.32	1.6	0.18	3.0	0.57	3.3 [1.2]
Benzo(b)fluoranthene	1.1	mg/kg	110	18	2.8 [3.3]	0.037 U	0.27	1.1	0.12	2.0	0.45	2.3 [0.83]
Benzo(g,h,i)perylene	50	mg/kg	67	23	0.92 [1.1 J]	0.37 U	0.20 J	0.87	0.15 J	1.9 J	0.24 J	2.5 J [0.59 J]
Benzo(k)fluoranthene	1.1	mg/kg	54	28	5.4 [6.0]	0.037 U	0.38	1.5	0.17	3.4	0.75	3.0 [1.1]
bis(2-Chloroethoxy)methane	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
bis(2-Chloroethyl)ether	--	mg/kg	0.72 U	2.2 U	0.018 J [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.19 U	0.036 U	0.19 U [0.038 U]
bis(2-chloroisopropyl)ether	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
bis(2-Ethylhexyl)phthalate	50	mg/kg	7.2 U	22 U	0.24 J [0.34 J]	0.37 U	0.53 U	0.28 J	1.1	1.9 U	0.20 J	1.9 U [0.38 U]
Butylbenzylphthalate	50	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.23 J	1.9 U [0.38 U]
Carbazole	--	mg/kg	2.2 J	15 J	0.38 J [0.54 J]	0.37 U	0.046 J	0.096 J	0.016 J	0.38 J	0.076 J	0.82 J [0.16 J]
Chrysene	0.4	mg/kg	140	45	4.4 [4.8]	0.37 U	0.35 J	1.4	0.17 J	3.7	0.76	5.4 J [1.5 J]
Dibenz(a,h)anthracene	0.014	mg/kg	25	8.3	0.48 [0.55 J]	0.037 U	0.053 U	0.34	0.037 J	0.65	0.12	1.0 J [0.22 J]
Dibenzofuran	6.2	mg/kg	0.83 J	37	0.70 J [0.95]	0.37 U	0.048 J	0.18 J	0.013 J	0.49 J	0.22 J	0.54 J [0.12 J]
Diethylphthalate	7.1	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.12 J	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Dimethylphthalate	2	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Di-n-butylphthalate	8.1	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	8.0	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Di-n-octylphthalate	50	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Fluoranthene	50	mg/kg	110	76	4.8 [6.3]	0.047 J	0.52 J	1.9	0.22 J	7.3	1.2	9.6 J [2.4 J]
Fluorene	50	mg/kg	0.17 J	71	0.96 [1.3]	0.37 U	0.059 J	0.31 J	0.019 J	0.47 J	0.070 J	1.4 J [0.26 J]
Hexachlorobenzene	0.41	mg/kg	0.72 U	2.2 U	0.083 U [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.19 U	0.036 U	0.19 U [0.038 U]
Hexachlorobutadiene	--	mg/kg	1.4 U	4.4 U	0.17 U [0.16 U]	0.074 U	0.10 U	0.078 U	0.077 U	0.38 U	0.071 U	0.38 U [0.076 U]
Hexachlorocyclopentadiene	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
<b>SVOCs (Continued)</b>												
Hexachloroethane	--	mg/kg	0.72 U	2.2 U	0.083 U [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.19 U	0.036 U	0.19 U [0.038 U]
Indeno(1,2,3-cd)pyrene	3.2	mg/kg	55	15	1.0 [1.2 J]	0.037 U	0.18	0.88	0.12 J	1.7	0.24	2.0 J [0.52 J]
Isophorone	4.4	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Naphthalene	13	mg/kg	0.30 J	230	0.82 J [0.89]	0.37 U	0.12 J	0.24 J	0.030 J	0.46 J	0.28 J	0.52 J [0.16 J]

Table 1  
Summary of Soil Analytical Results (ppm)

Final Engineering Report  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	MW-101R 10 - 12 10/15/04	MW-101R 16 - 18 10/15/04	MW-101RD 14 - 16 01/13/05	MW-102R 10 - 12 10/19/04	MW-102R 18 - 22 10/19/04	MW-103R 8 - 10 01/11/05	MW-103R 14 - 16 01/11/05	SB-101 8 - 10 10/22/04	SB-102 14 - 16 10/22/04	SB-102 16 - 18 10/22/04
Nitrobenzene	0.2	mg/kg	0.72 U	2.2 U	0.083 U [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.84	0.036 U	0.19 U [0.038 U]
N-Nitroso-di-n-propylamine	--	mg/kg	0.72 U	2.2 U	0.083 U [0.083 U]	0.037 U	0.053 U	0.039 U	0.038 U	0.19 U	0.036 U	0.19 U [0.038 U]
N-Nitrosodiphenylamine	--	mg/kg	7.2 U	22 U	0.83 U [0.83 U]	0.37 U	0.53 U	0.39 U	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Pentachlorophenol	1	mg/kg	29 U	87 U	3.3 U [3.3 U]	1.5 U	2.1 U	1.6 U	1.5 U	7.7 U	1.4 U	7.6 U [1.5 U]
Phenanthrene	50	mg/kg	42	190	5.1 [7.1]	0.031 J	0.45 J	1.6	0.16 J	6.1	1.3	16 J [3.0 J]
Phenol	0.03	mg/kg	7.2 UJ	22 UJ	0.83 U [0.83 U]	0.37 UJ	0.53 UJ	0.042 J	0.38 U	1.9 U	0.36 U	1.9 U [0.38 U]
Pyrene	50	mg/kg	63	120	8.8 [11]	0.042 J	0.59	2.3	0.25 J	6.7	1.0	9.6 J [2.8 J]
<b>PAHs</b>												
Total PAHs	--	mg/kg	790 J	1,200	49 J [59 J]	0.13 J	4.0 J	17 J	1.9 J	44 J	8.6 J	68 J [17 J]
<b>CPAHs</b>												
Total CPAHs	--	mg/kg	500	200	23 [26 J]	ND	1.8 J	8.4	0.97 J	18	3.6	22 J [6.6 J]
<b>Inorganics</b>												
Aluminum	--	mg/kg	4,110	5,560	5,410 [5,580]	4,150	5,360	4,610	2,720	2,940	3,350	3,310 [2,910]
Antimony	--	mg/kg	2.10 UJ	2.60 UJ	2.40 UJ [2.40 UJ]	2.20 UJ	4.60 J	2.40 UJ	2.20 UJ	2.30 U	2.20 UJ	2.30 UJ [2.30 UJ]
Arsenic	7.5	mg/kg	7.60 J	4.20	4.60 [4.50]	4.60	13.8 J	12.5	9.90	22.3	7.10	3.20 [2.10]
Barium	300	mg/kg	31.3 BJ	38.4 BJ	33.7 B [35.2 B]	31.4 B	125	88.9	105	189	55.0	27.1 B [32.3 B]
Beryllium	0.16	mg/kg	0.470	0.470 B	0.510 [0.510]	0.310 B	0.540 B	0.580	0.430 B	0.920	0.430	0.300 B [0.290 B]
Cadmium	1	mg/kg	0.130 B	1.20 U	1.20 U [1.20 U]	1.10 U	0.270 BJ	1.20 U	1.10 U	1.10 U	1.10 U	1.10 U [1.10 U]
Calcium	--	mg/kg	48,800 J	22,900 J	12,800 [13,100]	131,000 J	15,500	54,700	69,900	27,100	10,700	3,530 J [4,200 J]
Chromium	10	mg/kg	13.3	18.2	9.10 [9.10]	7.00	13.2	40.7	12.9	10.3	7.90 J	6.90 [6.30]
Cobalt	30	mg/kg	4.60 J	5.90 BJ	5.00 B [5.00 B]	4.60 B	3.80 B	4.90 B	3.60 B	6.10 B	4.50 B	3.60 B [2.90 B]
Copper	25	mg/kg	21.6 J	1,480 J	15.3 [15.0]	16.0	217	32.9	15.3	68.4	18.0	18.2 [14.4]
Iron	2,000	mg/kg	10,100	14,000	14,200 [14,200]	12,800	16,800	16,300	13,600	19,700	9,620	12,200 [8,460]
Lead	--	mg/kg	42.4 J	30.9 J	22.2 J [21.5 J]	4.40	158	106 J	50.3 J	94.0	74.4	29.9 [23.5]
Magnesium	--	mg/kg	3,510	6,320	3,680 [3,340]	7,140	2,500	8,700	11,200	4,890	3,170	1,790 [1,780]
Manganese	--	mg/kg	175 J	239 J	442 [526]	391	155	495	561	219	121	90.2 [78.1]
Mercury	0.1	mg/kg	0.150	0.0700	0.0900 [0.0700]	0.0200 BJ	0.100 BJ	0.130	0.0900	0.280 U	0.0800 BJ	0.0500 J [0.0860 UJ]
Nickel	13	mg/kg	11.8	13.5	11.3 [11.2]	12.9	13.5	14.5	10.7	13.5	10.8	9.00 B [8.10 B]
Potassium	--	mg/kg	526 BJ	934 BJ	532 B [496 B]	680 B	958 B	790 B	508 B	492 B	581 B	531 B [498 B]
Selenium	2	mg/kg	1.10 U	1.30 U	2.00 [1.20 U]	1.10 U	1.60 U	1.20 U	1.20 U	3.10	1.10 U	1.20 U [1.20 U]
Silver	--	mg/kg	2.10 U	2.60 U	2.50 U [2.50 U]	2.20 U	3.10 U	2.40 U	2.30 U	2.20 U	2.10 U	2.20 U [2.20 U]
Sodium	--	mg/kg	227 B	166 B	140 B [129 B]	1,100 U	507 B	297 B	176 B	243 B	197 B	100 B [125 B]
Thallium	--	mg/kg	2.10 U	2.60 U	2.60 U [2.60 U]	2.20 U	3.20 U	2.30 U	2.30 U	2.30 U	2.10 U	2.30 U [2.30 U]
Total Cyanide	--	mg/kg	1.00	0.500 U	1.00 [1.20]	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U [0.500 U]
Vanadium	150	mg/kg	10.2 B	14.7	14.7 [14.1]	11.0	13.9 B	15.4	10.1 B	16.4	13.9	10.4 B [9.40 B]
Zinc	20	mg/kg	57.1 J	58.5 J	51.7 [49.3]	40.3	402	97.3	37.7	222	60.1	36.5 [35.3]

**Table 1**  
**Summary of Soil Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	SB-103 14 - 16 10/21/04	SB-103 16 - 18 10/21/04	SB-104 4 - 6 10/28/04	SB-104 10 - 12 10/28/04	SB-105 2 - 4 10/29/04	SB-106 4.5 - 6 10/28/04	SB-106 6 - 8 10/28/04	SS-101 10/28/04	SS-102 10/28/04	SS-103 10/28/04	TP-101 2 - 4 10/29/04	TP-102 4 - 6 10/29/04
<b>VOCS</b>														
1,1,1-Trichloroethane	0.8	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
1,1,2,2-Tetrachloroethane	0.6	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0012 U	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
1,1,2-Trichloroethane	--	mg/kg	0.0036 U	0.0032 U	0.0034 U	0.0037 U	0.0033 U	0.0031 U	0.0038 U	NR	NR	NR	0.0034 U	0.0032 U
1,1-Dichloroethane	0.2	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
1,1-Dichloroethene	0.4	mg/kg	0.0024 U	0.0021 U	0.0023 U	0.0025 U	0.0022 U	0.0021 U	0.0025 U	NR	NR	NR	0.0023 U	0.0021 U
1,2-Dichloroethane	0.1	mg/kg	0.0024 U	0.0021 U	0.0023 U	0.0025 U	0.0022 U	0.0021 U	0.0025 U	NR	NR	NR	0.0023 U	0.0021 U
1,2-Dichloropropane	--	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0012 U	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
2-Butanone	0.3	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
2-Hexanone	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
4-Methyl-2-Pentanone	1	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Acetone	0.2	mg/kg	0.057 U	0.071 U	0.10 U	0.14	0.091 U	0.048 U	0.062 U	NR	NR	NR	0.066 U	0.082 U
Benzene	0.06	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0032	0.0011 U	0.0017	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
Bromodichloromethane	--	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0012 U	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
Bromoform	--	mg/kg	0.0048 U	0.0042 U	0.0045 U	0.0050 U	0.0044 U	0.0042 U	0.0050 U	NR	NR	NR	0.0045 U	0.0043 U
Bromomethane	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Carbon Disulfide	2.7	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.028	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Carbon Tetrachloride	0.6	mg/kg	0.0024 U	0.0021 U	0.0023 U	0.0025 U	0.0022 U	0.0021 U	0.0025 U	NR	NR	NR	0.0023 U	0.0021 U
Chlorobenzene	1.7	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Chloroethane	1.9	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Chloroform	0.3	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Chloromethane	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
cis-1,2-Dichloroethene	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
cis-1,3-Dichloropropene	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Dibromochloromethane	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Ethylbenzene	5.5	mg/kg	0.0048 U	0.0042 U	0.0045 U	0.034	0.0044 U	0.0042 U	0.0050 U	NR	NR	NR	0.0045 U	0.0043 U
Methylene Chloride	0.1	mg/kg	0.0036 U	0.0032 U	0.0034 U	0.0037 U	0.0033 U	0.0031 U	0.0038 U	NR	NR	NR	0.0034 U	0.0032 U
Styrene	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Tetrachloroethene	1.4	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0012 U	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
Toluene	1.5	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0040 J	0.0055 U	0.0022 J	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
trans-1,2-Dichloroethene	0.3	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
trans-1,3-Dichloropropene	--	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Trichloroethene	0.7	mg/kg	0.0012 U	0.0010 U	0.0011 U	0.0012 U	0.0011 U	0.0010 U	0.0012 U	NR	NR	NR	0.0011 U	0.0011 U
Vinyl Chloride	0.2	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.0062 U	0.0055 U	0.0052 U	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
Xylene (Total)	1.2	mg/kg	0.0060 U	0.0053 U	0.0057 U	0.083	0.0055 U	0.0030 J	0.0063 U	NR	NR	NR	0.0057 U	0.0053 U
<b>BTEX</b>														
Total BTEX	--	mg/kg	ND	ND	ND	0.12 J	ND	0.0069 J	ND	NA	NA	NA	ND	ND
<b>SVOCs</b>														
1,2,4-Trichlorobenzene	3.4	mg/kg	0.081 U	0.036 U	0.038 U	0.21 U	0.039 U	0.18 U	0.044 U	0.039 U	0.037 U	0.036 U	0.39 U	0.037 U
1,2-Dichlorobenzene	7.9	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
1,3-Dichlorobenzene	1.6	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
1,4-Dichlorobenzene	8.5	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2,4,5-Trichlorophenol	0.1	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2,4,6-Trichlorophenol	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2,4-Dichlorophenol	0.4	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2,4-Dimethylphenol	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
<b>SVOCs (Continued)</b>														
2,4-Dinitrophenol	0.2	mg/kg	3.2 U	1.4 U	1.5 U	8.3 U	1.6 U	7.4 U	1.8 U	1.6 U	1.5 U	1.5 U	16 U	1.5 U

**Table 1**  
**Summary of Soil Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	SB-103 14 - 16 10/21/04	SB-103 16 - 18 10/21/04	SB-104 4 - 6 10/28/04	SB-104 10 - 12 10/28/04	SB-105 2 - 4 10/29/04	SB-106 4.5 - 6 10/28/04	SB-106 6 - 8 10/28/04	SS-101 10/28/04	SS-102 10/28/04	SS-103 10/28/04	TP-101 2 - 4 10/29/04	TP-102 4 - 6 10/29/04
2,4-Dinitrotoluene	--	mg/kg	0.16 U	0.072 U	0.077 U	0.41 U	0.078 U	0.37 U	0.088 U	0.078 U	0.074 U	0.073 U	0.78 U	0.074 U
2,6-Dinitrotoluene	1	mg/kg	0.16 U	0.072 U	0.077 U	0.41 U	0.078 U	0.37 U	0.088 U	0.078 U	0.074 U	0.073 U	0.78 U	0.074 U
2-Chloronaphthalene	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2-Chlorophenol	0.8	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2-Methylnaphthalene	36.4	mg/kg	0.17 J	0.034 J	0.053 J	1.0 J	0.23 J	2.1	0.16 J	0.39 U	0.37 U	0.068 J	1.5 J	0.15 J
2-Methylphenol	0.1	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
2-Nitroaniline	0.43	mg/kg	1.6 U	0.72 U	0.77 U	4.1 U	0.78 U	3.7 U	0.88 U	0.78 U	0.74 U	0.73 U	7.8 U	0.74 U
2-Nitrophenol	0.33	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
3,3'-Dichlorobenzidine	--	mg/kg	1.6 U	0.72 U	0.77 U	4.1 U	0.78 U	3.7 U	0.88 U	0.78 U	0.74 U	0.73 U	7.8 U	0.74 U
3-Nitroaniline	0.5	mg/kg	1.6 U	0.72 U	0.77 U	4.1 U	0.78 U	3.7 U	0.88 U	0.78 U	0.74 U	0.73 U	7.8 U	0.74 U
4,6-Dinitro-2-methylphenol	--	mg/kg	3.2 U	1.4 U	1.5 U	8.3 U	1.6 U	7.4 U	1.8 U	1.6 U	1.5 U	1.5 U	16 U	1.5 U
4-Bromophenyl-phenylether	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
4-Chloro-3-methylphenol	0.24	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
4-Chloroaniline	0.22	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
4-Chlorophenyl-phenylether	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
4-Methylphenol	0.9	mg/kg	0.26 J	0.36 U	0.38 UJ	0.12 J	0.39 UJ	0.038 J	0.44 UJ	0.39 UJ	0.37 J	0.36 UJ	0.19 J	0.020 J
4-Nitroaniline	--	mg/kg	1.6 U	0.72 U	0.77 U	4.1 U	0.78 U	3.7 U	0.88 U	0.78 U	0.74 U	0.73 U	7.8 U	0.74 U
4-Nitrophenol	0.1	mg/kg	3.2 U	1.4 U	1.5 U	8.3 U	1.6 U	7.4 U	1.8 U	1.6 UJ	1.5 U	1.5 U	16 UJ	1.5 U
Acenaphthene	50	mg/kg	0.072 J	0.011 J	0.011 J	5.8	0.66	0.74 J	0.20 J	0.39 U	0.37 U	0.18 J	3.6 J	0.21 J
Acenaphthylene	41	mg/kg	0.080 J	0.011 J	0.044 J	2.9	0.056 J	2.9	0.060 J	0.064 J	0.37 U	0.36 U	2.3 J	0.49
Anthracene	50	mg/kg	0.30 J	0.035 J	0.064 J	14	1.5	6.3	0.21 J	0.044 J	0.016 J	0.34 J	9.8	0.82
Benzo(a)anthracene	0.224	mg/kg	0.84	0.12	0.15	12	2.3	7.3	0.35	0.13	0.056	0.58	26	1.7
Benzo(a)pyrene	0.061	mg/kg	0.89	0.14	0.13	10	2.0	6.6	0.34	0.15	0.066	0.60	28	1.8
Benzo(b)fluoranthene	1.1	mg/kg	0.74	0.22	0.11	7.2	2.0	4.4	0.27	0.14	0.053	0.64	27	1.9
Benzo(g,h,i)perylene	50	mg/kg	0.25 J	0.23 J	0.079 J	4.9	1.4	3.4	0.20 J	0.058 J	0.37 U	0.34 J	11	0.73
Benzo(k)fluoranthene	1.1	mg/kg	1.2	0.20	0.14	9.2	2.0	6.8	0.30	0.14	0.081	0.54	23	1.8
bis(2-Chloroethoxy)methane	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
bis(2-Chloroethyl)ether	--	mg/kg	0.081 U	0.036 UJ	0.038 U	0.21 U	0.039 U	0.18 U	0.044 U	0.039 U	0.037 U	0.036 U	0.39 U	0.037 U
bis(2-chloroisopropyl)ether	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
bis(2-Ethylhexyl)phthalate	50	mg/kg	0.81 U	0.091 J	0.38 U	2.1 U	0.14 J	1.8 U	0.44 U	0.39 U	0.37 U	0.12 J	3.9 U	0.37 U
Butylbenzylphthalate	50	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.16 J	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Carbazole	--	mg/kg	0.079 J	0.0098 J	0.38 U	3.4	0.65	0.77 J	0.12 J	0.39 U	0.37 U	0.17 J	4.2	0.27 J
Chrysene	0.4	mg/kg	0.87	0.18 J	0.16 J	10	2.6	6.9	0.36 J	0.20 J	0.075 J	0.68	26	1.8
Dibenz(a,h)anthracene	0.014	mg/kg	0.081 UJ	0.088	0.038 U	1.7	0.44	1.2	0.082	0.039 U	0.037 U	0.14	4.7	0.29
Dibenzofuran	6.2	mg/kg	0.061 J	0.011 J	0.021 J	8.4	0.49	2.7	0.14 J	0.39 U	0.37 U	0.094 J	2.4 J	0.18 J
Diethylphthalate	7.1	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Dimethylphthalate	2	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Di-n-butylphthalate	8.1	mg/kg	1.4 J	0.36 UJ	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Di-n-octylphthalate	50	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Fluoranthene	50	mg/kg	1.7	0.20 J	0.26 J	28	5.7	15	0.66	0.30 J	0.12 J	1.3	45	3.0
Fluorene	50	mg/kg	0.086 J	0.014 J	0.38 U	11	0.77	3.8	0.18 J	0.39 U	0.37 U	0.14 J	4.5	0.26 J
Hexachlorobenzene	0.41	mg/kg	0.081 U	0.036 U	0.038 U	0.21 U	0.039 U	0.18 U	0.044 U	0.039 U	0.037 U	0.036 U	0.39 U	0.037 U
Hexachlorobutadiene	--	mg/kg	0.16 U	0.072 U	0.077 U	0.41 U	0.078 U	0.37 U	0.088 U	0.078 U	0.074 U	0.073 U	0.78 U	0.074 U
Hexachlorocyclopentadiene	--	mg/kg	0.81 UJ	0.36 U	0.38 UJ	2.1 UJ	0.39 UJ	1.8 UJ	0.44 UJ	0.39 UJ	0.37 UJ	0.36 UJ	3.9 UJ	0.37 UJ
<b>SVOCs (Continued)</b>														
Hexachloroethane	--	mg/kg	0.081 U	0.036 U	0.038 U	0.21 U	0.039 U	0.18 U	0.044 U	0.039 U	0.037 U	0.036 U	0.39 U	0.037 U
Indeno(1,2,3-cd)pyrene	3.2	mg/kg	0.24 J	0.20	0.069	4.9	1.2	3.3	0.18	0.060	0.037 U	0.33	12	0.78
Isophorone	4.4	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Naphthalene	13	mg/kg	0.52 J	0.031 J	0.066 J	3.1	0.41	2.1	0.49	0.39 U	0.37 U	0.070 J	2.8 J	0.18 J



**Table 1**  
**Summary of Soil Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Sample Depth(Feet): Date Collected:	NY TAGM Rec SCOs	Units	SB-103 14 - 16 10/21/04	SB-103 16 - 18 10/21/04	SB-104 4 - 6 10/28/04	SB-104 10 - 12 10/28/04	SB-105 2 - 4 10/29/04	SB-106 4.5 - 6 10/28/04	SB-106 6 - 8 10/28/04	SS-101 10/28/04	SS-102 10/28/04	SS-103 10/28/04	TP-101 2 - 4 10/29/04	TP-102 4 - 6 10/29/04
Nitrobenzene	0.2	mg/kg	0.081 U	0.036 U	0.038 UJ	0.21 UJ	0.039 UJ	0.18 UJ	0.044 UJ	0.039 U	0.037 UJ	0.036 UJ	0.39 U	0.037 UJ
N-Nitroso-di-n-propylamine	--	mg/kg	0.081 U	0.036 U	0.038 UJ	0.21 UJ	0.039 UJ	0.18 UJ	0.044 UJ	0.039 U	0.037 UJ	0.036 UJ	0.39 U	0.037 UJ
N-Nitrosodiphenylamine	--	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Pentachlorophenol	1	mg/kg	3.2 U	1.4 U	1.5 U	8.3 U	1.6 U	7.4 U	1.8 U	1.6 U	1.5 U	1.5 U	16 U	1.5 U
Phenanthrene	50	mg/kg	1.1	0.19 J	0.26 J	19	5.2	14	0.58	0.20 J	0.069 J	1.2	31	2.0
Phenol	0.03	mg/kg	0.81 U	0.36 U	0.38 U	2.1 U	0.39 U	1.8 U	0.44 U	0.39 U	0.37 U	0.36 U	3.9 U	0.37 U
Pyrene	50	mg/kg	1.6	0.21 J	0.26 J	23	4.7	12	0.63	0.37 J	0.12 J	1.2	50 J	2.9
<b>PAHs</b>														
Total PAHs	--	mg/kg	11 J	2.1 J	1.9 J	170 J	33 J	99 J	5.3 J	1.9 J	0.66 J	8.4 J	310 J	21 J
<b>CPAHs</b>														
Total CPAHs	--	mg/kg	4.8 J	1.2 J	0.76 J	55	13	37	1.9 J	0.82 J	0.33 J	3.5	150	10
<b>Inorganics</b>														
Aluminum	--	mg/kg	3,940	5,040	4,020	4,190	6,580	3,140	4,140	6,560	1,880	2,570	4,610	5,110
Antimony	--	mg/kg	1.20 BJ	2.20 UJ	2.30 UJ	2.50 UJ	2.00 B	2.20 UJ	2.60 UJ	2.10 UJ	2.20 UJ	2.20 UJ	2.40 UJ	0.860 BJ
Arsenic	7.5	mg/kg	13.1	14.6	6.30	5.80	9.40	5.20	5.60	6.50	3.20	6.80	9.50	6.90
Barium	300	mg/kg	143	100	58.8	28.4 B	186	30.3 B	34.7 B	35.6 B	11.3 B	30.0 B	1,580	119
Beryllium	0.16	mg/kg	0.270 B	0.500	0.250 B	0.270 B	0.430 B	0.240 B	0.290 B	0.320 B	0.140 B	0.220 B	0.370 B	0.400 B
Cadmium	1	mg/kg	0.390 B	0.210 B	1.10 UJ	1.20 UJ	1.20 UJ	1.10 UJ	1.40 UJ	1.10 UJ	1.10 UJ	0.0900 BJ	2.50 J	1.10 UJ
Calcium	--	mg/kg	7,490 J	35,700 J	90,300	68,900	63,300	90,700	119,000	3,920	50,100	45,100	56,000	66,100
Chromium	10	mg/kg	8.90	16.2	8.00 J	5.70 J	82.4 J	8.60 J	13.7 J	50.2 J	41.3 J	85.4 J	15.7 J	10.6 J
Cobalt	30	mg/kg	2.40 B	4.70 B	11.3	3.20 B	23.0	4.40 B	7.20 B	5.90 B	2.70 B	4.00 B	3.70 B	4.80 B
Copper	25	mg/kg	31.8	52.4	14.9	15.5	23.3	13.9	15.7	74.4	11.9	23.3	25.3	47.5
Iron	2,000	mg/kg	6,250	14,300	12,300 J	10,800 J	12,000 J	9,920 J	13,400	15,200 J	8,300 J	12,400 J	11,100	17,600 J
Lead	--	mg/kg	417	195	12.5 J	10.8 J	85.1 J	12.7 J	8.90 J	15.1 J	17.0 J	33.8 J	2,170 J	53.1 J
Magnesium	--	mg/kg	1,160 B	6,760	25,000 J	22,500 J	11,300 J	17,200 J	18,100 J	2,930 J	13,400 J	14,400 J	7,730 J	7,720 J
Manganese	--	mg/kg	182	316	582 J	388 J	350 J	361 J	509 J	507 J	320 J	362 J	239 J	420 J
Mercury	0.1	mg/kg	0.470 J	0.510 J	0.200 J	0.360 J	0.260 J	0.0900 J	0.0500 J	0.0500	0.0280 UJ	0.0700 J	0.160 J	0.100 J
Nickel	13	mg/kg	6.30 B	14.0	14.6	7.80 B	46.9	9.50	13.3	34.1	28.2	55.3	9.90	15.0
Potassium	--	mg/kg	714 B	575 B	709 B	424 B	701 B	519 B	598 B	612 B	270 B	341 B	618 B	613 B
Selenium	2	mg/kg	1.20 U	2.30	1.20 U	1.30 U	1.20 U	1.10 U	1.30 U	1.10 U	1.10 U	1.10 U	1.20 U	1.10 U
Silver	--	mg/kg	2.40 U	0.420 B	0.250 B	2.50 U	2.90	2.20 U	2.60 U	2.10 U	2.20 U	2.20 U	0.330 B	2.20 U
Sodium	--	mg/kg	336 B	159 B	250 B	300 B	684 B	91.0 B	1,300 U	1,100 U	1,100 U	1,100 U	324 B	147 B
Thallium	--	mg/kg	2.50 U	2.20 U	2.30 U	2.50 U	2.30 U	2.20 U	2.70 U	2.10 U	2.20 U	2.20 U	1.10 B	2.20 U
Total Cyanide	--	mg/kg	0.500 U	0.500 U	0.500 U	0.680 J	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Vanadium	150	mg/kg	9.50 B	16.4	11.5	8.10 B	16.2	8.60 B	11.3 B	12.9	11.4	11.3	20.0	13.5
Zinc	20	mg/kg	205	211	33.7	34.0	331	62.9	62.5	66.8	63.3	536	823	113

**Table 1**  
**Summary of Soil Analytical Results**



**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

**Notes:**

1. VOCs = Volatile organic compounds.
2. BTEX = Benzene, toluene, ethyl benzene, and xylene.
3. SVOCs = Semi-volatile organic compounds.
4. PAHs = Polycyclic aromatic hydrocarbons.
5. CPAHs = Carcinogenic polycyclic aromatic hydrocarbons.
6. NA = Not applicable.
7. Concentrations reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
8. [ ] indicates duplicate sample.
10. B = Constituent was found in the sample as well as its associated blank.
11. J = Estimated result. Result is less than the laboratory detection limit.
12. ND = Total PCBs were not detected at a concentration exceeding the laboratory detection limit.  
NR = There is presumptive evidence that the analyte is present, but it has not been confirmed. Data is considered to be rejected and shall not be used.
13. U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
14. UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.
15. SCOs = Soil cleanup objectives
16. NY TAGM Recommended SCOs are from the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) titled "Determination of Soil Cleanup Objectives and Cleanup Levels," HWR-94-4046 (TAGM 4046) dated January 24, 1994.
17. Shading indicates that the result exceeds the NYSDEC TAGM 4046 Soil Guidance Values.
18. -- = No TAGM 4046 Soil Guidance Value listed.

**Table 2**  
**Summary of Groundwater Sample Analytical Results (ppb)**  
**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, NY**

Location ID: Date Collected:	NYS Ambient Water Quality Standards and Guidance	Units	B-MW-03 02/09/05	FWMW-1 02/09/05	FWMW-2 02/08/05	FWMW-3 02/09/05	FWMW-4 02/08/05
<b>VOCs</b>							
1,1,1-Trichloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
1,1,2,2-Tetrachloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
1,1,2-Trichloroethane	1	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U [3.0 U]
1,1-Dichloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
1,1-Dichloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U [2.0 U]
1,2-Dichloroethane	0.6	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U [2.0 U]
1,2-Dichloropropane	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
2-Butanone	--	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
2-Hexanone	50	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ [5.0 UJ]
4-Methyl-2-Pentanone	--	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Acetone	50	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Benzene	0.7	ug/L	1.0 U	4.9	1.0 U	1.0 U	18 [16]
Bromodichloromethane	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Bromoform	50	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U [4.0 U]
Bromomethane	5	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ [5.0 UJ]
Carbon Disulfide	--	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Carbon Tetrachloride	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U [2.0 U]
Chlorobenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Chloroform	7	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Chloromethane	--	ug/L	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 U [5.0 U]
cis-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
cis-1,3-Dichloropropene	0.4	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Dibromochloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Ethylbenzene	5	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	8.1 [7.1]
Methylene Chloride	5	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U [3.0 U]
Styrene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.1 J [1.0 J]
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
trans-1,3-Dichloropropene	0.4	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Trichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]
Xylene (Total)	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	6.9 [6.0]
<b>BTEX</b>							
Total BTEX	--	ug/L	ND	4.9	ND	ND	34 J [30 J]
<b>SVOCs</b>							
1,2,4-Trichlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
1,2-Dichlorobenzene	3	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
1,3-Dichlorobenzene	3	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
1,4-Dichlorobenzene	3	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2,4,5-Trichlorophenol	1	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2,4,6-Trichlorophenol	1	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2,4-Dichlorophenol	1	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2,4-Dimethylphenol	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2,4-Dinitrophenol	10	ug/L	41 U	41 U	42 U	41 U	41 U [40 U]
2,4-Dinitrotoluene	5	ug/L	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U [2.0 U]
2,6-Dinitrotoluene	5	ug/L	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U [2.0 U]
2-Chloronaphthalene	10	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2-Chlorophenol	1	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2-Methylnaphthalene	--	ug/L	10 U	10 U	0.20 J	10 U	10 U [10 U]
2-Methylphenol	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
2-Nitroaniline	5	ug/L	20 U	20 U	21 U	20 U	21 U [20 U]
2-Nitrophenol	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
3,3'-Dichlorobenzidine	5	ug/L	20 U	20 U	21 U	20 U	21 U [20 U]
3-Nitroaniline	5	ug/L	20 U	20 U	21 U	20 U	21 U [20 U]
4,6-Dinitro-2-methylphenol	--	ug/L	41 U	41 U	42 U	41 U	41 U [40 U]
4-Bromophenyl-phenylether	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
4-Chloro-3-methylphenol	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
4-Chloroaniline	5	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
4-Chlorophenyl-phenylether	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
4-Methylphenol	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
4-Nitroaniline	5	ug/L	20 U	20 U	21 U	20 U	21 U [20 U]
4-Nitrophenol	--	ug/L	41 U	41 U	42 U	41 U	41 U [40 U]
Acenaphthene	20	ug/L	10 U	10 U	10 U	10 U	1.8 J [2.3 J]
Acenaphthylene	--	ug/L	10 U	10 U	10 U	10 U	4.2 J [5.7 J]
Anthracene	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Benzo(a)anthracene	0.002	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Benzo(a)pyrene	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Benzo(b)fluoranthene	0.002	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Benzo(g,h,i)perylene	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Benzo(k)fluoranthene	0.002	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
bis(2-Chloroethoxy)methane	5	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
bis(2-Chloroethyl)ether	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]

Table 2  
Summary of Groundwater Sample Analytical Results (ppb)  
Final Engineering Report  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, NY

Location ID: Date Collected:	NYS Ambient Water Quality Standards and Guidance	Units	B-MW-03 02/09/05	FWMW-1 02/09/05	FWMW-2 02/08/05	FWMW-3 02/09/05	FWMW-4 02/08/05
<b>SVOCs (Continued)</b>							
bis(2-chloroisopropyl)ether	5	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
bis(2-Ethylhexyl)phthalate	5	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Butylbenzylphthalate	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Carbazole	--	ug/L	10 U	10 U	10 U	10 U	3.4 J [4.0 J]
Chrysene	0.002	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Dibenz(a,h)anthracene	--	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U [1.0 U]
Dibenzofuran	--	ug/L	10 U	10 U	10 U	10 U	2.1 J [2.8 J]
Diethylphthalate	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Dimethylphthalate	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Di-n-butylphthalate	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Di-n-octylphthalate	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Fluoranthene	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Fluorene	50	ug/L	10 U	10 U	10 U	10 U	2.4 J [2.4 J]
Hexachlorobenzene	0.04	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Hexachlorobutadiene	0.5	ug/L	2.0 U	2.0 U	2.1 U	2.0 U	2.1 U [2.0 U]
Hexachlorocyclopentadiene	5	ug/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ [10 UJ]
Hexachloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Indeno(1,2,3-cd)pyrene	0.002	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
Isophorone	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Naphthalene	10	ug/L	10 U	10 U	10 U	10 U	3.2 J [3.1 J]
Nitrobenzene	0.4	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
N-Nitroso-di-n-propylamine	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]
N-Nitrosodiphenylamine	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Pentachlorophenol	1	ug/L	41 U	41 U	42 U	41 U	41 U [40 U]
Phenanthrene	50	ug/L	10 U	10 U	10 U	10 U	0.70 J [0.90 J]
Phenol	1	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
Pyrene	50	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]
<b>PAHs</b>							
Total PAHs	--	ug/L	ND	ND	0.20 J	ND	12 J [14 J]
<b>CPAHs</b>							
Total CPAHs	--	ug/L	ND	ND	ND	ND	ND [ND]
<b>Inorganics</b>							
Aluminum	--	ug/L	200 U	200 U	285	200 U	200 U [200 U]
Antimony	3	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U [10.0 U]
Arsenic	25	ug/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U [5.00 U]
Barium	1,000	ug/L	200 U	123 B	381	52.4 B	81.3 B [79.8 B]
Beryllium	3	ug/L	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U [2.00 U]
Cadmium	5	ug/L	4.00 U	4.00 U	4.00 U	4.00 U	4.00 U [4.00 U]
Calcium	--	ug/L	20,700	87,500	270,000	139,000	144,000 [145,000]
Chromium	50	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U [10.0 U]
Cobalt	--	ug/L	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U [50.0 U]
Copper	200	ug/L	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U [25.0 U]
Iron	300	ug/L	42.9 B	4,730	26,800	146 B	215 [172]
Lead	25	ug/L	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U [3.00 U]
Magnesium	35,000	ug/L	2,050 B	35,200	27,800	12,700	20,400 [20,100]
Manganese	300	ug/L	15.0 U	44.9	2,580	168	106 [92.8]
Mercury	0.7	ug/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U [0.200 U]
Nickel	100	ug/L	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U [40.0 U]
Potassium	--	ug/L	542 B	5,060	8,800	4,220 B	11,800 [11,600]
Selenium	10	ug/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U [5.00 U]
Silver	50	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U [10.0 U]
Sodium	20,000	ug/L	1,980 B	69,200	814,000	62,500	20,800 [20,000]
Thallium	0.5	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U [10.0 U]
Total Cyanide	200	ug/L	10.0 U	10.0 U	10.0 U	37.0	84.0 [86.0]
Vanadium	--	ug/L	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U [50.0 U]
Zinc	2,000	ug/L	7.00 B	9.90 B	11.1 B	15.2 B	11.5 B [8.00 B]
<b>Wet Chemistry</b>							
Total Cyanide	200	ug/L	NA	NA	NA	NA	NA

**Table 2**  
**Summary of Groundwater Sample Analytical Results (ppb)**  
**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, NY**

Location ID: Date Collected:	NYS Ambient Water Quality Standards and Guidance	Units	FWMW-5 02/09/05	FWMW-6 02/09/05	MW-101RD 02/07/05	MW-102R 04/11/05	MW-103R 02/07/05
<b>VOCs</b>							
1,1,1-Trichloroethane	5	ug/L	5.0 U	5.0 U	20 J	5.0 U [5.0 U]	5.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
1,1,2-Trichloroethane	1	ug/L	3.0 U	3.0 U	15 U	3.0 U [3.0 U]	3.0 U
1,1-Dichloroethane	5	ug/L	5.0 U	5.0 U	28	5.0 U [5.0 U]	4.8 J
1,1-Dichloroethene	5	ug/L	2.0 U	2.0 U	3.2 J	2.0 U [2.0 U]	2.0 U
1,2-Dichloroethane	0.6	ug/L	2.0 U	2.0 U	10 U	2.0 U [2.0 U]	2.0 U
1,2-Dichloropropane	1	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
2-Butanone	--	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	19
2-Hexanone	50	ug/L	5.0 U	5.0 U	25 UJ	5.0 U [5.0 U]	5.0 UJ
4-Methyl-2-Pentanone	--	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Acetone	50	ug/L	5.0 U	5.0 UJ	25 U	5.0 UJ [5.0 UJ]	96
Benzene	0.7	ug/L	1.0 U	1.0 U	5.2	0.80 J [1.3]	28
Bromodichloromethane	50	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.6
Bromoform	50	ug/L	4.0 U	4.0 U	20 U	4.0 U [4.0 U]	4.0 U
Bromomethane	5	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 UJ
Carbon Disulfide	--	ug/L	5.0 U	5.0 UJ	2.0 J	5.0 U [5.0 U]	5.0 U
Carbon Tetrachloride	5	ug/L	2.0 U	2.0 U	10 U	2.0 U [2.0 U]	2.0 U
Chlorobenzene	5	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Chloroethane	5	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Chloroform	7	ug/L	5.0 U	5.0 U	9.6 J	5.0 U [5.0 U]	50
Chloromethane	--	ug/L	5.0 UJ	5.0 UJ	25 U	5.0 U [5.0 U]	5.0 U
cis-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	520	1.0 J [1.4 J]	7.6
cis-1,3-Dichloropropene	0.4	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Dibromochloromethane	50	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Ethylbenzene	5	ug/L	4.0 U	4.0 U	31	4.0 U [4.0 U]	32
Methylene Chloride	5	ug/L	3.0 U	3.0 U	15 U	3.0 U [3.0 U]	3.0 U
Styrene	5	ug/L	5.0 U	5.0 U	3.8 J	5.0 U [5.0 U]	5.0 U
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
Toluene	5	ug/L	5.0 U	5.0 U	23 J	5.0 U [5.0 U]	24
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	5.0 U	5.0 U	25 U	5.0 U [5.0 U]	5.0 U
Trichloroethene	5	ug/L	1.0 U	1.0 U	17	1.0 U [1.0 U]	1.0 U
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	100	5.0 U [5.0 U]	43
Xylene (Total)	5	ug/L	5.0 U	5.0 U	92	5.0 U [5.0 U]	63
<b>BTEX</b>							
Total BTEX	--	ug/L	ND	ND	150 J	0.80 J [1.3]	150
<b>SVOCs</b>							
1,2,4-Trichlorobenzene	5	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
1,2-Dichlorobenzene	3	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
1,3-Dichlorobenzene	3	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
1,4-Dichlorobenzene	3	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2,4,5-Trichlorophenol	1	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2,4,6-Trichlorophenol	1	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2,4-Dichlorophenol	1	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2,4-Dimethylphenol	50	ug/L	10 U	10 U	50 U	10 U [10 U]	1.1 J
2,4-Dinitrophenol	10	ug/L	41 U	41 U	200 U	41 U [40 U]	41 U
2,4-Dinitrotoluene	5	ug/L	2.1 U	2.1 U	10 U	2.1 U [2.0 U]	2.1 U
2,6-Dinitrotoluene	5	ug/L	2.1 U	2.1 U	10 U	2.1 U [2.0 U]	2.1 U
2-Chloronaphthalene	10	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2-Chlorophenol	1	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
2-Methylnaphthalene	--	ug/L	10 U	10 U	51	10 U [10 U]	5.8 J
2-Methylphenol	--	ug/L	10 U	10 U	50 U	10 U [10 U]	0.30 J
2-Nitroaniline	5	ug/L	21 U	21 U	100 U	21 U [20 U]	21 U
2-Nitrophenol	--	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
3,3'-Dichlorobenzidine	5	ug/L	21 U	21 U	100 U	21 U [20 U]	21 U
3-Nitroaniline	5	ug/L	21 U	21 U	100 U	21 U [20 U]	21 U
4,6-Dinitro-2-methylphenol	--	ug/L	41 U	41 U	200 U	41 U [40 U]	41 U
4-Bromophenyl-phenylether	--	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
4-Chloro-3-methylphenol	--	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
4-Chloroaniline	5	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
4-Chlorophenyl-phenylether	--	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
4-Methylphenol	--	ug/L	10 U	10 U	50 U	10 U [10 U]	0.20 J
4-Nitroaniline	5	ug/L	21 U	21 U	100 U	21 U [20 U]	21 U
4-Nitrophenol	--	ug/L	41 U	41 U	200 U	41 U [40 U]	41 U
Acenaphthene	20	ug/L	10 U	1.4 J	47 J	2.6 J [2.6 J]	6.5 J
Acenaphthylene	--	ug/L	10 U	1.1 J	22 J	10 U [10 U]	4.0 J
Anthracene	50	ug/L	10 U	3.2 J	4.8 J	0.30 J [0.20 J]	10 U
Benzo(a)anthracene	0.002	ug/L	1.0 U	4.9	5.0 U	1.0 U [1.0 U]	1.0 U
Benzo(a)pyrene	--	ug/L	1.0 U	4.8	5.0 U	1.0 U [1.0 U]	1.0 U
Benzo(b)fluoranthene	0.002	ug/L	1.0 U	2.7	5.0 U	1.0 U [1.0 U]	1.0 U
Benzo(g,h,i)perylene	--	ug/L	10 U	2.1 J	50 U	10 U [10 U]	10 U
Benzo(k)fluoranthene	0.002	ug/L	1.0 U	4.8	5.0 U	1.0 U [1.0 U]	1.0 U
bis(2-Chloroethoxy)methane	5	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
bis(2-Chloroethyl)ether	1	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U

Table 2  
Summary of Groundwater Sample Analytical Results (ppb)  
Final Engineering Report  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, NY

Location ID: Date Collected:	NYS Ambient Water Quality Standards and Guidance	Units	FWMW-5 02/09/05	FWMW-6 02/09/05	MW-101RD 02/07/05	MW-102R 04/11/05	MW-103R 02/07/05
<b>SVOCs (Continued)</b>							
bis(2-chloroisopropyl)ether	5	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
bis(2-Ethylhexyl)phthalate	5	ug/L	10 U	10 U	50 U	10 U [10 U]	16
Butylbenzylphthalate	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Carbazole	--	ug/L	10 U	1.0 J	27 J	10 U [10 U]	7.2 J
Chrysene	0.002	ug/L	10 U	5.3 J	50 U	10 U [10 U]	10 U
Dibenz(a,h)anthracene	--	ug/L	1.0 UJ	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
Dibenzofuran	--	ug/L	10 U	1.8 J	31 J	0.30 J [0.30 J]	3.4 J
Diethylphthalate	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Dimethylphthalate	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Di-n-butylphthalate	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Di-n-octylphthalate	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Fluoranthene	50	ug/L	10 U	6.9 J	50 U	1.3 J [1.1 J]	0.40 J
Fluorene	50	ug/L	10 U	2.3 J	32 J	0.80 J [0.80 J]	3.4 J
Hexachlorobenzene	0.04	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
Hexachlorobutadiene	0.5	ug/L	2.1 U	2.1 U	10 U	2.1 U [2.0 U]	2.1 U
Hexachlorocyclopentadiene	5	ug/L	10 UJ	10 UJ	50 UJ	10 U [10 U]	10 UJ
Hexachloroethane	5	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	1.0 U	1.8	5.0 U	1.0 U [1.0 U]	1.0 U
Isophorone	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Naphthalene	10	ug/L	10 U	10 U	720	10 U [10 U]	130
Nitrobenzene	0.4	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
N-Nitroso-di-n-propylamine	--	ug/L	1.0 U	1.0 U	5.0 U	1.0 U [1.0 U]	1.0 U
N-Nitrosodiphenylamine	50	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Pentachlorophenol	1	ug/L	41 U	41 U	200 U	41 U [40 U]	41 U
Phenanthrene	50	ug/L	10 U	5.5 J	25 J	1.0 J [0.90 J]	2.7 J
Phenol	1	ug/L	10 U	10 U	50 U	10 U [10 U]	10 U
Pyrene	50	ug/L	10 U	7.3 J	50 U	0.90 J [0.90 J]	0.30 J
<b>PAHs</b>							
Total PAHs	--	ug/L					
<b>CPAHs</b>							
Total CPAHs	--	ug/L	ND	24 J	ND	ND [ND]	ND
<b>Inorganics</b>							
Aluminum	--	ug/L	634	254	200 U	62.6 U [62.6 U]	222
Antimony	3	ug/L	10.0 U	10.0 U	10.0 U	5.80 U [5.80 U]	10.0 U
Arsenic	25	ug/L	5.00 U	4.40 B	5.00 U	3.20 U [3.20 U]	5.00 U
Barium	1,000	ug/L	35.6 B	44.8 B	161 B	203 [200 B]	205
Beryllium	3	ug/L	2.00 U	2.00 U	2.00 U	0.300 U [0.300 U]	2.00 U
Cadmium	5	ug/L	4.00 U	4.00 U	4.00 U	0.400 U [0.400 U]	4.00 U
Calcium	--	ug/L	148,000	157,000	179,000	80,500 [79,300]	292,000
Chromium	50	ug/L	10.0 U	10.0 U	42.8	3.20 B [1.60 U]	59.2
Cobalt	--	ug/L	50.0 U	50.0 U	50.0 U	1.70 U [1.70 U]	50.0 U
Copper	200	ug/L	25.0 U	17.3 B	4.90 B	3.70 U [3.70 U]	9.70 B
Iron	300	ug/L	107 B	742	255	2,400 [2,400]	232
Lead	25	ug/L	3.00 U	3.00 U	3.00 U	2.60 U [2.60 U]	3.00 U
Magnesium	35,000	ug/L	13,000	19,100	3,600 B	16,800 [16,700]	534 B
Manganese	300	ug/L	18.7	118	69.3	88.8 [87.1]	4.70 B
Mercury	0.7	ug/L	0.200 U	0.200 U	0.200 U	0.100 U [0.100 U]	0.200 U
Nickel	100	ug/L	5.60 B	4.60 B	40.0 U	2.40 U [2.40 U]	40.0 U
Potassium	--	ug/L	2,190 B	6,020	90,300	4,240 B [3,830 B]	69,500
Selenium	10	ug/L	5.00 U	15.0 U	5.00 U	4.20 U [4.20 U]	5.00 U
Silver	50	ug/L	10.0 U	10.0 U	10.0 U	1.40 U [1.40 U]	10.0 U
Sodium	20,000	ug/L	11,400	24,700	272,000	82,800 [78,400]	51,400
Thallium	0.5	ug/L	10.0 U	10.0 U	10.0 U	4.70 U [4.70 U]	10.0 U
Total Cyanide	200	ug/L	16.0	270	10.0 U	NA	10.0 U
Vanadium	--	ug/L	50.0 U	50.0 U	4.90 B	2.00 U [2.00 U]	2.90 B
Zinc	2,000	ug/L	43.4	95.6	15.4 B	5.80 U [5.80 U]	10.1 B
<b>Wet Chemistry</b>							
Total Cyanide	200	ug/L	NA	NA	NA	10 U [10 U]	NA

**Table 3**  
**Solid Waste Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	TCLP Regulatory Limits	Units	WC-1 06/23/09	WC-2 06/23/09
<b>PCBs</b>				
Aroclor 1016	--	mg/kg	0.020 U	0.021 U
Aroclor 1221	--	mg/kg	0.020 U	0.021 U
Aroclor 1232	--	mg/kg	0.020 U	0.021 U
Aroclor 1242	--	mg/kg	0.020 U	0.021 U
Aroclor 1248	--	mg/kg	0.020 U	0.021 U
Aroclor 1254	--	mg/kg	0.020 U	0.021 U
Aroclor 1260	--	mg/kg	0.020 U	0.021 U
<b>VOCs-TCLP</b>				
1,1-Dichloroethene	0.7	mg/L	0.01 UD07	0.01 UD07
1,2-Dichloroethane	0.5	mg/L	0.01 UD07	0.01 UD07
2-Butanone	200	mg/L	0.05 UD07	0.05 UD07
Benzene	0.5	mg/L	0.01 UD07	0.01 UD07
Carbon Tetrachloride	0.5	mg/L	0.01 UD07	0.01 UD07
Chlorobenzene	100	mg/L	0.01 UD07	0.01 UD07
Chloroform	6	mg/L	0.01 UD07	0.01 UD07
Tetrachloroethene	0.7	mg/L	0.01 UD07	0.01 UD07
Trichloroethene	0.5	mg/L	0.01 UD07	0.01 UD07
Vinyl Chloride	0.2	mg/L	0.01 UD07	0.01 UD07
<b>SVOCs-TCLP</b>				
1,4-Dichlorobenzene	7.5	mg/L	0.04 U	0.04 U
2,4,5-Trichloropheno	400	mg/L	0.02 U	0.02 U
2,4,6-Trichloropheno	2	mg/L	0.02 U	0.02 U
2,4-Dinitrotoluene	0.13	mg/L	0.02 U	0.02 U
2-Methylphenol	--	mg/L	0.02 U	0.02 U
Hexachlorobenzene	0.13	mg/L	0.02 U	0.02 U
Hexachlorobutadiene	0.5	mg/L	0.02 U	0.02 U
Hexachloroethane	3	mg/L	0.02 U	0.02 U
Nitrobenzene	2	mg/L	0.02 U	0.02 U
Pentachlorophenol	100	mg/L	0.04 U	0.04 U
Pyridine	5	mg/L	0.1 U	0.1 U
<b>Inorganics-TCLP</b>				
Arsenic	5	mg/L	0.01 U	0.05 UD02
Barium	100	mg/L	0.797 B1B	0.911 BTD02E
Cadmium	1	mg/L	0.0137	0.0071 BTD02
Chromium	5	mg/L	0.004 U	0.057 D02
Lead	5	mg/L	0.0304	1.66 D02
Mercury	0.2	mg/L	0.0002 U	0.0002 U
Selenium	1	mg/L	0.015 U	0.075 UD02
Silver	5	mg/L	0.003 U	0.015 UD02
<b>Miscellaneous</b>				
Flashpoint	--	°F	>176	>176
H <sub>2</sub> S	--	mg/kg	10 U	10 U
HCN	--	mg/kg	10 U	10 U
pH	--	SU	7.64	12.4

**Table 3**  
**Solid Waste Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP**  
**Little Falls, New York**

**Notes:**

1. Samples were collected by ARCADIS.
2. Laboratory analysis was performed by TestAmerica Laboratories, Inc. (TestAmerica) of Amherst, New York.
3. PCBs = Polychlorinated biphenyls.
4. VOCs = Volatile organic compounds.
5. SVOCs = Semi-volatile organic compounds.
6. TCLP = Toxicity Characteristic Leaching Procedure.
7. H<sub>2</sub>S = Hydrogen Sulfide.
8. HCN = Hydrogen Cyanide.
9. ppm = parts per million which is equivalent to milligrams per kilogram (mg/kg) for non -TCLP parameters and milligrams per liter (mg/L) for TCLP parameters.
10. B = Constituent was found in the sample as well as its associated blank.
11. B1 = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
12. BT = Analyte detected in the TCLP Extractor Blank. Analyte at least five times less than the TCLP Regulatory limit.
13. J = Estimated result. Result is less than the laboratory detection limit.
14. D02 = Dilution required to sample matrix effects.
15. D07 = Dilution required due to the nature of the TCLP matrix.
16. U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
17. UL4 = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
18. C01 = To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.
19. -- = No TCLP limit.
20. > = Result is greater than the indicated value.



**Table 4**  
**Wastewater Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	Units	WC-3 07/13/09
<b>PCBs</b>		
Aroclor 1016	mg/L	0.00047 UA-01
Aroclor 1016 [2C]	mg/L	0.00047 UA-01
Aroclor 1016 Peak1	mg/L	0.00047 UA-01
Aroclor 1016 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1016 Peak2	mg/L	0.00047 UA-01
Aroclor 1016 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1016 Peak3	mg/L	0.00047 UA-01
Aroclor 1016 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1016 Peak4	mg/L	0.00047 UA-01
Aroclor 1016 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1221	mg/L	0.00047 UA-01
Aroclor 1221 [2C]	mg/L	0.00047 UA-01
Aroclor 1221 Peak1	mg/L	0.00047 UA-01
Aroclor 1221 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1221 Peak2	mg/L	0.00047 UA-01
Aroclor 1221 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1221 Peak3	mg/L	0.00047 UA-01
Aroclor 1221 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1221 Peak4	mg/L	0.00047 UA-01
Aroclor 1221 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1232	mg/L	0.00047 UA-01
Aroclor 1232 [2C]	mg/L	0.00047 UA-01
Aroclor 1232 Peak1	mg/L	0.00047 UA-01
Aroclor 1232 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1232 Peak2	mg/L	0.00047 UA-01
Aroclor 1232 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1232 Peak3	mg/L	0.00047 UA-01
Aroclor 1232 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1232 Peak4	mg/L	0.00047 UA-01
Aroclor 1232 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1242	mg/L	0.00047 UA-01
Aroclor 1242 [2C]	mg/L	0.00047 UA-01
Aroclor 1242 Peak1	mg/L	0.00047 UA-01
Aroclor 1242 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1242 Peak2	mg/L	0.00047 UA-01
Aroclor 1242 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1242 Peak3	mg/L	0.00047 UA-01
Aroclor 1242 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1242 Peak4	mg/L	0.00047 UA-01
Aroclor 1242 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1248	mg/L	0.00047 UA-01
Aroclor 1248 [2C]	mg/L	0.00047 UA-01
Aroclor 1248 Peak1	mg/L	0.00047 UA-01
Aroclor 1248 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1248 Peak2	mg/L	0.00047 UA-01
Aroclor 1248 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1248 Peak3	mg/L	0.00047 UA-01
Aroclor 1248 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1248 Peak4	mg/L	0.00047 UA-01
Aroclor 1248 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1254	mg/L	0.00047 UA-01
Aroclor 1254 [2C]	mg/L	0.00047 UA-01
Aroclor 1254 Peak1	mg/L	0.00047 UA-01
Aroclor 1254 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1254 Peak2	mg/L	0.00047 UA-01
Aroclor 1254 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1254 Peak3	mg/L	0.00047 UA-01

**Table 4**  
**Wastewater Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	Units	WC-3 07/13/09
Aroclor 1254 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1254 Peak4	mg/L	0.00047 UA-01
Aroclor 1254 Peak4 [2C]	mg/L	0.00047 UA-01
Aroclor 1260	mg/L	0.00047 UA-01
Aroclor 1260 [2C]	mg/L	0.00047 UA-01
Aroclor 1260 Peak1	mg/L	0.00047 UA-01
Aroclor 1260 Peak1 [2C]	mg/L	0.00047 UA-01
Aroclor 1260 Peak2	mg/L	0.00047 UA-01
Aroclor 1260 Peak2 [2C]	mg/L	0.00047 UA-01
Aroclor 1260 Peak3	mg/L	0.00047 UA-01
Aroclor 1260 Peak3 [2C]	mg/L	0.00047 UA-01
Aroclor 1260 Peak4	mg/L	0.00047 UA-01
Aroclor 1260 Peak4 [2C]	mg/L	0.00047 UA-01
<b>VOCs</b>		
1,1,1-Trichloroethane	mg/L	0.0010 U
1,1,2,2-Tetrachloroethane	mg/L	0.0010 U
1,1,2-Trichloroethane	mg/L	0.0010 U
1,1-Dichloroethane	mg/L	0.0010 U
1,1-Dichloroethene	mg/L	0.0010 U
1,2,4-Trichlorobenzene	mg/L	0.0010 U
1,2-Dibromo-3-chloropropane	mg/L	0.0010 U
1,2-Dibromoethane	mg/L	0.0010 U
1,2-Dichlorobenzene	mg/L	0.0010 U
1,2-Dichloroethane	mg/L	0.0010 U
1,2-Dichloroethene (total)	mg/L	0.0020 U
1,2-Dichloropropane	mg/L	0.0010 U
1,3-Dichlorobenzene	mg/L	0.0010 U
1,4-Dichlorobenzene	mg/L	0.0010 U
1,4-Dichlorobenzene-d4	mg/L	<b>0.025</b>
1,4-Difluorobenzene	mg/L	<b>0.025</b>
2-Butanone	mg/L	<b>0.011</b>
2-Hexanone	mg/L	0.0050 U
4-Methyl-2-Pentanone	mg/L	0.0050 U
Acetone	mg/L	<b>0.081</b>
Benzene	mg/L	<b>0.055</b>
Bromodichloromethane	mg/L	0.0010 U
Bromoform	mg/L	0.0010 U
Bromomethane	mg/L	0.0010 U
Carbon Disulfide	mg/L	0.0010 U
Carbon Tetrachloride	mg/L	0.0010 U
Chlorobenzene	mg/L	0.0010 U
Chlorobenzene-d5	mg/L	<b>0.025</b>
Chloroethane	mg/L	0.0010 U
Chloroform	mg/L	<b>0.0041</b>
Chloromethane	mg/L	0.0010 U
cis-1,2-Dichloroethene	mg/L	0.0010 U
cis-1,3-Dichloropropene	mg/L	0.0010 U
Cyclohexane	mg/L	0.0010 U
Dibromochloromethane	mg/L	0.0010 U
Dichlorodifluoromethane	mg/L	0.0010 U
Ethylbenzene	mg/L	<b>0.010</b>
Freon TF	mg/L	0.0010 U
Isopropylbenzene	mg/L	<b>0.0018</b>
Methyl Acetate	mg/L	0.0010 U
Methyl tert-Butyl Ether	mg/L	0.0010 U
Methylcyclohexane	mg/L	0.0010 U
Methylene Chloride	mg/L	0.0010 U
Styrene	mg/L	<b>0.021</b>

**Table 4**  
**Wastewater Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	Units	WC-3 07/13/09
Tetrachloroethene	mg/L	0.0010 U
Toluene	mg/L	<b>0.076</b>
trans-1,2-Dichloroethene	mg/L	0.0010 U
trans-1,3-Dichloropropene	mg/L	0.0010 U
Trichloroethene	mg/L	0.0010 U
Trichlorofluoromethane	mg/L	0.0010 U
Vinyl acetate	mg/L	0.0050 U
Vinyl Chloride	mg/L	0.0010 U
Xylene (Total)	mg/L	<b>0.10</b>
<b>SVOCs</b>		
1,2,4,5-Tetrachlorobenzene	mg/L	0.0048 U
1,2,4-Trichlorobenzene	mg/L	0.0095 U
1,2-Dichlorobenzene	mg/L	0.0095 U
1,3,5-Trinitrobenzene	mg/L	0.0095 U
1,3-Dichlorobenzene	mg/L	0.0095 U
1,3-Dinitrobenzene	mg/L	0.019 U
1,4-Dichlorobenzene	mg/L	0.0095 U
1,4-Dinitrobenzene	mg/L	0.0095 U
1,4-Dioxane	mg/L	0.0095 U
1,4-Naphthoquinone	mg/L	0.0095 U
1-Naphthylamine	mg/L	0.0095 U
2,3,4,6-Tetrachlorophenol	mg/L	0.0048 U
2,4,5-Trichlorophenol	mg/L	0.0048 U
2,4,6-Trichlorophenol	mg/L	0.0048 U
2,4-Dichlorophenol	mg/L	0.0048 U
2,4-Dimethylphenol	mg/L	<b>0.013</b>
2,4-Dinitrophenol	mg/L	0.0095 U
2,4-Dinitrotoluene	mg/L	0.0048 U
2,6-Dichlorophenol	mg/L	0.0095 U
2,6-Dichloropyridine	mg/L	0.0095 U
2,6-Dinitrotoluene	mg/L	0.0048 U
2-Acetylaminofluorene	mg/L	0.0095 U
2-Chloronaphthalene	mg/L	0.0048 U
2-Chlorophenol	mg/L	0.0048 U
2-Chloropyridine	mg/L	0.0095 U
2-Methylnaphthalene	mg/L	<b>0.11</b>
2-Methylphenol	mg/L	<b>0.0024 J</b>
2-Naphthylamine	mg/L	0.0095 U
2-Nitroaniline	mg/L	0.0095 U
2-Nitrophenol	mg/L	0.0048 U
2-Picoline	mg/L	0.076 U
2-Toluidine	mg/L	0.0095 U
3 & 4 Methylphenol	mg/L	0.0095 U
3,3'-Dichlorobenzidine	mg/L	0.0048 U
3,3'-Dimethylbenzidine	mg/L	0.038 U
3-Chloropyridine	mg/L	0.0095 U
3-Methylcholanthrene	mg/L	0.0095 U
3-Nitroaniline	mg/L	0.0095 U
4,6-Dinitro-2-methylphenol	mg/L	0.0095 U
4-Aminobiphenyl	mg/L	0.0095 U
4-Bromophenyl-phenylether	mg/L	0.0048 U
4-Chloro-3-methylphenol	mg/L	0.0048 U
4-Chloroaniline	mg/L	0.0048 U
4-Chlorophenyl-phenylether	mg/L	0.0048 U
4-Chloropyridine	mg/L	0.0095 U
4-Nitroaniline	mg/L	0.0095 U
4-Nitrophenol	mg/L	0.0095 U
4-Nitroquinoline-1-oxide	mg/L	0.0095 U

**Table 4**  
**Wastewater Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	Units	WC-3 07/13/09
7,12-Dimethylbenz[a]anthracene	mg/L	0.0095 U
a,a-Dimethylphenethylamine	mg/L	0.095 U
Acenaphthene	mg/L	<b>0.014</b>
Acenaphthylene	mg/L	<b>0.046</b>
Acetophenone	mg/L	<b>0.0059</b>
Alpha-Terpineol	mg/L	0.0095 U
Aniline	mg/L	0.0095 U
Anthracene	mg/L	<b>0.0090</b>
Aramite	mg/L	0.019 U
Atrazine	mg/L	0.0048 U
Benzaldehyde	mg/L	0.0048 U
Benzidine	mg/L	0.076 U
Benzo(a)anthracene	mg/L	<b>0.0016 J</b>
Benzo(a)pyrene	mg/L	<b>0.00066 J</b>
Benzo(b)fluoranthene	mg/L	<b>0.0011 J</b>
Benzo(g,h,i)perylene	mg/L	0.0048 U
Benzo(k)fluoranthene	mg/L	0.0048 U
Biphenyl	mg/L	<b>0.0082</b>
bis(2-Chloroethoxy)methane	mg/L	0.0048 U
bis(2-Chloroethyl)ether	mg/L	0.0048 U
bis(2-chloroisopropyl)ether	mg/L	0.0038 U
bis(2-Ethylhexyl)phthalate	mg/L	0.0048 U
Butylbenzylphthalate	mg/L	0.0048 U
Caprolactam	mg/L	0.0048 U
Carbazole	mg/L	<b>0.038</b>
Chlorobenzilate	mg/L	0.019 U
Chrysene	mg/L	<b>0.0014 J</b>
Cresol(s)	mg/L	<b>0.0074 J</b>
Diallate	mg/L	0.0095 U
Dibenz(a,h)anthracene	mg/L	0.0048 U
Dibenzo[a,e]pyrene	mg/L	0.0095 U
Dibenzofuran	mg/L	<b>0.020</b>
Diethylphthalate	mg/L	0.0048 U
Dimethoate	mg/L	0.0095 U
Dimethylphthalate	mg/L	0.0048 U
Di-n-butylphthalate	mg/L	0.0048 U
Di-n-octylphthalate	mg/L	0.0048 U
Diphenylamine	mg/L	0.0095 U
Disulfoton	mg/L	0.0095 U
Ethyl Methanesulfonate	mg/L	0.0095 U
Famphur	mg/L	0.038 U
Fluoranthene	mg/L	<b>0.0075</b>
Fluorene	mg/L	<b>0.027</b>
Hexachlorobenzene	mg/L	0.0048 U
Hexachlorobutadiene	mg/L	0.0048 U
Hexachlorocyclopentadiene	mg/L	0.0048 U
Hexachloroethane	mg/L	0.0048 U
Hexachlorophene	mg/L	0.30 U
Hexachloropropene	mg/L	0.0095 U
Indeno(1,2,3-cd)pyrene	mg/L	<b>0.00026 J</b>
Isodrin	mg/L	0.0095 U
Isophorone	mg/L	0.0048 U
Isosafrole	mg/L	0.0095 U
Kepone	mg/L	0.048 U
Methapyrilene	mg/L	0.048 U
Methyl Methanesulfonate	mg/L	0.0095 U
N,N-Dimethyl Formamide	mg/L	0.019 U
Naphthalene	mg/L	<b>0.43</b>

**Table 4**  
**Wastewater Characterization Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	Units	WC-3 07/13/09
Nitrobenzene	mg/L	0.0048 U
N-Nitro-o-toluidine	mg/L	0.0095 U
N-Nitrosodiethylamine	mg/L	0.0095 U
N-Nitrosodi-n-butylamine	mg/L	0.0095 U
N-Nitroso-di-n-propylamine	mg/L	0.0048 U
N-Nitrosodiphenylamine	mg/L	0.0048 U
N-Nitrosomethylethylamine	mg/L	0.0095 U
N-Nitrosomorpholine	mg/L	0.0095 U
N-Nitrosopiperidine	mg/L	0.0095 U
N-Nitrosopyrrolidine	mg/L	0.0095 U
O,O,O-Triethyl phosphorothioate	mg/L	0.0095 U
Parathion-ethyl	mg/L	0.0095 U
Parathion-methyl	mg/L	0.0095 U
p-Dimethylamino azobenzene	mg/L	0.0095 U
Pentachlorobenzene	mg/L	0.0095 U
Pentachloroethane	mg/L	0.0095 U
Pentachloronitrobenzene	mg/L	0.0095 U
Pentachlorophenol	mg/L	0.0095 U
p-Fluoroaniline	mg/L	0.0095 U
Phenacetin	mg/L	0.0095 U
Phenanthrene	mg/L	<b>0.050</b>
Phenol	mg/L	<b>0.0053</b>
Phorate	mg/L	0.0095 U
Phthalic anhydride	mg/L	0.48 U
p-Phenylene diamine	mg/L	0.76 U
Pronamide	mg/L	0.0095 U
Pyrene	mg/L	<b>0.0071</b>
Pyridine	mg/L	0.024 U
Quinoline	mg/L	0.0095 U
Safrole	mg/L	0.0095 U
Sulfotepp	mg/L	0.0095 U
Tetraethyl lead	mg/L	0.0095 U
Thionazin	mg/L	0.0095 U
Tributyl phosphate	mg/L	0.0095 U
Tricresylphosphate	mg/L	0.0095 U
1,2-Diphenylhydrazine	mg/L	0.0095 U
Alachlor	mg/L	0.0095 U
Benzoic acid	mg/L	0.14 U
Benzyl alcohol	mg/L	0.019 U
Dinoseb	mg/L	0.0095 U
N-Nitrosodimethylamine	mg/L	0.0095 U
Simazine	mg/L	0.0095 U
<b>Inorganics</b>		
Aluminum	mg/L	<b>0.538 B</b>
Antimony	mg/L	0.0200 U
Arsenic	mg/L	0.0100 U
Barium	mg/L	<b>0.218</b>
Beryllium	mg/L	<b>0.000600 JB</b>
Cadmium	mg/L	<b>0.000300 J</b>
Calcium	mg/L	<b>240 B</b>
Chromium	mg/L	<b>0.0885</b>
Cobalt	mg/L	<b>0.000700 J</b>
Copper	mg/L	<b>0.0279</b>
Iron	mg/L	<b>0.0810</b>
Lead	mg/L	<b>0.00450 J</b>
Magnesium	mg/L	0.200 U
Manganese	mg/L	<b>0.000400 JB</b>
Mercury	mg/L	0.000200 U

**Table 5**  
**Summary of Backfill Material Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	NY TAGM Rec Soil Cleanup Objectives	Units	FM-01 06/03/09	FM-02 06/03/09	FM-03 06/18/09
<b>PCBs</b>					
Aroclor 1016	--	mg/kg	0.017 U	0.018 U	NA
Aroclor 1221	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
Aroclor 1232	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
Aroclor 1242	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
Aroclor 1248	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
Aroclor 1254	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
Aroclor 1260	--	mg/kg	0.017 U	0.018 U	0.017 UC-01
<b>VOCs</b>					
1,1,1-Trichloroethane	0.8	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,1,2,2-Tetrachloroethane	0.6	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,1,2-Trichloroethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,1-Dichloroethane	0.2	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,1-Dichloroethene	0.4	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2,4-Trichlorobenzene	3.4	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2-Dibromo-3-chloropropane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2-Dibromoethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2-Dichlorobenzene	7.9	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2-Dichloroethane	0.1	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,2-Dichloroethene (total)	--	mg/kg	NA	NA	0.0098 U
1,2-Dichloropropane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,3-Dichlorobenzene	1.6	mg/kg	0.0049 U	0.0051 U	0.0049 U
1,4-Dichlorobenzene	8.5	mg/kg	0.0049 U	0.0051 U	0.0049 U
2-Butanone	0.3	mg/kg	0.025 U	0.026 U	0.025 U
2-Hexanone	--	mg/kg	0.025 U	0.026 U	0.025 U
4-Methyl-2-Pentanone	1	mg/kg	0.025 U	0.026 U	0.025 U
Acetone	0.2	mg/kg	0.025 U	<b>0.0094 J</b>	0.025 U
Benzene	0.06	mg/kg	0.0049 U	0.0051 U	0.0049 U
Bromodichloromethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Bromoform	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Bromomethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Carbon Disulfide	2.7	mg/kg	0.0049 U	0.0051 U	0.0049 U
Carbon Tetrachloride	0.6	mg/kg	0.0049 U	0.0051 U	0.0049 U
Chlorobenzene	1.7	mg/kg	0.0049 U	0.0051 U	0.0049 U
Chloroethane	1.9	mg/kg	0.0049 U	0.0051 U	0.0049 U
Chloroform	0.3	mg/kg	0.0049 U	0.0051 U	0.0049 U
Chloromethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
cis-1,2-Dichloroethene	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
cis-1,3-Dichloropropene	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Cyclohexane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Dibromochloromethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Dichlorodifluoromethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U

**Table 5**  
**Summary of Backfill Material Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	NY TAGM Rec Soil Cleanup Objectives	Units	FM-01 06/03/09	FM-02 06/03/09	FM-03 06/18/09
<b>VOCs (Continued)</b>					
Ethylbenzene	5.5	mg/kg	0.0049 U	0.0051 U	0.0049 U
Freon TF	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Isopropylbenzene	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Methyl Acetate	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Methyl tert-Butyl Ether	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Methylcyclohexane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Methylene Chloride	0.1	mg/kg	<b>0.020</b>	<b>0.028</b>	0.0049 U
Styrene	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Tetrachloroethene	1.4	mg/kg	0.0049 U	0.0051 U	0.0049 U
Toluene	1.5	mg/kg	0.0049 U	0.0051 U	0.0049 U
trans-1,2-Dichloroethene	0.3	mg/kg	0.0049 U	0.0051 U	0.0049 U
trans-1,3-Dichloropropene	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Trichloroethene	0.7	mg/kg	0.0049 U	0.0051 U	0.0049 U
Trichlorofluoromethane	--	mg/kg	0.0049 U	0.0051 U	0.0049 U
Vinyl acetate	--	mg/kg	NA	NA	0.025 U
Vinyl Chloride	0.2	mg/kg	0.0099 U	0.010 U	0.0098 U
Xylene (Total)	1.2	mg/kg	0.0099 U	0.010 U	0.0098 U
<b>SVOCs</b>					
2,4,5-Trichlorophenol	0.1	mg/kg	0.17 U	0.18 U	0.18 U
2,4,6-Trichlorophenol	--	mg/kg	0.17 U	0.18 U	0.18 U
2,4-Dichlorophenol	0.4	mg/kg	0.17 U	0.18 U	0.18 U
2,4-Dimethylphenol	--	mg/kg	0.17 U	0.18 U	0.18 U
2,4-Dinitrophenol	0.2	mg/kg	0.33 U	0.35 U	0.35 U
2,4-Dinitrotoluene	--	mg/kg	0.17 U	0.18 U	0.18 U
2,6-Dinitrotoluene	1	mg/kg	0.17 U	0.18 U	0.18 U
2-Chloronaphthalene	--	mg/kg	0.17 U	0.18 U	0.18 U
2-Chlorophenol	0.8	mg/kg	0.17 U	0.18 U	0.18 U
2-Methylnaphthalene	36.4	mg/kg	0.17 U	0.18 U	0.18 U
2-Methylphenol	0.1	mg/kg	0.17 U	0.18 U	0.18 U
2-Nitroaniline	0.43	mg/kg	0.33 U	0.35 U	0.35 U
2-Nitrophenol	0.33	mg/kg	0.17 U	0.18 U	0.18 U
3,3'-Dichlorobenzidine	--	mg/kg	0.17 U	0.18 U	0.18 U
3-Nitroaniline	0.5	mg/kg	0.33 U	0.35 U	0.35 U
4,6-Dinitro-2-methylphenol	--	mg/kg	0.33 U	0.35 U	0.35 U
4-Bromophenyl-phenylether	--	mg/kg	0.17 U	0.18 U	0.18 U
4-Chloro-3-methylphenol	0.24	mg/kg	0.17 U	0.18 U	0.18 U
4-Chloroaniline	0.22	mg/kg	0.17 U	0.18 U	0.18 U
4-Chlorophenyl-phenylether	--	mg/kg	0.17 U	0.18 U	0.18 U
4-Methylphenol	0.9	mg/kg	0.33 U	0.35 U	0.35 U
4-Nitroaniline	--	mg/kg	0.33 U	0.35 U	0.35 U
4-Nitrophenol	0.1	mg/kg	0.33 U	0.35 U	0.35 U



**Table 5**  
**Summary of Backfill Material Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	NY TAGM Rec Soil Cleanup Objectives	Units	FM-01 06/03/09	FM-02 06/03/09	FM-03 06/18/09
<b>SVOCs (Continued)</b>					
Acenaphthene	50	mg/kg	0.17 U	0.18 U	0.18 U
Acenaphthylene	41	mg/kg	0.17 U	0.18 U	0.18 U
Acetophenone	--	mg/kg	0.17 U	0.18 U	0.18 UL4
Anthracene	50	mg/kg	0.17 U	0.18 U	0.18 U
Atrazine	--	mg/kg	0.17 U	0.18 U	0.18 U
Benzaldehyde	--	mg/kg	0.17 U	0.18 U	0.18 U
Benzo(a)anthracene	0.224	mg/kg	0.17 U	0.18 U	0.18 U
Benzo(a)pyrene	0.061	mg/kg	0.17 U	0.18 U	0.18 U
Benzo(b)fluoranthene	1.1	mg/kg	0.17 U	0.18 U	0.18 U
Benzo(g,h,i)perylene	50	mg/kg	<b>0.011 J</b>	0.18 U	0.18 U
Benzo(k)fluoranthene	1.1	mg/kg	<b>0.0067 J</b>	0.18 U	0.18 U
Biphenyl	--	mg/kg	0.17 U	0.18 U	0.18 U
bis(2-Chloroethoxy)methane	--	mg/kg	0.17 U	0.18 U	0.18 UL4
bis(2-Chloroethyl)ether	--	mg/kg	0.17 U	0.18 U	0.18 U
bis(2-chloroisopropyl)ether	--	mg/kg	0.17 U	0.18 U	0.18 U
bis(2-Ethylhexyl)phthalate	50	mg/kg	<b>0.10 JB</b>	<b>0.10 JB</b>	0.18 U
Butylbenzylphthalate	50	mg/kg	0.17 U	0.18 U	0.18 U
Caprolactam	--	mg/kg	0.17 U	0.18 U	0.18 U
Carbazole	--	mg/kg	0.17 U	0.18 U	0.18 U
Chrysene	0.4	mg/kg	0.17 U	0.18 U	0.18 U
Dibenz(a,h)anthracene	0.014	mg/kg	0.17 U	0.18 U	0.18 U
Dibenzofuran	6.2	mg/kg	0.17 U	0.18 U	0.18 U
Diethylphthalate	7.1	mg/kg	0.17 U	0.18 U	0.18 U
Dimethylphthalate	2	mg/kg	0.17 U	0.18 U	0.18 U
Di-n-butylphthalate	8.1	mg/kg	0.17 U	0.18 U	0.18 U
Di-n-octylphthalate	50	mg/kg	0.17 U	0.18 U	0.18 U
Fluoranthene	50	mg/kg	0.17 U	0.18 U	0.18 U
Fluorene	50	mg/kg	0.17 U	0.18 U	0.18 U
Hexachlorobenzene	0.41	mg/kg	0.17 U	0.18 U	0.18 U
Hexachlorobutadiene	--	mg/kg	0.17 U	0.18 U	0.18 U
Hexachlorocyclopentadiene	--	mg/kg	0.17 U	0.18 U	0.18 U
Hexachloroethane	--	mg/kg	0.17 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	3.2	mg/kg	<b>0.0081 J</b>	0.18 U	0.18 U
Isophorone	4.4	mg/kg	0.17 U	0.18 U	0.18 U
Naphthalene	13	mg/kg	0.17 U	0.18 U	0.18 U
Nitrobenzene	0.2	mg/kg	0.17 U	0.18 U	0.18 U
N-Nitroso-di-n-propylamine	--	mg/kg	0.17 U	0.18 U	0.18 U
N-Nitrosodiphenylamine	--	mg/kg	0.17 UL	0.18 UL	0.18 U
Pentachlorophenol	1	mg/kg	0.33 U	0.35 U	0.35 U
Phenanthrene	50	mg/kg	0.17 U	0.18 U	<b>0.0074 J</b>
Phenol	0.03	mg/kg	0.17 U	0.18 U	0.18 U



**Table 5**  
**Summary of Backfill Material Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

Location ID: Date Collected:	NY TAGM Rec Soil Cleanup Objectives	Units	FM-01 06/03/09	FM-02 06/03/09	FM-03 06/18/09
<b>SVOCs (Continued)</b>					
Pyrene	50	mg/kg	0.17 U	0.18 U	0.18 U
<b>Organochlorine Pesticides</b>					
4,4'-DDD	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
4,4'-DDE	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
4,4'-DDT	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Aldrin	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
alpha-BHC	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
beta-BHC	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Chlordane	--	mg/kg	0.017 U	0.018 U	0.017 U
delta-BHC	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Dieldrin	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endosulfan I	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endosulfan II	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endosulfan sulfate	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endrin	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endrin aldehyde	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Endrin ketone	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
gamma-BHC (Lindane)	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Heptachlor	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Heptachlor epoxide	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Methoxychlor	--	mg/kg	0.0017 U	0.0018 U	0.0017 U
Toxaphene	--	mg/kg	0.017 U	0.018 U	0.017 U
<b>Inorganics</b>					
Arsenic	7.5	mg/kg	10.7 UD02	<b>4.90</b>	<b>6.40</b>
Barium	300	mg/kg	15.6 D02	<b>32.1</b>	<b>9.03</b>
Cadmium	1	mg/kg	1.07 UD02	0.235 U	0.204 U
Chromium	10	mg/kg	2.67 UD02	<b>7.22</b>	<b>1.52</b>
Lead	--	mg/kg	<b>1.55</b>	<b>0.527</b>	<b>9.08 D02</b>
Mercury	0.1	mg/kg	0.0202 U	0.0219 U	0.0212 U
Selenium	2	mg/kg	21.3 UD02	4.69 U	4.08 U
Silver	--	mg/kg	2.67 UD02	0.586 U	0.510 U
Total Cyanide	--	mg/kg	0.884 U	0.986 U	0.926 U

**Table 5**  
**Summary of Backfill Material Analytical Results (ppm)**

**Final Engineering Report**  
**Little Falls (Mill Street) Non-Owned Former MGP Site**  
**Little Falls, New York**

**Notes:**

1. Samples were collected by ARCADIS.
2. Laboratory analysis was performed by TestAmerica Laboratories, Inc. (TestAmerica) of Amherst, New York.
3. PCBs = Polychlorinated biphenyls.
4. VOCs = Volatile organic compounds.
5. SVOCs = Semi-volatile organic compounds.
6. NA = Not analyzed.
7. Concentrations reported in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm).
8. B = Constituent was found in the sample as well as its associated blank.
9. J = Estimated result. Result is less than the laboratory detection limit.
10. D02 = Dilution required to sample matrix effects.
11. U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
12. UL4 = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
13. C01 = To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.
14. SCOs = Soil cleanup objectives.
15. NY TAGM Recommended SCOs are from the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) titled "Determination of Soil Cleanup Objectives and Cleanup Levels," HWR-94-4046 (TAGM 4046) dated January 24, 1994.
16. Bold indicates detected compounds.
17. -- = No TAGM 4046 Soil Guidance Value listed.

Table 6

National Grid  
 Little Falls (Mill Street) Non-Owned Former MGP Site  
 Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
B-MW-3												
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Benzene	1	ug/L	5.0 U	1.0 U [1.0 U]	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0U	1.0U
Chloroform	7	ug/L	23	23 [22]	4.8	4.7	NS	17	27	27.7	25.1	22.5
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Toluene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	2.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Xylene (Total)	5	ug/L	5.0 U	2.0 U [2.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	3.0 U	3.0 U	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	2.2 J	2.3 U	26 U	1.0 U	1.0 U	1.0U
Anthracene	50	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	3.6	2.3 U	26 U	1.0 U	1.0 U	1.0U
Benzo(a)anthracene	0.002	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	13	2.3 U	26 U	1.0 U	1.0 U	1.0U
Benzo(a)pyrene	NA	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	12	2.3 U	26 U	1.0 U	1.0 U	1.0U
Benzo(b)fluoranthene	0.002	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	10	2.3 U	26 U	1.0 U	1.0 U	1.0U
Benzo(g,h,i)perylene	NA	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	7.4	2.3 U	26 U	1.0 U	1.0 U	1.0U
Benzo(k)fluoranthene	0.002	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	9.7	2.3 U	26 U	1.0 U	1.0 U	1.0U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	5.3 U	NA	2.3 U	26 U	1.0 U	1.0 U	1.0U
Carbazole	NA	ug/L	5.0 U	NA	NA	NA	NA	2.3 U	26 U	1.0 U	1.0 U	1.0U
Chrysene	0.002	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	13	2.3 U	26 U	1.0 U	1.0 U	1.0U
Dibenz(a,h)anthracene	NA	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	1.4 J	2.3 U	26 U	1.0 U	1.0 U	1.0U
Dibenzofuran	NA	ug/L	5.0 U	9.6 U [9.7 U]	5.0 U	2.1 U	NA	2.3 U	53 U	1.0 U	1.0 U	1.0U
Fluoranthene	50	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	27	2.3 U	26 U	1.0 U	1.0 U	1.0U
Fluorene	50	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	1.2 J	2.3 U	26 U	1.0 U	1.0 U	1.0U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	6.6	2.3 U	26 U	1.0 U	1.0 U	1.0U
Naphthalene	10	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	0.38 J	0.90 J	26 U	1.0 U	1.0 U	1.0U
Phenanthrene	50	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	15	0.27 J	26 U	1.0 U	1.0 U	1.0U
Pyrene	50	ug/L	5.0 U	4.8 U [4.9 U]	5.0 U	2.1 U	25	2.3 U	26 U	1.0 U	1.0 U	1.0U
<b>Metals</b>												
Aluminum	NA	ug/L	200 U	200 UB [200 UB]	200 U	200 U	NS	27.5 B	200 U	50.0U	50.0U	50.0U
Barium	1,000	ug/L	9.50 J	11.0 [10.9]	50.0 U	9.00 B	48.7 B	10.4 B	13	13	13	11
Calcium	NA	ug/L	43,000	45,700 [44,900]	23,600	30,000	NS	40,500	38,100	42,000	41,000	34,000
Chromium	50	ug/L	500 U	4.0 U [4.0 U]	10.0 U	10.0 U	12.5	10.0 U	4 U	5.0U	5.0U	5.0U
Cobalt	NA	ug/L	25.0 U	4.0 U [4.0 U]	50.0 U	50.0 U	NS	50.0 U	4 U	5.0U	5.0U	5.0U
Copper	200	ug/L	3.00 J	5.90 J [6.30 J]	25.0 U	1.70 B	NS	4.50 B	10 U	6	5.0U	5.0U
Iron	300	ug/L	61.0 J	50.0 U [19.0 J]	100 U	100 UB	NS	12.9 B	50 U	70.0U	70.0U	70.0U
Lead	25	ug/L	10.0 U	5.00 U [5.00 U]	5.00 U	5.00 U	50.5	5.00 U	10 U	5.0U	5.0U	5.0U
Magnesium	35,000	ug/L	6.50	8,380 [8,360]	5,000 U	4,180 B	NS	6,950	6,500	6,800	7,110	5,250
Manganese	300	ug/L	15.0 U	0.80 J [0.70 J]	15.0 U	15.0 UB	NS	15.0 U	3 U	5.0U	5.0U	5.0U
Nickel	100	ug/L	40.0 U	10.0 U [10.0 U]	40.0 U	40.0 U	NS	40.0 U	10 U	10.0U	10.0U	10.0U
Potassium	NA	ug/L	5000 U	546 [574]	5,000 U	642	NS	659 B	740	593	564	577
Sodium	20,000	ug/L	7000 J	6.80 [6.80]	5,000 U	4,130	NS	7,070	6,900	5,660	6,190	5,250
Vanadium	NA	ug/L	50.0 U	5.00 U [5.00 U]	10.0 U	10.0 U	NS	10.0 U	5 U	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	7.20 J	7.30 J [7.70 J]	20.0 U	20.0 UB	NS	20.0 UB	10 U	10.0U	10.0U	11
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	10 U	10 U	10.0U	10.0U	10.0U

See Notes on Page 9

Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2011	2012	2013	2014	2015	2016	2017	2018
FWMW-1											
<b>VOCs</b>											
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Benzene	1	ug/L	16	9.1	11 [12]	4.8 [4.3]	0.98	2.3	1.9	1.0U	2.6
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Toluene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	2.0 U	1.0 U	1.0 U [1.0 U]	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Xylene (Total)	5	ug/L	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	2.0 U	3.0 U	3.0 U	3.0U
<b>SVOCs</b>											
Acenaphthene	20	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Anthracene	50	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Benzo(a)anthracene	0.002	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [0.49 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
Benzo(a)pyrene	NA	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Benzo(b)fluoranthene	0.002	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Benzo(g,h,i)perylene	NA	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Benzo(k)fluoranthene	0.002	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.4 U	5.0 U	5.8 U [5.6 U]	NA	2.0 U	26 U	1.0 U	0.97U	3.8
Carbazole	NA	ug/L	5.4 U	NA	NA	NA	2.0 U	26 U	1.0 U	0.97U	1.0U
Chrysene	0.002	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [0.37 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
Dibenz(a,h)anthracene	NA	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Dibenzofuran	NA	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	NA	2.0 U	53 U	1.0 U	0.97U	1.0U
Fluoranthene	50	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [0.68 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
Fluorene	50	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [2.9 U]	2.0 U	26 U	1.0 U	0.97U	1.0U
Naphthalene	10	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	0.53 J [0.77 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
Phenanthrene	50	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [0.37 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
Pyrene	50	ug/L	5.4 U	5.0 U	2.3 U [2.2 U]	2.9 U [0.74 J]	2.0 U	26 U	1.0 U	0.97U	1.0U
<b>Metals</b>											
Aluminum	NA	ug/L	200 U	200 U	200 U [200 U]	NS	71.0 J	250	95.7	3060	392
Barium	1,000	ug/L	260	126	130 [135]	119 [131]	130	120	117	643	214
Calcium	NA	ug/L	140,000	73,100	73,500 [76,100]	NS	76,600	60500	54,300	83,600	86,200
Chromium	50	ug/L	5.0 U	10.0 U	0.700 B [10.0 U]	1.60 B [10.0 U]	0.800 B	4 U	5.0U	45.5	6.3
Cobalt	NA	ug/L	25.0 U	50.0 U	0.500 B [50.0 U]	NS	50.0 U	4 U	5.0U	7.0	5.0U
Copper	200	ug/L	6.0	25.0 U	25.0 U [25.0 U]	NS	25.0 U	10 U	10.4	159	15.7
Iron	300	ug/L	9,800	7,990	8,060 [8,430]	NS	8,110 J	8500	13,300	118,000	16,700
Lead	25	ug/L	2.80 J	5.00 U	5.00 U [5.00 U]	5.00 U [5.00 U]	5.00 U	10 U	5.0U	8.5	5.0U
Magnesium	35,000	ug/L	33,000	15,800	15,500 [16,000]	NS	14,300	10600	10,100	16,800	14,300
Manganese	300	ug/L	310	197	191 [196]	NS	204	150	172	562	185
Nickel	100	ug/L	40.0 U	40.0 U	40.0 U [40.0 U]	NS	1.20 B	10 U	10.0U	29.2	10.0U
Potassium	NA	ug/L	8,000 J	5,000 U	4,000 B [4,120 B]	NS	3,200 B	2900	2,510	3,560	3,540
Sodium	20,000	ug/L	200,000 J	48,000	42,200 [44,000]	NS	45,700	56,200	34,000	63,600	101,000
Vanadium	NA	ug/L	50.0 U	10.0 U	10.0 U [10.0 U]	NS	10.0 U	5 U	5.0U	19.7	5.0U
Zinc	2,000	ug/L	24	20.0 U	20.0 U [20.0 U]	NS	22.9 UB	37	31.2	377	49.1
Total Cyanide	200	ug/L	NS	NS	NS	NS	10 U	10	10.0U	0.056	10.0U

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Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
FWMW-2												
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Benzene	1	ug/L	5.0 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0U	1.0U
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Toluene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Xylene (Total)	5	ug/L	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	3.0 U	3.0 U	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Anthracene	50	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Benzo(a)anthracene	0.002	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Benzo(a)pyrene	NA	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Benzo(b)fluoranthene	0.002	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Benzo(g,h,i)perylene	NA	ug/L	5.4 UJ	4.8 U	5.3 UJ	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Benzo(k)fluoranthene	0.002	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.4 U	4.8 U	5.3 U	6.3 U	NA	2.0 U	26 U	1.0 U	0.99 U	0.99U
Carbazole	NA	ug/L	5.4 U	NA	NA	NA	NA	2.0 U	26 U	1.0 U	0.99 U	0.99U
Chrysene	0.002	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Dibenz(a,h)anthracene	NA	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Dibenzofuran	NA	ug/L	5.4 U	9.6 U	5.3 U	2.5 U	NA	2.0 U	53 U	1.0 U	0.99 U	0.99U
Fluoranthene	50	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Fluorene	50	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Naphthalene	10	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Phenanthrene	50	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
Pyrene	50	ug/L	5.4 U	4.8 U	5.3 U	2.5 U	2.6 U	2.0 U	26 U	1.0 U	0.99 U	0.99U
<b>Metals</b>												
Aluminum	NA	ug/L	200 U	200 UB	200 U	200 U	NS	224	11,400	208	75	151
Barium	1,000	ug/L	400	507	529	530	87.8	488	690	577	395	399
Calcium	NA	ug/L	300,000	361,000	367,000	328,000	NS	316,000	392,000	368,000	262,000	260,000
Chromium	50	ug/L	5.0 U	1.1 J	10.0 U	1.30 B	10.0 UB	10.0 U	53	5.0U	5.0U	5.0U
Cobalt	NA	ug/L	25 U	1.5 J	50.0 U	50.0 U	NS	50.0 U	13	25.0U	10.0U	5.0U
Copper	200	ug/L	5.0 U	3.7 J	25.0 U	25.0 U	NS	25.0 U	44	5.0U	5.0U	5.0U
Iron	300	ug/L	29,000	31,500	33,600	27,700	NS	39,000	57,100	32,100	23,300	22,900
Lead	25	ug/L	5.4 J	5.0	5.00 U	5.00 U	5.00 U	5.00 U	36	25.0U	10.0U	5.0U
Magnesium	35,000	ug/L	28,000	33,700	32,500	28,700	NS	27,200	37,800	30,000	22,100	21,300
Manganese	300	ug/L	2,500	3,210	2,920	2,400	NS	2,380	2,500	1,900	1,640	1,530
Nickel	100	ug/L	40 U	2.5 J	40.0 U	40.0 U	NS	0.800 B	43	10.0U	10.0U	10.0U
Potassium	NA	ug/L	10,000 J	8,830	9,720	9,030	NS	9,340	13,100	12,400	7,740	8,190
Sodium	20,000	ug/L	930,000 J	1,220,000	1,100,000	1,390,000	NS	996,000	1,590,000	1,380,000	1,170,000	1,220,000
Vanadium	NA	ug/L	50 U	1.8 J	10.0 U	10.0 U	NS	1.00 B	27	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	20 U	8.6 J	20.0 U	20.0 UB	NS	20.0 UB	360	10.0U	10.0U	10.0U
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	120	10 U	10.0U	0	0

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Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
FWMW-3												
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	1.0 UJ	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	0.64 J [0.43 J]	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
Benzene	1	ug/L	5.0 U	1.0 U	0.50 U	0.50 U	0.50 U	24 [16]	1.0 U	1.0 U	1.0U	1.0U
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 [0.92 J]	1.0 U	1.0 U	1.0U	1.0U
Toluene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U [1.0 U]	1.0 U	1.0 U	1.0U	1.0U
Xylene (Total)	5	ug/L	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.87 J [0.37 J]	2.0 U	3.0 U	3.0 U	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	1.5 J [1.1 J]	5.5 U	1.0 U	0.99U	1.1U
Anthracene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Benzo(a)anthracene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Benzo(a)pyrene	NA	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Benzo(g,h,i)perylene	NA	ug/L	5.2 UJ	4.8 U	5.0 UJ	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.2 U	4.8 U	5.0 U	5.4 U	NA	0.42 J [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Carbazole	NA	ug/L	5.2 U	NA	NA	NA	NA	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Chrysene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Dibenz(a,h)anthracene	NA	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Dibenzofuran	NA	ug/L	5.2 U	9.6 U	5.0 U	2.2 U	NA	2.0 U [2.4 U]	11 U	1.0 U	0.99U	1.1U
Fluoranthene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Fluorene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Naphthalene	10	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Phenanthrene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
Pyrene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.2 U	2.0 U [2.4 U]	5.5 U	1.0 U	0.99U	1.1U
<b>Metals</b>												
Aluminum	NA	ug/L	200 U	200 UB	200 U	611	NS	307 J [1,870 J]	2,700	81	491	540
Barium	1,000	ug/L	400	72	56.5	56.7	78.0	87.4 [102]	74	54	63	60
Calcium	NA	ug/L	300,000	146,000	127,000	127,000	NS	128,000 [136,000]	101,000	122,000	105,000	119,000
Chromium	50	ug/L	5 U	4 U	10.0 U	3.70 B	10.0 UB	1.80 B [5.10 B]	14	5.0U	5.0U	5.0U
Cobalt	NA	ug/L	25 U	4 U	50.0 U	50.0 U	NS	1.40 B [2.60 B]	4 U	5.0U	5.0U	5.0U
Copper	200	ug/L	5 U	2.8 U	25.0 U	25.0 U	NS	25.0 U [6.60 B]	10 U	5.0U	5.0U	5.0U
Iron	300	ug/L	29,000	93	326	532	NS	377 J [1,920 J]	2,300	126	485	506
Lead	25	ug/L	5.4 J	5 U	5.00 U	5.00 U	5.00 U	5.00 U [3.30 B]	10 U	5.0U	5.0U	5.0U
Magnesium	35,000	ug/L	28,000	15,900	12,200	11,300	NS	13,800 [14,900]	9,900	10,700	10,300	9,840
Manganese	300	ug/L	2,500	23	27.0	48.4	NS	216 [313]	190	324	56	59
Nickel	100	ug/L	40 U	1.6 J	40.0 U	40.0 U		1.50 B [4.10 B]	10 U	10.0U	10.0U	10.0U
Potassium	NA	ug/L	10000 J	4,450	5,000 U	2,600		4,280 B [4,770 B]	4,200	3,510	3,350	3,050
Sodium	20,000	ug/L	930,000 J	152,000	81,500	55,300	NS	254,000 [267,000]	156,000	85,600	131,000	66,200
Vanadium	NA	ug/L	50 U	5 U	10.0 U	2.80 B	NS	1.80 B [4.60 B]	7	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	20 U	24	28.8	31.2	NS	45.9 [75.2]	90	44	32	30
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	93 [120]	10 U	100	0	0

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Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
FWMW-5												
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Benzene	1	ug/L	5.0 U	1.0 U	0.50 U	0.50 U	<b>0.46 J</b>	0.50 U	1.0 U	1.0 U	<b>2.2</b>	1.0U
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	<b>1.1</b>	1.0U
Toluene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	<b>2.9</b>	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Xylene (Total)	5	ug/L	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	3.0 U	<b>5.5</b>	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	5.2 U	1.5 J	5.0 U	2.2 U	2.8	2.4 U	5.5 U	<b>1.8</b>	<b>5.3</b>	4.2
Anthracene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	1.5
Benzo(a)anthracene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	<b>6.2</b>
Benzo(a)pyrene	NA	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	5.9
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	<b>4.1</b>
Benzo(g,h,i)perylene	NA	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	2.5
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	<b>6.0</b>
bis(2-Ethylhexyl)phthalate	5	ug/L	5.2 U	4.8 U	5.0 U	5.4 U	NA	2.4 U	5.5 U	1.0 U	1.1 U	1.1U
Carbazole	NA	ug/L	5.2 U	NA	NA	NA	NA	2.4 U	5.5 U	1.0 U	1.1 U	1.1U
Chrysene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	<b>5.0</b>
Dibenz(a,h)anthracene	NA	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	1.2
Dibenzofuran	NA	ug/L	5.2 U	9.6 U	5.0 U	2.2 U	NA	2.4 U	11 U	1.0 U	1.1 U	1.1U
Fluoranthene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	10.4
Fluorene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	1.1U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	<b>2.9</b>
Naphthalene	10	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	1.1U
Phenanthrene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	3.4
Pyrene	50	ug/L	5.2 U	4.8 U	5.0 U	2.2 U	2.3 U	2.4 U	5.5 U	1.0 U	1.1 U	9.3
<b>Metals</b>												
Aluminum	NA	ug/L	620	285	200 U	86.7 B	NS	1,330 J	7,700	437	13,600	3,120
Barium	1,000	ug/L	44	34.9	50.0 U	66.5	42.2	57.4	98	61.7	110	54.1
Calcium	NA	ug/L	170,000	156,000	145,000	184,000	NS	165,000	167,000	166,000	148,000	134,000
Chromium	50	ug/L	5 U	1.0 J	10.0 U	1.90 B	10.0 U	2.00 B	12	5.0U	21.4	5.0U
Cobalt	NA	ug/L	37	9.7	50.0 U	1.60 B	NS	14.4 B	35	35.8	56.4	20.8
Copper	200	ug/L	3.4 J	2.3 J	25.0 U	25.0 U	NS	4.30 B	10	5.0U	32.9	5.1
Iron	300	ug/L	<b>2,600</b>	<b>570</b>	<b>677</b>	259	NS	<b>3,070 J</b>	<b>11,700</b>	<b>2,440</b>	<b>27,700</b>	<b>5,520</b>
Lead	25	ug/L	10 U	5.0 U	5.00 U	5.00 U	5.00 U	3.50 B	18	5.4	49.8	7.3
Magnesium	35,000	ug/L	15,000	25,500	14,000	28,400	NS	17,100	18,500	17,100	16,500	15,400
Manganese	300	ug/L	240	51.5	104	9.30	NS	103	200	227	<b>463</b>	138
Nickel	100	ug/L	40 U	2.1 J	40.0 U	1.20 B	NS	2.30 B	10 U	10.0U	15.2	10.0U
Potassium	NA	ug/L	2,800 J	2,610	5,000 U	5,250	NS	2,990 B	4,900	4,020	5,070	4,180
Sodium	20,000	ug/L	5,500 J	5,100	9,460	<b>88,000</b>	NS	19,600	<b>29,700</b>	<b>32,500</b>	<b>26,300</b>	<b>53,500</b>
Vanadium	NA	ug/L	50 U	1.3 J	10.0 U	1.30 B	NS	3.20 B	18	5.0U	38.4	8.5
Zinc	2,000	ug/L	70	27.7	34.5	39.1	NS	37.2	75	27.1	213	54.3
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	47	60	46	0.081	0.000045

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Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
MW-101RD												
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	92	160 D	1.5 [2.3]	32	NS	74	110 E	1.2	50.7	29.1
1,1-Dichloroethane	5	ug/L	60	82	9.0 [11]	21	NS	80	89	1.8	79.3	81.7
1,1-Dichloroethene	5	ug/L	10 J	21	1.0 U [1.0 U]	3.2	NS	17	21	1.0 U	9.0	4.4
Benzene	1	ug/L	1.5 J	0.56 J	0.73 [0.76]	0.34 J	0.50 U	0.87	1.3	1.0 U	1.0U	1.0U
Chloroform	7	ug/L	20 U	1.0 U	1.0 U [1.0 U]	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	1,100	1,900 D	52 [57]	330	NS	820 D	1000 E	19.7	622	562
Ethylbenzene	5	ug/L	20 U	3.1	1.0 U [1.0 U]	1.2	1.0 U	2.5	3.3	1.0 U	1.0U	1.0U
Toluene	5	ug/L	20 U	1.4	1.0 U [1.0 U]	1.0 U	1.0 U	2.4	4.4	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	2.9 J	3.8	2.1 [2.1]	1.3	NS	5.6	3.5	1.0 U	2.5	2.7
Trichloroethene	5	ug/L	7.9 J	10	1.3 [1.2]	3.0	NS	9.9	13	1.0 U	6.9	24.5
Vinyl Chloride	2	ug/L	100	210 D	30 [38]	66	NS	140	150 E	1.0 U	33.9	317
Xylene (Total)	5	ug/L	20 U	4.5	1.0 U [1.0 U]	1.7	1.0 U	3.1	5.2	3.0 U	3.0 U	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	10	11	7.2 [5.3 U]	2.1 U	4.8	4.1	7.3	1.0 U	0.99 U	1.0U
Anthracene	50	ug/L	4.4 J	5.4	5.7 U [5.3 U]	2.1 U	2.3	2.1	5.1 U	1.0 U	0.99 U	1.0U
Benzo(a)anthracene	0.002	ug/L	6.0 U	0.42 J	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Benzo(a)pyrene	NA	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Benzo(b)fluoranthene	0.002	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Benzo(g,h,i)perylene	NA	ug/L	6.0 UJ	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Benzo(k)fluoranthene	0.002	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
bis(2-Ethylhexyl)phthalate	5	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	5.3 U	NA	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Carbazole	NA	ug/L	3.3 J	NA	NA	NA	NA	1.6 J	5.1 U	1.0 U	0.99 U	1.0U
Chrysene	0.002	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Dibenz(a,h)anthracene	NA	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Dibenzofuran	NA	ug/L	8.4	8.5 J	6.3 [5.3 U]	2.1 U	NA	3.5	10 U	1.0 U	1.0	1.0U
Fluoranthene	50	ug/L	4.6 J	4.8	7.2 [5.3 U]	2.1 U	2.3	2.1	5.1 U	1.0 U	0.99 U	1.0U
Fluorene	50	ug/L	10	11	7.1 [5.3 U]	2.1 U	5.0	3.8	8	1.0 U	1.4	1.0U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	6.0 U	4.8 U	5.7 U [5.3 U]	2.1 U	2.2 U	2.0 U	5.1 U	1.0 U	0.99 U	1.0U
Naphthalene	10	ug/L	61	49	29 J [5.3 UJ]	2.1 U	11	8.8	13	1.0 U	0.99 U	1.0U
Phenanthrene	50	ug/L	18	19	12 [5.3 U]	2.1 U	6.6	5.8	10	1.0 U	0.99 U	1.0U
Pyrene	50	ug/L	6.0 U	3.7 J	5.7 U [5.3 U]	2.1 U	1.6 J	1.5 J	5.1 U	1.0 U	0.99 U	1.0U
<b>Metals</b>												
Aluminum	NA	ug/L	200 U	200 UB	200 U [200 U]	200 UB	NS	45.2 J	200 U	50.0U	50.0U	58.6
Barium	1,000	ug/L	250	207	122 [190]	50.0 UB	251	243	270	21.7	214	212
Calcium	NA	ug/L	170,000	132,000	95,300 [131,000]	14,400	NS	156,000	172,000	23,000	148,000	144,000
Chromium	50	ug/L	5.0 U	4.0 U	10.0 U [10.0 U]	1.00 B	10.0 U	10.0 U	4.0 U	5.0U	5.0U	5.0U
Cobalt	NA	ug/L	25 U	4.0 U	50.0 U [50.0 U]	50.0 U	NS	50.0 U	4.0 U	5.0U	5.0U	5.0U
Copper	200	ug/L	5.0 U	2.7 J	25.0 U [25.0 U]	25.0 U	NS	25.0 U	10 U	6.6	5.0U	5.0U
Iron	300	ug/L	1,700	1,550	1,890 [1,710]	100 UB	NS	1,410 J	1,600	70.0U	1,090	1,720
Lead	25	ug/L	5.0 J	3.7 J	5.00 U [5.00 U]	5.00 U	5.00 U	5.00 U	10 U	5.0U	5.0U	5.0U
Magnesium	35,000	ug/L	23,000	20,500	12,700 [18,400]	1,100 B	NS	22,600	24,100	3,000	20,800	19,400
Manganese	300	ug/L	760	677	378 [565]	13.7 B	NS	693	770	5.0U	662	612
Nickel	100	ug/L	40 U	10 U	40.0 U [40.0 U]	40.0 U	NS	0.600 B	10 U	10.0U	10.0U	10.0U
Potassium	NA	ug/L	11,000 J	8,540	8,440 [8,790]	2,190 B	NS	8,980	9,400	5,270	8,740	9,670
Sodium	20,000	ug/L	470,000 J	357,000	209,000 [300,000]	21,200	NS	389,000	483,000	44,800	398,000	370,000
Vanadium	NA	ug/L	50 U	5.0 U	10.0 U [10.0 U]	2.40 B	NS	10.0 U	5.0 U	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	20 U	4.2 J	85.2 [55.6]	34.2	NS	20.0 UB	10 U	270	27.2	10.0U
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	10 U	10 U	10.0U	10.0U	10.0U

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Table 6

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
			MW-102R									
<b>VOCs</b>												
1,1,1-Trichloroethane	5	ug/L	2.6 J	1.3	1.0 UJ	1.0 U	NS	1.0 U	1.0 U	1.0 U	2.8	1.0U
1,1-Dichloroethane	5	ug/L	2.2 J	1.1	1.0 U	1.0 U	NS	1.0 U	12	9.8	18.6	9.9
1,1-Dichloroethene	5	ug/L	1.0 J	0.52 J	1.0 U	1.0 U	NS	1.0 U	2.3	2.4	5.0	2.7
Benzene	1	ug/L	3.7 J	4.6	0.50 U	0.50 U	0.50 U	0.50 U	2.2	1.8	1.0U	1.6
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	37	19	1.0 U	1.0 U	NS	1.0 U	87 F1	83.7	113	67.2
Ethylbenzene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Toluene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0U	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	0.67 J	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	0.14 J	1.0 U	1.0 U	1.0 U	NS	1.0 U	9.0	9.1	3.0	3.4
Xylene (Total)	5	ug/L	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	3.0 U	3.0 U	3.0U
<b>SVOCs</b>												
Acenaphthene	20	ug/L	5.2 U	1.9 J	5.8 UJ	0.54 J	0.93 J	0.56 J	5.0 U	1.0 U	1.0U	1.0U
Anthracene	50	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Benzo(a)anthracene	0.002	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Benzo(a)pyrene	NA	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Benzo(g,h,i)perylene	NA	ug/L	5.2 UJ	4.8 U	5.8 UJ	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.2 U	4.8 U	5.8 U	6.1 U	NA	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Carbazole	NA	ug/L	5.2 U	NA	NA	NA	NA	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Chrysene	0.002	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Dibenz(a,h)anthracene	NA	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Dibenzofuran	NA	ug/L	5.2 U	9.6 U	5.8 UJ	2.4 U	NA	2.0 U	9.9 U	1.0 U	1.0U	1.0U
Fluoranthene	50	ug/L	5.2 U	0.84 J	5.8 U	0.33 J	0.29 J	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Fluorene	50	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Naphthalene	10	ug/L	5.2 U	4.8 U	5.8 UJ	2.4 U	1.3 J	2.0 UJ	5.0 U	1.0 U	1.0U	1.0U
Phenanthrene	50	ug/L	5.2 U	4.8 U	5.8 U	2.4 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0U	1.0U
Pyrene	50	ug/L	5.2 U	1.0 J	5.8 U	0.52 J	0.63 J	0.55 J	5.0 U	1.0 U	1.0U	1.0U
<b>Metals</b>												
Aluminum	NA	ug/L	200 U	200 UB	200 U	200 U	NS	49.3 B	200 U	50.0U	50.0U	50.0U
Barium	1,000	ug/L	290	277	115	106	197	89.6	220	202	301	261
Calcium	NA	ug/L	130,000	120,000	72,600	75,300	NS	72,500	117	120,000	168,000	152,000
Chromium	50	ug/L	5.0 U	4.0 U	10.0 U	1.10 B	10.0 U	10.0 U	4.0 U	5.0U	5.0U	5.0U
Cobalt	NA	ug/L	25 U	4.0 U	50.0 U	50.0 U	NS	50.0 U	4.0 U	5.0U	5.0U	5.0U
Copper	200	ug/L	1.6 J	2.7 J	25.0 U	25.0 U	NS	25.0 U	10 U	5.0U	5.0U	5.0U
Iron	300	ug/L	7,600	6,810	4,850	7,450	NS	4,020	4,200	4,930	4,370	3,760
Lead	25	ug/L	10 U	3.0 J	5.00 U	5.00 U	5.00 U	5.00 U	10 U	5.0U	5.0U	5.0U
Magnesium	35,000	ug/L	25,000	26,300	12,200	11,100	NS	11,700	21,000	21,300	29,800	25,400
Manganese	300	ug/L	590	504	183	221	NS	175	1,100	1,130	2,290	1,690
Nickel	100	ug/L	40 U	1.4 J	40.0 U	40.0 U	NS	40.0 U	10 U	10.0U	10.0U	10.0U
Potassium	NA	ug/L	7,700	7,830	5,000 U	1,960	NS	2,300 B	6,800	5,830	7,780	7,270
Sodium	20,000	ug/L	140,000	166,000	44,400	40,700	NS	72,100	141,000	116,000	186,000	168,000
Vanadium	NA	ug/L	50 U	5.0 U	10.0 U	10.0 U	NS	10.0 U	5.0 U	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	9.8 J	2.9 J	20.0 U	20.0 UB	NS	20.0 UB	13	10.0U	10.0U	12
Total Cyanide	200	ug/L	NS	NS	NS	NS	NS	10 U	10 U	10.0U	10.0U	10.0U

See Notes on Page 9

Table 6

National Grid  
 Little Falls (Mill Street) Non-Owned Former MGP Site  
 Little Falls, New York

## Groundwater Monitoring Analytical Results (2009 to 2018)

Constituent	NYSDEC AWQS	Units	2009	2011	2012	2013	2014	2015	2016	2017	2018
MW-103R											
<b>VOCs</b>											
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0U	1.0U	1.0U
1,1-Dichloroethane	5	ug/L	51	22	26	NS	25	18	18.4	16.5	8.7
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0U	1.0U	1.0U
Benzene	1	ug/L	50	4.9	97	170	88	18	14.4	47.3	21.6
Chloroform	7	ug/L	5.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0U	1.0U	1.0U
cis-1,2-Dichloroethene	5	ug/L	3.2 J	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Ethylbenzene	5	ug/L	32	1.8	110 J	150	28	1.0 U	5.3	9.1	3.2
Toluene	5	ug/L	16	1.0 U	7.1	54 J	10	1.0 U	1.0 U	2.2	1.0U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Trichloroethene	5	ug/L	5.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0U	1.0U
Vinyl Chloride	2	ug/L	37	1.0 U	3.7	NS	6.4	2.7	1.0 U	1.5	1.0U
Xylene (Total)	5	ug/L	28	1.4	44	140	24	2.7	3.0 U	6.9	3.0U
<b>SVOCs</b>											
Acenaphthene	20	ug/L	23	5.8 UJ	83 J	38 J	31	5.1 U	18.1	21.3	3.0
Anthracene	50	ug/L	5.2 U	5.8 U	4.0	3.1	1.8 J	5.1 U	1.3	2.5	0.98U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Benzo(a)pyrene	NA	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Benzo(g,h,i)perylene	NA	ug/L	5.2 UJ	5.8 UJ	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
bis(2-Ethylhexyl)phthalate	5	ug/L	5.2 U	5.8 U	5.0 U	NA	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Carbazole	NA	ug/L	6.8	NA	NA	NA	25	5.1 U	13.8	22	6.3
Chrysene	0.002	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Dibenz(a,h)anthracene	NA	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Dibenzofuran	NA	ug/L	7.5	5.8 UJ	32	NA	12	10 U	6.5	9.1	1.2
Fluoranthene	50	ug/L	5.2 U	5.8 U	0.82 J	1.1 J	0.71 J	5.1 U	1.0 U	1.0 U	0.98U
Fluorene	50	ug/L	9.2	5.8 U	26	8.9 J	6.9	5.1 U	1.0 U	7.6	0.98U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5.8 U	2.0 U	2.3 U	2.6 U	5.1 U	1.0 U	1.0 U	0.98U
Naphthalene	10	ug/L	22	5.8 UJ	33 J	46 J	49	5.1 U	1.2	8.2	0.98U
Phenanthrene	50	ug/L	2.8 J	5.8 U	21	14	8.7	5.1 U	6.1	9.6	0.98U
Pyrene	50	ug/L	5.2 U	5.8 U	0.62 J	0.78 J	0.50 J	5.1 U	1.0 U	1.0 U	0.98U
<b>Metals</b>											
Aluminum	NA	ug/L	200 U	1,350	819	NS	76.8 B	200 U	69	50.0U	81
Barium	1,000	ug/L	110	119	282	202	304	260	346	353	270
Calcium	NA	ug/L	110,000	135,000	253,000 J	NS	249,000	248,000	331,000	254,000	225,000
Chromium	50	ug/L	5.0 U	10.0 U	3.90 B	10.0 U	0.800 B	4.0 U	5.0U	5.0U	27
Cobalt	NA	ug/L	25 U	50.0 U	50.0 U	NS	50.0 U	4.0 U	5.0U	5.0U	5.0U
Copper	200	ug/L	5.0 U	25.0 U	5.30 B	NS	25.0 U	10 U	5.0U	5.0U	5.0U
Iron	300	ug/L	440	4,380	9,070	NS	8,110	870	1,200	3,780	1,030
Lead	25	ug/L	5.3 J	8.30	5.00 U	5.00 U	5.00 U	10 U	5.0U	5.0U	5.0U
Magnesium	35,000	ug/L	14,000	21,900	34,100	NS	34,400	35,100	43,100	33,900	30,100
Manganese	300	ug/L	160	703	2,140	NS	2,430	1,200	962	1,920	846
Nickel	100	ug/L	40 U	40.0 U	3.00 B	NS	2.00 B	10 U	10.0U	10.0U	17
Potassium	NA	ug/L	28,000 J	22,600	12,100	NS	11,800	11,700	13,000	11,500	10,600
Sodium	20,000	ug/L	330,000 J	239,000	334,000	NS	354,000	408,000	517,000	586,000	501,000
Vanadium	NA	ug/L	50 U	10.0 U	3.80 B	NS	1.40 B	5.0 U	5.0U	5.0U	5.0U
Zinc	2,000	ug/L	20 U	29.8	11.2 B	NS	20.0 UB	10 U	10.0U	10.0U	10.0U
Total Cyanide	200	ug/L	NS	NS	NS	NS	23	20	23	0	0

See Notes on Page 9

Table 6

National Grid

Little Falls (Mill Street) Non-Owned Former MGP Site

Little Falls, New York

Groundwater Monitoring Analytical Results (2009 to 2018)

**Notes:**

1. AWQS = Ambient Water Quality Standards (from TOGS 1.1.1)
2. NA = NYSDEC AWQS Not Applicable for this Constituent
3. NYSDEC = New York State Department of Environmental Conservation
4. TOGS = Technical and Operational Guidance Series
5. **Bolded** = values indicate exceedance of the NYSDEC AWQS
6. Groundwater samples collected during 2013 were only analyzed for RCRA metals

Table 7

National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York

### NAPL Monitoring Results (2009 to 2018)

Presence/Thickness of NAPL (inches)														
Well	Oct 2009	Dec 2009	Feb 2010	April 2010	June 2010	Aug 2010	Oct 2010	Dec 2010	Apr 2011	Oct 2011	Dec 2011	June 2012	Dec 2012	Aug 2013
RW-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-2	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-3	NP	NP	NP	NP	NP	NP	NP	NP	Trace	Trace	Trace	0.12	0.48	0.96
MW-101RD	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

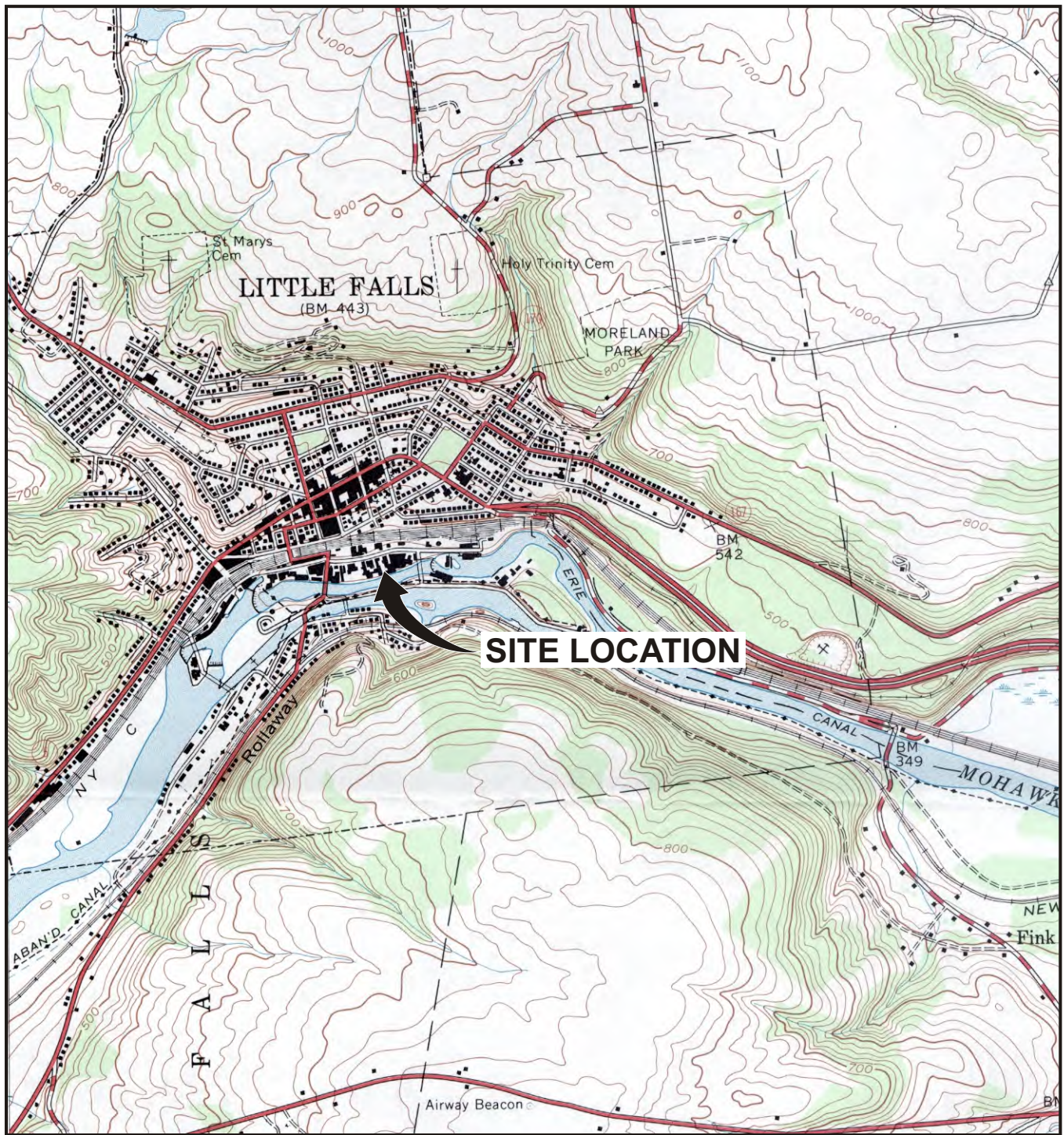
Presence/Thickness of NAPL (inches)						
Well	Dec 2013	June 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018
RW-1	NP	NP	NP	NP	NP	NP
RW-2	NP	NP	NP	NP	NP	NP
RW-3	0.96	2.04	NP	NP	NP	Trace
MW-101RD	Trace	NP	NP	NP	NP	NP

NP – NAPL was not present

# FIGURES







REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., LITTLE FALLS, NY, 1943.

2000' 0 2000'  
Approximate Scale: 1" = 2000'



NATIONAL GRID  
LITTLE FALLS (MILL STREET) NON-OWNED FORMER MGP SITE  
LITTLE FALLS, NEW YORK  
**FINAL ENGINEERING REPORT**

## SITE LOCATION MAP



FIGURE  
**1**



CITY: SYRACUSE, N.Y. DIV: GROUP: ENV/CAD: 141 DB: NES: LAF: R: ALLEN LD: (Opt) PIC: (Opt) PM: (Red) TM: (Opt) LY: (Opt) OFF: REF: G:\ENV\CAD\SYRACUSE\ACT\B0036673000000013\DWG\B036673B03.DWG LAYOUT: 2. SAVED: 10/22/2009 9:47 AM ACADVER: 18.05 (LMS TECH) PAGES: 2 PLOT: PLT: FULL CTB PLOTTED: 7/28/2011 5:10 PM BY: BASSETT, RICHARD

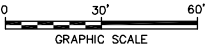






LEGEND:	
	PROPERTY LINE
	BUILDING
	EDGE OF WATER
	SANITARY SEWER
	STORM SEWER
	APPROXIMATE LOCATION OF HISTORICAL MGP STRUCTURES
	LINE OF DEMARCATION
	OVERHEAD WIRES
	MANHOLE
	SANITARY MANHOLE
	CONTOUR ELEVATION
	GAS VALVE
	WATER VALVE
	GAS LINE
	CAST IRON PIPE
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	DUCTILE IRON PIPE
	NUMBER OF OVERHEAD WIRE POLE
	HYDRANT
	APPROXIMATE LOCATION OF SHORELINE

- NOTES:
1. BASE MAP INFORMATION TAKEN FROM A DRAWING TITLED SOIL BORING AND MONITORING WELL LOCATIONS BY C.T.MALE ASSOCIATES, P.C. DATED 2/8/05. AERIAL PHOTOGRAPH WAS SUPPLIED BY THE NEW YORK STATE GIS CLEARINGHOUSE WEBSITE. PROJECTION IS STATE PLANE NEW YORK EAST ZONE, NAD83; FEET, FLOWN IN 2003.
  2. APPROXIMATE LINE OF DEMARCATION BASED ON HISTORIC TAX LOTS AND CURRENT FEATURES LITTLE FALLS (MILL ST.) SITE, FIGURE 1 (FOSTER WHEELER, JULY 2003).
  3. LINE OF DEMARCATION SEPARATES THE MGP (VCO) PORTION OF THE PROPERTY FROM THE NON-MGP (VCA) PORTION OF THE PROPERTY.
  4. LOCATION OF HISTORICAL MGP STRUCTURES ARE BASED ON HISTORICAL SANBORN MAPS AND ARE APPROXIMATE.
  5. APPROXIMATE LOCATION OF THE PIPE GALLERY IS BASED ON PREVIOUS INVESTIGATIONS AND TEST PITTING ACTIVITIES CONDUCTED BY FOSTER WHEELER ENVIRONMENTAL CORPORATION.

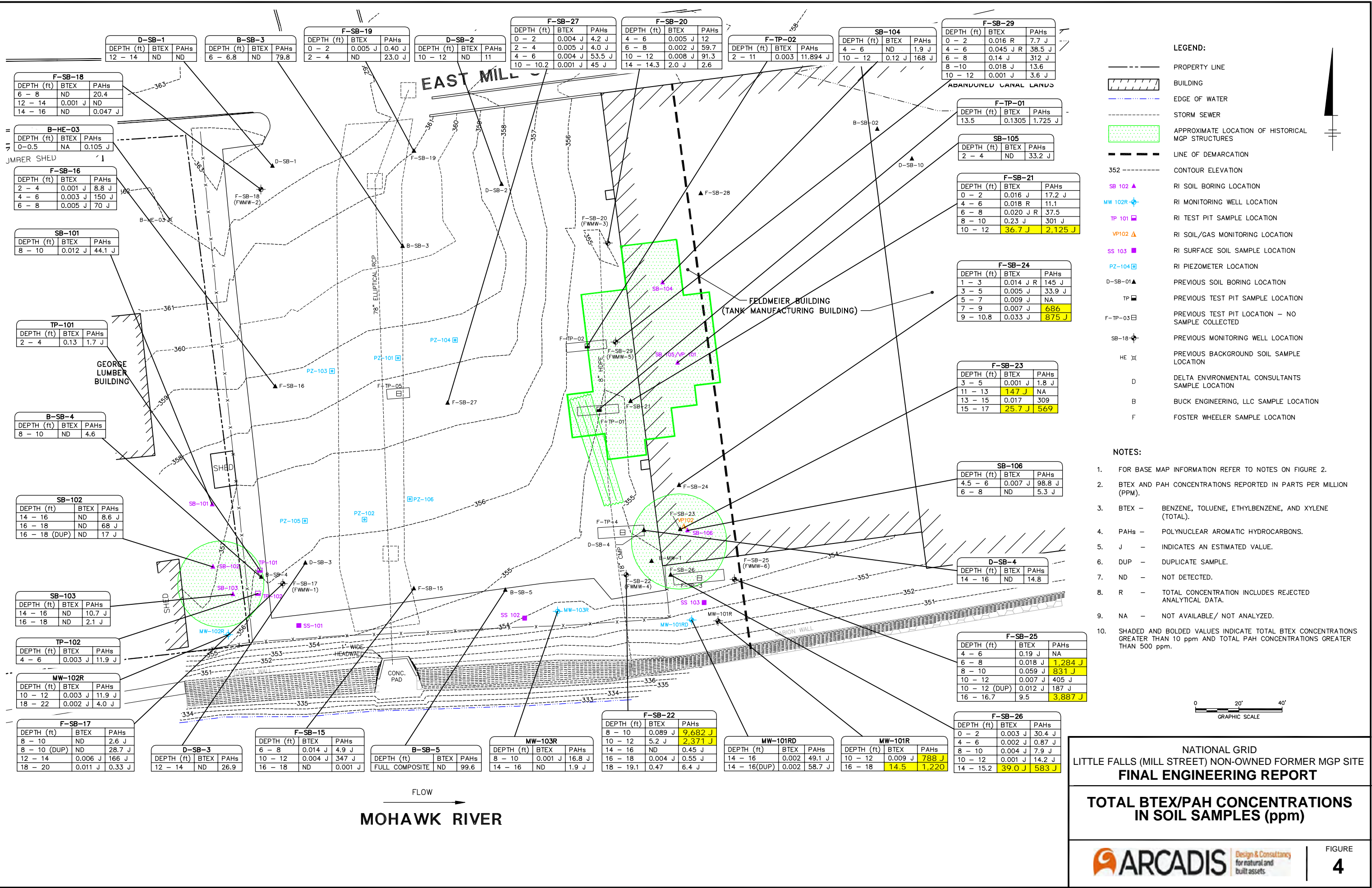


NATIONAL GRID  
LITTLE FALLS (MILL STREET) NON-OWNED FORMER MGP SITE  
**FINAL ENGINEERING REPORT**

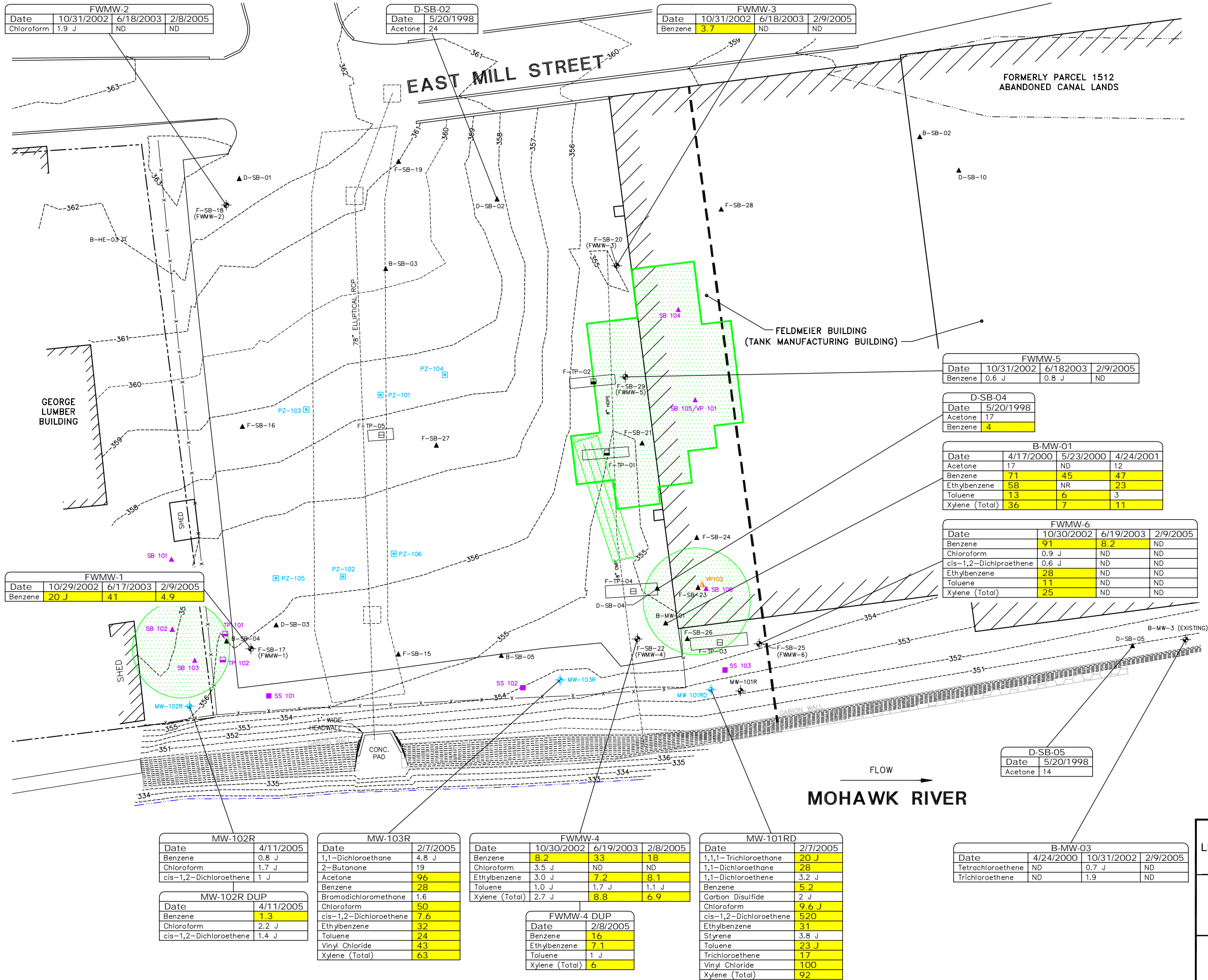
**SITE PLAN - AERIAL PHOTO**







CITY: SYRACUSE, N.Y. DIV: GROUP ENV/CAD: 141 DB: NES, GWS, RALLEN LD: (Opt) PIC: (Opt) PM: (Reqd) TM: (Opt) LVR: (Option) OFF: REF- G:\ENV\CAD\SYRACUSE\ACT\B03667300\0000013\DWG\3667301.DWG LAYOUT: 5. SAVED: 10/22/2009 10:40 AM ACADVER: 18.0S (LWS TECH) PAGES: 5 PLOT: PLT/Full CTD BY: BASSETT, RICHARD



NATIONAL GRID  
LITTLE FALLS (MILL STREET) NON-OWNED FORMER MGP SITE  
**FINAL ENGINEERING REPORT**

**DETECTED VOC CONCENTRATIONS  
IN GROUNDWATER SAMPLES (PPB)**



CITY: SYRACUSE, NY DIV: GROUP ENV: CAD: 141 DB: NES, GMS, RALLEN LD: (Opt) PIC: (Opt) PM: (Read) TM: (Opt) LVR: (Opt) ON: "OFF" = REF: G:\ENV\CAD\SYRACUSE\ACT\B0036673000000013\DWG\36673002.DWG LAYOUT: 6 SAVED: 10/22/2009 11:30 AM ACADVER: 18.0S (LWS TECH) PAGES: 6 PLOT: 1 PLOT DATE: 7/28/2011 4:24 PM BY: BASSETT, RICHARD

FWMW-2			
Date	10/29/2002	6/18/2003	2/8/2005
2-Methylnaphthalene	ND	ND	0.2 J

D-SB-02	
Date	5/20/1998
Bis(2-ethylhexyl)phthalate	7

FWMW-3			
Date	10/31/2002	6/18/2003	2/9/2005
Acenaphthene	3.1 J	0.5 J	ND
Carbazole	0.5 J	ND	ND
Fluorene	0.4 J	ND	ND
Hexachlorobutadiene	0.3 J	ND	ND
N-Nitrosodiphenylamine	1.5 J	ND	ND
Naphthalene	0.9 J	ND	ND

FORMERLY PARCEL 1512  
ABANDONED CANAL LANDS

FWMW-5			
Date	10/31/2002	6/18/2003	2/9/2005
Acenaphthene	2.9 J	0.6 J	ND
Acenaphthylene	0.4 J	ND	ND
Anthracene	0.8 J	0.3 J	ND
Benzo(a)anthracene	1.4	0.5 J	ND
Benzo(a)pyrene	0.8 J	0.4 J	ND
Benzo(b)fluoranthene	0.9 J	0.2 J	ND
Benzo(g,h,i)perylene	0.4 J	ND	ND
Benzo(k)fluoranthene	0.6 J	0.5 J	ND
Carbazole	0.8 J	ND	ND
Chrysene	0.9 J	0.5 J	ND
Dibenzofuran	0.5 J	ND	ND
Fluoranthene	2.4 J	1.0 J	ND
Fluorene	1.0 J	0.2 J	ND
Indeno(1,2,3-cd)pyrene	0.4 J	ND	ND
Phenanthrene	1.3 J	0.6 J	ND
Pyrene	1.7 J	0.8 J	ND

FWMW-1			
Date	10/29/2002	6/17/2003	2/9/2005
Acenaphthene	ND	0.5 J	ND
Benzo(a)anthracene	ND	0.3 J	ND
Benzo(b)fluoranthene	ND	0.3 J	ND
Bis(2-ethylhexyl)phthalate	240 J	ND	ND
Chrysene	ND	0.2 J	ND
Fluoranthene	ND	0.4 J	ND
Phenanthrene	ND	0.3 J	ND
Pyrene	ND	0.6 J	ND

D-SB-04	
Date	5/20/1998
Bis(2-ethylhexyl)phthalate	8
Diethylphthalate	8
Di-n-butyl phthalate	8
Fluoranthene	11
Pyrene	8

B-MW-01		
Date	4/17/2000	
Acenaphthylene	20	
Carbazole	7	
Di-n-butyl phthalate	2	
Fluorene	3	
Naphthalene	7	

B-MW-03		
Date	4/18/2000	2/9/2005
Anthracene	3	ND
Benzo(a)anthracene	6	ND
Benzo(b)fluoranthene	4	ND
Benzo(g,h,i)perylene	4	ND
Benzo(k)fluoranthene	6	ND
Bis(2-ethylhexyl)phthalate	5	ND
Chrysene	7	ND
Fluoranthene	14	ND
Indeno(1,2,3-cd)pyrene	4	ND
Phenanthrene	10	ND
Pyrene	11	ND

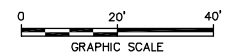
D-SB-05	
Date	5/20/1998
Bis(2-ethylhexyl)phthalate	7

#### LEGEND:

- PROPERTY LINE
- BUILDING
- EDGE OF WATER
- STORM SEWER
- APPROXIMATE LOCATION OF HISTORICAL MGP STRUCTURES
- LINE OF DEMARCATION
- CONTOUR ELEVATION
- RI SOIL BORING LOCATION
- RI MONITORING WELL LOCATION
- RI TEST PIT SAMPLE LOCATION
- RI SOIL/GAS MONITORING LOCATION
- RI SURFACE SOIL SAMPLE LOCATION
- RI PIEZOMETER LOCATION
- PREVIOUS SOIL BORING LOCATION
- PREVIOUS TEST PIT SAMPLE LOCATION
- PREVIOUS TEST PIT LOCATION - NO SAMPLE COLLECTED
- PREVIOUS MONITORING WELL LOCATION
- PREVIOUS BACKGROUND SOIL SAMPLE LOCATION
- DELTA ENVIRONMENTAL CONSULTANTS SAMPLE LOCATION
- BUCK ENGINEERING, LLC SAMPLE LOCATION
- FOSTER WHEELER SAMPLE LOCATION

#### NOTES:

- FOR BASE MAP INFORMATION REFER TO NOTES ON FIGURES 2 AND 3.
- SVOC CONCENTRATIONS REPORTED IN PARTS PER BILLION (PPB).
- SVOC - SEMI-VOLATILE ORGANIC COMPOUND
- DUP - DUPLICATE SAMPLE
- J - INDICATES AN ESTIMATED VALUE.
- ND - NOT DETECTED AT CONCENTRATIONS EXCEEDING LABORATORY DETECTION LIMITS.
- SHADED AND BOLD VALUES EXCEED NYSDEC GROUNDWATER STANDARDS AND/OR GUIDANCE VALUES PRESENTED IN TOGS 1.1.1.
- B-MW-03 WAS NOT SAMPLED DURING THE OCTOBER 2002 AND JUNE 2003 SAMPLING EVENTS DUE TO LACK OF WATER.
- MW-101R NOT SAMPLED DURING THE FEBRUARY 2005 SAMPLING EVENT DUE TO PRESENCE OF NON-AQUEOUS PHASE LIQUID (NAPL).



## NATIONAL GRID LITTLE FALLS (MILL STREET) NON-OWNED FORMER MGP SITE FINAL ENGINEERING REPORT

## DETECTED SVOC CONCENTRATIONS IN GROUNDWATER SAMPLES (PPB)



FIGURE

6

FLOW  
MOHAWK RIVER

MW-102R	
Date	4/11/2005
Acenaphthene	2.6 J
Anthracene	0.3 J
Dibenzofuran	0.3 J
Fluoranthene	1.3 J
Fluorene	0.8 J
Phenanthrene	1 J
Pyrene	0.9 J

MW-103R	
Date	2/7/2005
2,4-Dimethylphenol	1.1 J
2-Methylnaphthalene	5.8 J
2-Methylphenol	0.3 J
4-Methylphenol	0.2 J
Acenaphthene	6.5 J
Acenaphthylene	4 J
bis(2-Ethylhexyl)phthalate	16
Carbazole	7.2 J
Dibenzofuran	3.4 J
Fluoranthene	0.4 J
Fluorene	3.4 J
Naphthalene	130
Phenanthrene	2.7 J
Pyrene	0.3 J

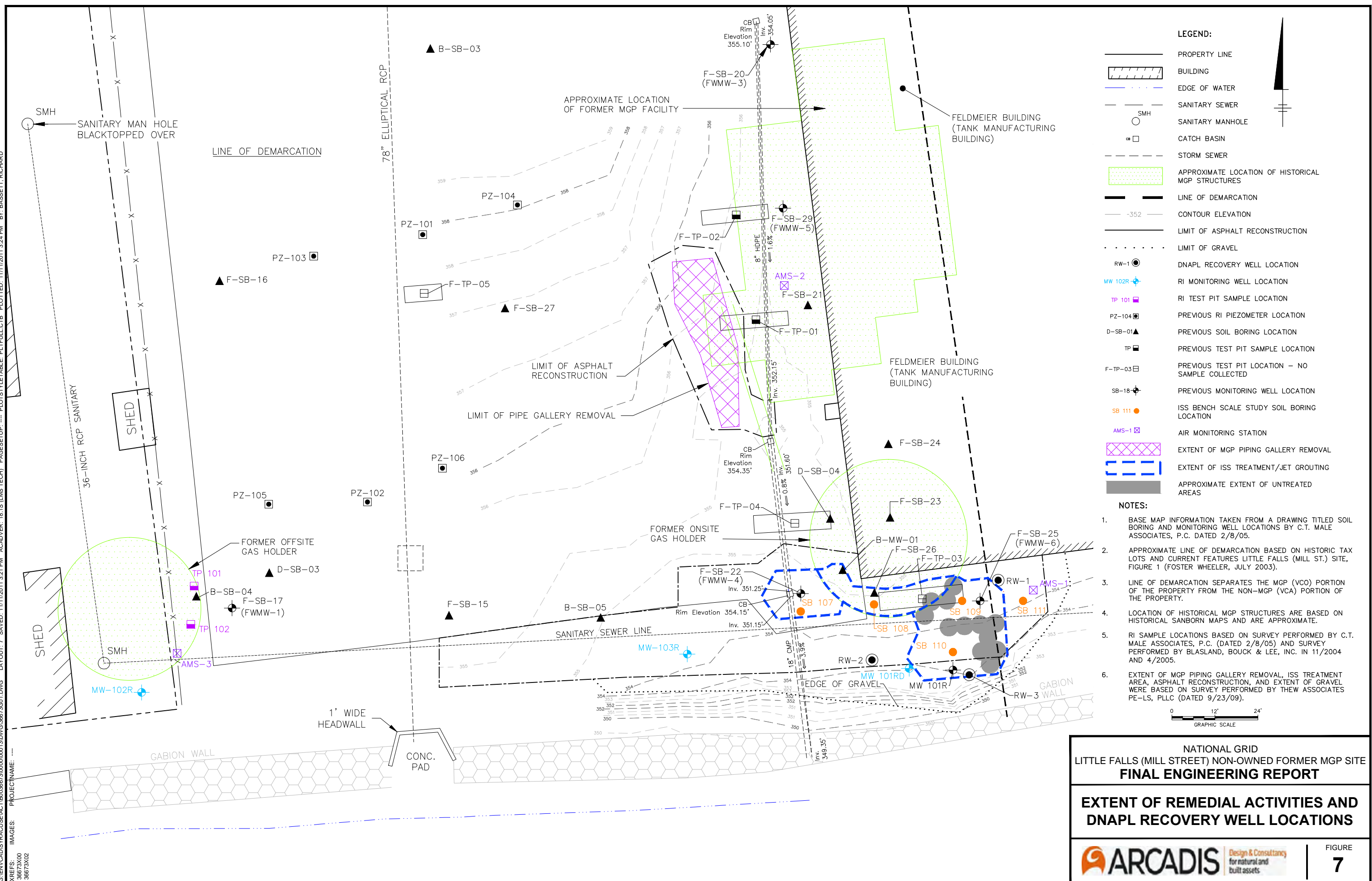
FWMW-4			
Date	10/30/2002	6/19/2003	2/8/2005
2,4-Dimethylphenol	0.4 J	ND	ND
2-Methylnaphthalene	3.8 J	ND	ND
2-Methylphenol	0.4 J	ND	ND
4-Methylphenol	0.4 J	ND	ND
Acenaphthene	1.7 J	0.7 J	1.8 J
Acenaphthylene	3.5 J	1.3 J	4.2 J
Anthracene	0.6 J	0.3 J	ND
Benzo(a)anthracene	ND	0.8 J	ND
Benzo(a)pyrene	ND	0.7 J	ND
Benzo(b)fluoranthene	ND	0.4 J	ND
Benzo(k)fluoranthene	ND	0.6 J	ND
Carbazole	4.0 J	1.1 J	3.4 J
Chrysene	ND	0.6 J	ND
Dibenzofuran	1.9 J	0.7 J	2.1 J
Fluoranthene	0.6 J	1.6 J	ND
Fluorene	2.4 J	0.6 J	2.4 J
Naphthalene	15	1.6 J	3.2 J
Phenanthrene	1.9 J	0.6 J	0.7 J
Pyrene	0.4 J	0.8 J	ND

MW-101RD	
Date	2/7/2005
2-Methylnaphthalene	51
Acenaphthene	47 J
Acenaphthylene	22 J
Anthracene	4.8 J
Carbazole	27 J
Dibenzofuran	31 J
Fluorene	32 J
Naphthalene	720
Phenanthrene	25 J

FWMW-4 DUP	
Date	2/8/2005
Acenaphthene	2.3 J
Acenaphthylene	5.7 J
Carbazole	4 J
Dibenzofuran	2.8 J
Fluorene	2.4 J
Naphthalene	3.1 J
Phenanthrene	0.9 J

FWMW-6			
Date	10/30/2002	6/19/2003	2/9/2005
2-Methylnaphthalene	13	ND	ND
2-Methylphenol	0.6 J	ND	ND
4-Methylphenol	1.5 J	ND	ND
Acenaphthene	49	23	1.4 J
Acenaphthylene	18	5.8 J	1.1 J
Anthracene	10 J	5.7 J	3.2 J
Benzo(a)anthracene	1.4	1.9	4.9
Benzo(a)pyrene	0.7 J	1.2	4.8
Benzo(b)fluoranthene	0.8 J	0.6 J	2.7
Benzo(g,h,i)perylene	0.3 J	ND	2.1 J
Benzo(k)fluoranthene	0.4 J	1.0 J	4.8
Carbazole	36	11	1 J
Chrysene	1 J	1.7 J	5.3 J
Dibenzofuran	29	11	1.8 J
Fluoranthene	5.3 J	4.9 J	6.9 J
Fluorene	42	16	2.3 J
Indeno(1,2,3-cd)pyrene	0.3 J	ND	1.8
Naphthalene	27	0.9 J	ND
Phenanthrene	36	13	5.5 J
Pyrene	4.4 J	3.8 J	7.3 J

CITY:SYRACUSE NY GROUP:ENV/CAD DB:W.JONES P LISTER A Schilling R Bassett PMT/MTR: M. JONES LYRON:--OFF-REF (FRZ)  
G:\ENV\CAD\SYRACUSE\ACT\18036673\00000001\3\DWG\36673501.DWG LAYOUT: T. SAVERD: 11/11/2011 3:21 PM ACADVER: 18.1S (LMS TECH) PAGES: 17 OF 17 PLOT: 11/11/2011 3:24 PM BY: BASSETT, RICHARD  
XREFS: 36673X00 36673X02  
IMAGES: PROJECTNAME: --





# APPENDIX A

Deed Notice and Proof of Filing







HERKIMER COUNTY – STATE OF NEW YORK  
SYLVIA M. ROWAN COUNTY CLERK  
109 MARY STREET, SUITE 1111, HERKIMER, NY 13350-2923

COUNTY CLERK'S RECORDING PAGE  
\*\*\*THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH\*\*\*



INSTRUMENT #: RP2018-4055

Receipt#: 392047  
Clerk: KC  
Rec Date: 08/29/2018 01:01:12 PM  
Doc Grp: RP  
Descrip: DEED MISCELLANEOUS  
Num Pgs: 7  
Rec'd Frm: ADVANTAGE ABSTRACT COMPANY LLC

Party1: 575 MILL STREET LLC  
Town: LITTLE FALLS C/O

Recording:

Cover Page	5.00
DECLARATION OF COVENANTS AND RESTRICTIONS	
Recording Fee	50.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75

Total: 75.00

\*\*\*\* NOTICE: THIS IS NOT A BILL \*\*\*\*

Record and Return To:

BARCLAY DAMON LLP  
125 E JEFFERSON ST  
SYRACUSE NY 13202-9801

WARNING\*\*\*

I hereby certify that the within and foregoing was recorded in the Herkimer County Clerk's Office, State of New York. This sheet constitutes the Clerks endorsement required by Section 316 of the Real Property Law of the State of New York.

Sylvia M. Rowan  
Herkimer County Clerk



# DECLARATION of COVENANTS and RESTRICTIONS

*125 E. Jefferson St  
Syracuse NY 13202-9801*

**THIS COVENANT** is made the 19 day of March 2018, by 575 Mill Street, LLC, a New York Limited Liability Company and having an office for the transaction of business at 6800 Townline Road, Syracuse New York 13211.

*Jean M. Lamson  
Barclay Damon LLP  
Barclay Damon Tower*

**WHEREAS**, the Little Falls (Mill Street) Non-Owned Former MGP Site (#V00470) is the subject of a Voluntary Consent Order executed by National Grid ("Remedial Party") as part of the New York State Department of Environmental Conservation's (the "Department's") Voluntary Cleanup Program, namely that parcel of real property located on Mill Street in the City of Little Falls, County of Herkimer, State of New York, which is part of lands conveyed by SPX Corporation, by merger with United Dominion Industries, Inc., by merger with Cherry-Burrell Company f/k/a Cherry-Burrell Corporation to 575 Mill Street, LLC by deed dated December 19, 2003 and recorded in the Herkimer County Clerk's Office in Book of Deeds 934 at Page 92 and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

**WHEREAS**, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

*R/R*

**NOW, THEREFORE**, 575 Mill Street, LLC, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), there shall be no construction, use or occupancy of the Property that results in the disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, which are described in the SMP, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv) without the express written waiver of such prohibition by the Department or Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment to render it safe for drinking water or for industrial purposes, as appropriate, and the user must first notify and obtain written approval to do so from the Department or Relevant Agency.

Sixth, the Remedial Party shall provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired.

Seventh, the owner of the Property and the Remedial Party shall continue in full force and effect any institutional and engineering controls required for the Remedy and maintain such controls, unless the owner first obtains permission to discontinue such controls from the Department or Relevant Agency, in compliance with the approved SMP, which is incorporated and made enforceable hereto, subject to modifications as approved by the Department or Relevant Agency.

Eighth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or Relevant Agency of the prohibitions and restrictions that the Voluntary Consent Order requires to be recorded, and hereby covenant not to contest the authority of the Department or Relevant Agency to seek enforcement.

Ninth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Department or Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

Tenth, to the extent there is any conflict or inconsistency between the terms of this Deed Restriction and the SMP, the terms of the SMP will control.

**IN WITNESS WHEREOF**, the undersigned has executed this instrument the day written below.

By: 

Print Name: ROBERT FELDMETER

Title: PRESIDENT Date: 3/19/2018


STATE OF NEW YORK )

) s.s.:

COUNTY OF Onondaga

On the 19 day of MARCH, in the year 2019, before me, the undersigned, personally appeared Robert Feldmeier personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DONNA M. RICHIE  
NOTARY PUBLIC STATE OF NEW YORK  
ONONDAGA COUNTY  
LIC. #01RI6057484  
COMM. EXP. 4/16/2019

  
Notary Public State of New York



Appendix "A"

**DESCRIPTION  
SITE MANAGEMENT PLAN  
LANDS NOW OR FORMERLY OF  
CHERRY BURRELL CORPORATION  
AND PORTION OF LANDS NOW OR FORMERLY OF  
CARTON FILLER ACQUISITION CORPORATION  
CITY OF LITTLE FALLS, COUNTY OF HERKIMER, STATE OF NEW YORK  
AREA = 1.36± ACRES OF LAND**

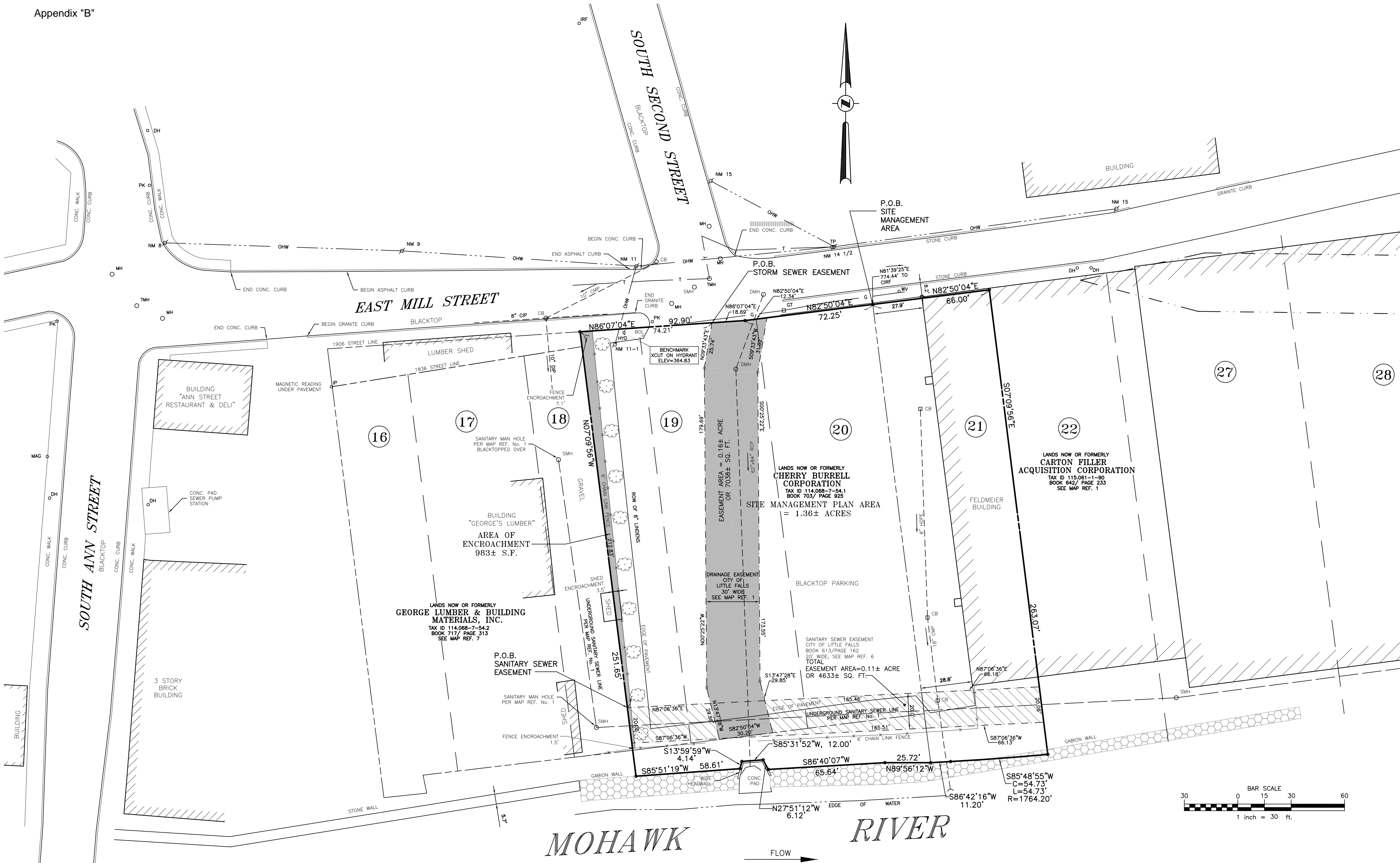
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All that certain tract, piece or parcel of land situate in the City of Little Falls, County of Herkimer, State of New York, lying Southerly of East Mill Street and Northerly of the Mohawk River, and being more particularly bounded and described as follows:

BEGINNING at a point at the intersection of the division line between the lands now or formerly of Cherry Burrell Corporation as described in Book 703 of Deeds at Page 925 on the West and the lands now or formerly of Carton Filler Acquisition Corporation as described in Book 742 of Deeds at Page 233 on the East with the Southerly boundary of East Mill Street (1906 street line) and runs thence from said point of beginning North 82 deg. 50 min. 04 sec. East along said Southerly boundary of East Mill Street 66.00 feet to a point; thence South 07 deg. 09 min. 56 sec. East through the said lands now or formerly of Carton Filler Acquisition Corporation and through a portion of an existing building 263.07 feet to the Mohawk River; thence along the Northerly boundary of the Mohawk River as it winds and turns the following eight (8) courses: 1) in a Westerly direction along a curve to the right having a radius of 1,764.20 feet, an arc length of 54.73 feet and a chord bearing of South 85 deg. 48 min. 55 sec. West 54.73 feet to a point; 2) South 86

deg. 42 min. 16 sec. West 11.20 feet to a point; 3) North 89 deg. 56 min. 12 sec. West 25.72 feet to a point; 4) South 86 deg. 40 min. 07 sec. West 65.64 feet to a point; 5) North 27 deg. 51 min. 12 sec. West 6.12 feet to a point; 6) South 85 deg. 31 min. 52 sec. West 12.00 feet to a point; 7) South 13 deg. 59 min. 59 sec. West 4.14 feet to a point; and 8) South 85 deg. 51 min. 19 sec. West 58.61 feet to its point of intersection with the division line between the said lands now or formerly of Cherry Burrell Corporation on the East and the lands now or formerly of George Lumber and Building Materials, Inc. as described in Book 717 of Deeds at Page 313 on the West; thence North 07 deg. 09 min. 56 sec. West along the last mentioned division line 251.65 feet to a point on the above mentioned Southerly 1906 street boundary of East Mill Street; thence along said Southerly street boundary the following two (2) courses: 1) North 86 deg. 07 min. 04 sec. East 92.90 feet to a point; and 2) North 82 deg. 50 min. 04 sec. East 72.25 feet to the point or place of beginning and containing 1.36 acres of land, more or less.

Appendix "B"



AREA = 1.36± ACRE SITE MANAGEMENT PLAN AREA

All that certain tract, piece or parcel of land situate in the City of Little Falls, County of Herkimer, State of New York, lying Southerly of East Mill Street and Northerly of the Mohawk River, and being more particularly bounded and described as follows:

BEGINNING at a point at the intersection of the division line between the lands now or formerly of Cherry Burrell Corporation as described in Book 703 of Deeds at Page 925 on the West and the lands now or formerly of Carton Filler Acquisition Corporation as described in Book 742 of Deeds at Page 233 on the East with the Southerly boundary of East Mill Street (1906 street line) and runs thence from said point of beginning North 82 deg. 50 min. 04 sec. East along said Southerly boundary of East Mill Street 66.00 feet to a point; thence South 07 deg. 09 min. 56 sec. East through the said lands now or formerly of Carton Filler Acquisition Corporation and through a portion of an existing building 263.07 feet to the Mohawk River; thence along the Northerly boundary of the Mohawk River as it winds and turns the following eight (8) courses: 1) in a Westerly direction along a curve to the right having a radius of 1,764.20 feet, an arc length of 54.73 feet and a chord bearing of South 85 deg. 48 min. 55 sec. West 54.73 feet to a point; 2) South 86 deg. 42 min. 16 sec. West 11.20 feet to a point; 3) North 89 deg. 56 min. 12 sec. West 25.72 feet to a point; 4) South 86 deg. 40 min. 07 sec. West 65.64 feet to a point; 5) North 27 deg. 51 min. 12 sec. West 6.12 feet to a point; 6) South 85 deg. 31 min. 52 sec. West 12.00 feet to a point; 7) South 13 deg. 59 min. 59 sec. West 4.14 feet to a point; and 8) South 85 deg. 51 min. 19 sec. West 58.61 feet to its point of intersection with the division line between the said lands now or formerly of Cherry Burrell Corporation on the East and the lands now or formerly of George Lumber and Building Materials, Inc. as described in Book 717 of Deeds at Page 313 on the West; thence North 07 deg. 09 min. 56 sec. West along the last mentioned division line 251.65 feet to a point on the above first mentioned Southerly 1906 street boundary of East Mill Street; thence along said Southerly street boundary the following two (2) courses: 1) North 86 deg. 07 min. 04 sec. East 92.90 feet to a point; and 2) North 82 deg. 50 min. 04 sec. East 72.25 feet to the point or place of beginning and containing 1.36 acres of land, more or less.

AREA = 0.11± ACRE SANITARY SEWER EASEMENT

All that certain tract, piece or parcel of land situate in the City of Little Falls, County of Herkimer, State of New York, lying South of East Mill Street and North of the Mohawk River, and being more particularly bounded and described as follows:

BEGINNING at a point on the division line between the lands now or formerly of Cherry Burrell Corporation as described in Book 703 of Deeds at Page 925 on the East and the lands now or formerly of George Lumber and Building Materials, Inc. as described in Book 717 of Deeds at Page 313 on the West, said point being situate South 07 deg. 09 min. 56 sec. East as measured along said division line, a distance of 212.83 feet from its point of intersection with the 1906 street line of East Mill Street and runs thence from said point of beginning through the said lands now or formerly of Cherry Burrell Corporation North 87 deg. 06 min. 36 sec. East 165.46 feet to a point on the division line between the said lands now or formerly of Cherry Burrell Corporation on the West and lands now or formerly of Carton Filler Acquisition Corporation as described in Book 642 of Deeds at Page 233 on the East; thence North 87 deg. 06 min. 36 sec. East through the said lands now or formerly of Carton Filler Acquisition Corporation 66.18 feet to a point on the Easterly site management plan line; thence continuing through the said lands now or formerly of Carton Filler Acquisition Corporation and along said Easterly site management plan line South 07 deg. 09 min. 56 sec. East 20.06 feet to a point; thence continuing through the said lands now or formerly of Carton Filler Acquisition Corporation South 87 deg. 06 min. 36 sec. West 66.13 feet to a point on the above first mentioned division line; thence along said above first mentioned division line North 07 deg. 09 min. 56 sec. West 20.06 feet to the point or place of beginning and containing 4,633± square feet or 0.11 acre of land, more or less

AREA = 0.16± ACRE DRAINAGE EASEMENT

All that certain tract, piece or parcel of land situate, lying and being in the City of Little Falls, County of Herkimer, State of New York, lying Southerly of East Mill Street and Northerly of the Mohawk River, and being more particularly bounded and described as follows:

COMMENCING at the point of intersection of the division line between the lands now or formerly of George Lumber & Building Materials, Inc. as described in Book 717 of Deeds at Page 313 on the West and the lands now or formerly of Cherry Burrell Corporation as described in Book 703 of Deeds at Page 925 on the East with the Southerly road boundary of East Mill Street (1906 street line); thence from said point of commencement North 86 deg. 07 min. 04 sec. East along the above mentioned division line 74.21 feet to the point or place of beginning and runs thence from said point of beginning the following two (2) courses: 1) North 86 deg. 07 min. 04 sec. East along the above mentioned Southerly road boundary of East Mill Street (1906 street line) 18.69 feet to a point; and 2) North 82 deg. 50 min. 04 sec. East 12.34 feet to a point; thence through the said lands now or formerly of Cherry Burrell Corporation the following three (3) courses: 1) South 09 deg. 33 min. 43 sec. West 31.02 feet to a point; 2) South 00 deg. 25 min. 22 sec. East 173.55 feet to a point; and 3) South 13 deg. 47 min. 28 sec. East 29.85 feet to a point on the Northerly boundary of the Mohawk River; thence South 82 deg. 50 min. 04 sec. West along said Northerly boundary of the Mohawk River 30.20 feet to a point; thence through the said lands now or formerly of Cherry Burrell Corporation the following three (3) courses: 1) North 13 deg. 47 min. 28 sec. West 29.88 feet to a point; 2) North 00 deg. 25 min. 22 sec. West 179.69 feet to a point; and 3) North 09 deg. 33 min. 43 sec. East 25.74 feet to the point or place of beginning and containing 7,038± square feet or 0.16 acre of land, more or less.

MAP REFERENCES

- "MAP SHOWING LANDS OF CARTON FILLER ACQUISITION CORPORATION FORMERLY CHERRY-BURRELL CORPORATION EAST MILL STREET PROPERTY CITY OF LITTLE FALLS COUNTY OF HERKIMER STATE OF NEW YORK" PREPARED BY SPENCER F. THEW, PE/LS, DATED DECEMBER 12, 1997.
- "MAP SHOWING SUBDIVISION OF ABANDONED WESTERN INLAND LOCK NAVIGATION CO. CANAL LANDS" DATED DECEMBER 1949, PREPARED BY H.W. JEWELL, AND DISTINGUISHED AS MAP NO. 383 AND FILED AT THE DEPARTMENT OF STATE.
- "MAP SHOWING SUBDIVISION OF ABANDONED WESTERN INLAND LOCK NAVIGATION CO. CANAL LANDS" DATED MARCH 22, 1955, PREPARED BY D. PORTER, AND DISTINGUISHED AS MAP NO. 415 AND FILED AT THE DEPARTMENT OF STATE.
- "MAP OF A PORTION OF ERIE CANAL LAND BELONGING TO THE STATE, MADE PURSUANT TO CHAPTER 199, LAWS OF 1910, AND AMENDATORY LAWS" DATED DECEMBER 5, 1917, PREPARED BY EDWIN HILBORN AND DISTINGUISHED AS MAP NO. 153 AND FILED AT THE DEPARTMENT OF STATE.
- "MAP SHOWING SUBDIVISION OF ABANDONED WESTERN INLAND LOCK NAVIGATION CO. CANAL LANDS" DATED MAY 11, 1932, PREPARED BY H.W. JEWELL, AND DISTINGUISHED AS MAP NO. 306 AND FILED AT THE DEPARTMENT OF STATE.
- "ATTACHMENT 1 OF SCHEDULE A, CHERRY-BURRELL CORP. EASEMENTS, INTERCEPTOR SEWER AND APPURTENANCES, CITY OF LITTLE FALLS" DATED MAY 26, 1971 AND FILED AS MAP NO. MM7A-19 IN THE HERKIMER COUNTY CLERK'S OFFICE ON JULY 14, 1971.
- "MAP SHOWING LANDS TO BE CONVEYED BY THE CITY OF LITTLE FALLS ON EAST MILL STREET" DATED APRIL 5, 1984, PREPARED BY JAMES E. THOMAS AND FILES AS MAP NO. SM414 IN THE HERKIMER COUNTY CLERK'S OFFICE ON NOVEMBER 12, 1985
- "MAP AND PLAN OF EAST MILL STREET, SHOWING CHANGE IN STREET LINES IN FRONT OF THE LANDS OF BARNET LEATHER CO." DATED APRIL 13, 1906, PREPARED BY SILAS S. FEETER, CITY ENGINEER, AND FILED IN MAP BOOK 7 AT PAGE 4 IN THE HERKIMER COUNTY CLERK'S OFFICE.
- "SOIL BORING AND MONITOR WELL LOCATIONS LANDS NOW OR FORMERLY OF CHERRY BURRELL CORPORATION AND A PORTION OF LANDS NOW OR FORMERLY OF CARTON FILLER ACQUISITION CORPORATION" CITY OF LITTLE FALLS, HERKIMER COUNTY, NEW YORK, PREPARED BY C.T. MALE ASSOCIATES, P.C. DATED NOVEMBER 18, 2004 AND REVISED TO FEBRUARY 8, 2005, PROJECT NO. 04.9661, DWG. NO. 04-731.

MAP NOTES

- INFORMATION SHOWN HEREON WAS COMPILED FROM AN ACTUAL FIELD SURVEY CONDUCTED ON SEPTEMBER 27-30, OCTOBER 1, AND NOVEMBER 18, 2002. MONITORING WELLS AND TEST PITS WERE FIELD LOCATED ON DECEMBER 9, 2002. NO TITLE RESEARCH OR FIELD UPDATE WAS PERFORMED FOR THE SITE MANAGEMENT PLAN.
- NORTH ORIENTATION AND BEARING BASE ARE GRID NORTH AS OBTAINED FROM GPS OBSERVATIONS ON OCTOBER 1, 2002.
- NORTH ORIENTATION AND BEARINGS ARE BASED ON THE NYS STATE PLANE COORDINATE SYSTEM, NEW YORK EAST ZONE, NAD 83. THE DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES. GRID LENGTHS MAY BE OBTAINED BY A MULTIPLIER OF 0.99989806 (COMBINED FACTOR).
- THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS, IF ANY EXIST, OR AS SHOWN HEREON, ARE NOT CERTIFIED. THERE MAY BE UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. DIO SAFELY NEW YORK MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.
- VERTICAL DATUM SHOWN HEREON IS NGVD 1988 AND WAS OBTAINED THROUGH GPS OBSERVATIONS ON OCTOBER 1, 2002.
- THE PURPOSE OF THIS SURVEY IS TO SHOW STRUCTURES AND IMPROVEMENTS RELATIVE TO PROPERTY LINES. PROPERTY CORNERS WERE NOT SET.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN UP TO DATE ABSTRACT OF TITLE OR TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, COVENANTS, RESTRICTIONS OR ANY STATEMENT OF FACT THAT SUCH DOCUMENTS MAY DISCLOSE.

LEGEND

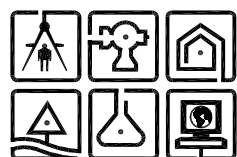
- o IP IRON PIPE
- o MAG MAG NAIL FOUND
- o DH DRILL HOLE FOUND
- o PK PK NAIL FOUND
- o CB o CB CATCH BASIN
- o DMH DRAINAGE MANHOLE
- o SMH SANITARY MANHOLE
- o MH MANHOLE
- o GT GAS TEST
- g — UNDERGROUND GAS LINE
- u — UTILITY POLE
- OHW — OVERHEAD WIRES
- o WV WATER VALVE
- o HYD FIRE HYDRANT
- o TMH TELEPHONE MANHOLE
- o TP TELEPHONE PEDESTAL
- T — UNDERGROUND TELEPHONE LINE
- (21) LOT NUMBER
- o CIRF CAPPED IRON ROD FOUND
- o IRF IRON ROD FOUND
- ) END SECTION

SITE MANAGEMENT PLAN AREA

LANDS NOW OR FORMERLY OF  
**CHERRY BURRELL CORPORATION**  
AND A PORTION OF LANDS NOW OR FORMERLY OF  
**CARTON FILLER ACQUISITION CORPORATION**  
PREPARED FOR ARCADIS U.S., INC.

**C.T. MALE ASSOCIATES**  
Engineering, Surveying, Architecture & Landscaping Architecture, P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110  
518.786.7400 \* FAX 518.786.7299



SHEET 1 OF 1  
DWG. NO: 12-339

**Lamson, Joan M.**

---

**From:** Sunser, Heather L.  
**Sent:** Thursday, March 08, 2018 8:56 AM  
**To:** Burns, Bradford D (DEC)  
**Cc:** Lamson, Joan M.  
**Subject:** RE: Deed Restriction NM - Little Falls MGP, Site # V00470 [IWOV-ACTIVE.FID1889330]

Thanks Brad. Grid was agreeable to the changes. Joan will get it ready for execution and work on getting it on record this month.

**From:** Burns, Bradford D (DEC) [mailto:bradford.burns@dec.ny.gov]  
**Sent:** Thursday, March 08, 2018 8:25 AM  
**To:** Sunser, Heather L.  
**Cc:** Lamson, Joan M.  
**Subject:** RE: Deed Restriction NM - Little Falls MGP, Site # V00470 [IWOV-ACTIVE.FID1889330]

Heather,

As long as Grid has no problem with this additional language, I am fine with the changes.

Thanks.

Brad

Bradford D. Burns, Senior Attorney  
NYS Dept of Environmental Conservation  
Office of General Counsel  
625 Broadway, 14th Floor  
Albany, NY 12233-1500  
Phone: (518) 402-9518  
Fax: (518) 402-9018  
[Bradford.burns@dec.ny.gov](mailto:Bradford.burns@dec.ny.gov)

This e-mail may contain information that is privileged or confidential. If this e-mail was clearly not intended for you or is in obvious error, please delete the e-mail and any attachments and notify me immediately.  
Thank you.

**From:** Sunser, Heather L. [mailto:HSunser@barclaydamon.com]  
**Sent:** Wednesday, March 07, 2018 4:13 PM  
**To:** Burns, Bradford D (DEC) <[bradford.burns@dec.ny.gov](mailto:bradford.burns@dec.ny.gov)>  
**Cc:** Lamson, Joan M. <[JLAMSON@barclaydamon.com](mailto:JLAMSON@barclaydamon.com)>  
**Subject:** RE: Deed Restriction NM - Little Falls MGP, Site # V00470 [IWOV-ACTIVE.FID1889330]

*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Hi Brad,

This site is part of the VCO program and the owner is ready to sign. I wanted to follow up and see if these minor changes were agreeable to DEC so we can have it signed ASAP.



Please feel free to call me with any questions or comments. Thanks.

**From:** Sunser, Heather L. [<mailto:HSunser@barclaydamon.com>]  
**Sent:** Friday, February 23, 2018 12:12 PM  
**To:** Burns, Bradford D (DEC)  
**Cc:** Lamson, Joan M.  
**Subject:** RE: Deed Restriction NM - Little Falls MGP, Site # V00470 [IWOV-ACTIVE.FID1889330]

Brad,

The attorney for the owner, Mill Street, LLC, asked us to add some language to the deed restriction regarding the Remedial Party. My client is agreeable to these changes.

Please review and let me know if the DEC is agreeable. Thank you.

**From:** Sunser, Heather L. [<mailto:HSunser@barclaydamon.com>]  
**Sent:** Tuesday, December 05, 2017 1:29 PM  
**To:** Burns, Bradford D (DEC)  
**Subject:** RE: Deed Restriction NM - Little Falls MGP, Site # V00470 [IWOV-ACTIVE.FID1889330]

Thank you. We will send the information to you as soon as it is available.

**Heather L. Sunser**

Partner

**BARCLAY DAMON** <sup>LLP</sup>

Barclay Damon Tower • 125 East Jefferson Street • Syracuse, NY 13202  
D: (315) 425-2796 • F: (315) 425-8578 • E: [HSunser@barclaydamon.com](mailto:HSunser@barclaydamon.com)

[barclaydamon.com](http://barclaydamon.com) • [vCard](#) • [Profile](#)

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---

**From:** Burns, Bradford D (DEC) [<mailto:bradford.burns@dec.ny.gov>]  
**Sent:** Tuesday, December 05, 2017 8:22 AM  
**To:** Sunser, Heather L.  
**Cc:** Merriman, Courtney M.; [Carolyn.Rooney@nationalgrid.com](mailto:Carolyn.Rooney@nationalgrid.com); Giordano, Joseph S.; Lamson, Joan M.  
**Subject:** Deed Restriction NM - Little Falls MGP, Site # V00470

Heather,

I have reviewed the proposed deed restriction package sent by your office on November 27, 2017 and it looks good except for one typo in the deed restriction. In the first "Whereas" paragraph, you have the page number of the deed into Mill Street, LLC as "Page 92&c". It should be "Page 92".

Other than that, the deed restriction is fine. Please have Mill Street, LLC execute the deed restriction, and forward me the indexing information once it is recorded.

Thanks.

Brad

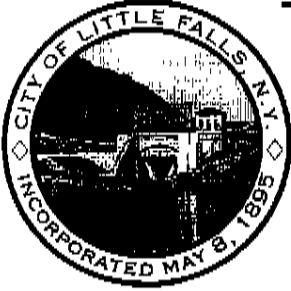
Bradford D. Burns, Senior Attorney  
NYS Dept of Environmental Conservation  
Office of General Counsel  
625 Broadway, 14th Floor  
Albany, NY 12233-1500  
Phone: (518) 402-9518  
Fax: (518) 402-9018  
[Bradford.burns@dec.ny.gov](mailto:Bradford.burns@dec.ny.gov)

This e-mail may contain information that is privileged or confidential. If this e-mail was clearly not intended for you or is in obvious error, please delete the e-mail and any attachments and notify me immediately.  
Thank you.

# APPENDIX B

Little Falls Zoning Letter





# CITY OF LITTLE FALLS, N.Y.

Office of

## CODES ENFORCER

659 E. Main Street • Little Falls, New York 13365

(315) 574-5250

April 18, 2019

To whom it may concern,

The following is the classification of the following property.

1. 545 East Mill St. tax # 115.61-1-90 Manufacturing 2
2. 575-585 east Mill St. tax # 115.61-1-91 Manufacturing 2
3. East Mill St. Tax # 114.68-7-54.1 Commercial 1

Manufacturing is one and the same as Industrial.

Philip Green

Codes & Zoning Officer

# APPENDIX C

SVI No Further Action Letter



366.73  
**New York State Department of Environmental Conservation**  
**Division of Environmental Remediation**  
Remedial Bureau C, 11th Floor  
625 Broadway, Albany, New York 12233-7014  
Phone: (518) 402-9662 • FAX: (518) 402-9679  
Website: www.dec.state.ny.us



June 1, 2006

James F. Morgan  
Lead Senior Environmental Engineer  
Environmental Affairs Department  
National Grid  
300 Erie Boulevard West  
Syracuse, New York 13202

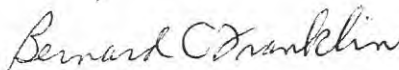
Re: Little Falls MGP Site V-00470-6  
Mill St., Little Falls, Herkimer County  
Subslab Vapor Sampling, RI Report

Dear Mr. Morgan:

The New York State Departments of Environmental Conservation and Health have reviewed the subslab vapor sampling results for the Feldmeier Building. It has been determined that further soil vapor investigation by National Grid is not required at this time. The Department will address the non-MGP related soil vapor contamination with the current building occupant. Barring any contradictory new data, this letter shall serve as notice that no further action is required by National Grid relative to on-site soil vapor investigation or remediation.

If you have any questions please call me at (518) 402-9662.

Sincerely yours,



Bernard Franklin  
Environmental Engineer  
Division of Environmental Remediation

---

cc: T. Young, National Grid  
C. Guest, BBL



# APPENDIX D

## Daily Field Reports



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/1/09  <b>Day of Week:</b> S (M) T W T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b> 	
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> PARTLY CLOUDY		<b>Temperature:</b> 58°F Min. 68° Max.

Contractor's Activities, Visitors, Remarks:
900AM: A. ENIGK ONSITE, T. SIOVILLE ONSITE UPON ARRIVAL.
- A. ENIGK & T. SIOVILLE REVIEWED PLANS FOR WORK ACT'S.
1030AM: 3 ROYAL WORKERS ONSITE W/ SITE TRAILER (SINGLE AXLE), & CUBE VAN W/ EQUIPMENT.
1100AM: T. SIOVILLE OFFSITE
- 2 WORKERS PLACED SITE TRAILER WHILE 1 ESTABLISHED INSIDE OF OFFICE.
1200 : LUNCH
1230 : WORKERS PLACED EROSION CONTROL (SILT FENCE) ALONG SW CORNER & REMOVED CH. LINK FENCE & BRUSH FROM AREA ADJACENT TO ISS.
1500 : WORKERS DONE FOR DAY.

6/1/09

**LABOR**

Classification	Prime		A		B		C		D	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours
SUPERVISOR	1	2.5								
AIR MONITOR / LABORER	1	4.5								
LABORER	↓	↓								
LABORER										

**EQUIPMENT**

Description Make/Size/Model No.	Not Used	Prime		A		B		C		D	
		No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours
2 MIXING STATIONS	X										
1 EQUIPMENT CONTAINER	X										
2 35 TON WHEELBILLOPS / HOPPER	X										
1 BULK HOPPER (BENT)	X										
5 CONTAINERS OF HOSE	X										
SITE TRAILER											

A is:

C is:

B is:

D is:

**MATERIAL**

Item No.	Description	Quantity	Item No.	Description	Quantity
	RUBBER HOSE				

PRIME: ROYAL



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/2/09  <b>Day of Week:</b> S M <u>T</u> W T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Contractor's Supervisor:</b> Todd Scoville
<b>Weather:</b> PARTLY CLOUDY		<b>Temperature:</b> <u>60°F</u> Min. ____ Max.

**Contractor's Activities, Visitors, Remarks:**

7:30 AM: A. ENIGK ONSITE, UPON ARRIVAL 3 ROYAL WORKERS & 5 GEO-SOL. WORKERS WERE ONSITE MOVING EQUIPMENT.

- A. ENIGK DISCUSSED WORK W/ JOHN THALL (GEO-SOL. SUPERVISOR)
- " " MARKED APPROX. LIMITS OF ISS AREA TO ALLOW FOR SILT FENCE INSTALLATION.
- GEO-SOLUTIONS WORKED ON MOVING EQUIPMENT FROM SW CORNER OF PARKING LOT TO ALLOW PM FOR INSTALLATION OF STAGING AREA.
- ROYAL MOVED DRUMS & WELL MATERIALS FROM ISS AREA TO APPROX. LOC. OF STAGING AREA & CONT'D INSTALL. OF SILT FENCE.

11:45: LUNCH - (ROYAL) OFFSITE

- ROYAL CONT'D INSTALLATION OF SILT FENCE & REMOVED TIRE FROM SKID STEER

1:30: A. ENIGK HAD CONF. CALL W/ M. JONES & A. EVANS TO DISCUSS FIELD ACTIVITIES & STABILIZATION PLAN.

1:30: T. SCHOVILLE OFFSITE TO LOOK FOR BANK-RUN-GRAVEL (BRG) / RUN-OF-BANK (ROB) SOURCE.

9:00 AM  
TODD SCHOVILLE ONSITE W/ TRAILER OF HAY BALES FOR STAGING AREA & VARIOUS EROSION / SED. CONTROL MEASURES.



6/2/09

**LABOR**

Classification	Prime		A		B		C		D	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours
SUPERVISOR	1	5								
AIR MONITOR / LABORER		4.5								
LABORER		7.5								
LABORER		7.5								
SUPERV.		<del>7.5</del>	1	8.5						
OPERATOR / LABORER										
RIG OPERATOR										
LABORER										
LABORER										

**EQUIPMENT**

Description Make/Size/Model No.	Not Used	Prime		A		B		C		D	
		No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours
SEE 6/1/09 LIST											
KOMATSU PC 50MR-MINI		1	1								
NEW HOLLAND LS-180 SKID STEER		1	3								
RIG-ALL C-80 CRANE				1	2						
SKY-TRAK 8042 FORKLIFT		1	8								

A is:

C is:

B is:

D is:

**MATERIAL**

Item No.	Description	Quantity	Item No.	Description	Quantity

PRIME: ROYAL

A: GEOSOLUTIONS

6/2/09 CONT'D

**Contractor's Activities, Visitors, Remarks:**

1345: T. SCOVILLE RETURNED, <sup>PICKED UP TRAILER,</sup> & LEFT FOR DAY @ ~ 1400P

1430  
~~1430~~ PM: CRANE ONSITE TO MOVE GEO-SOL. EQUIP.

- GEOSOLUTIONS MOVED EQUIP TRAILERS ~~W/ CRANE~~ & ASSEMBLED  
AUGER / DRILL RIG W/ CRANE.

1500 PM: ROYAL OFFSITE TO DELIVER SKID STEER TIRE  
FOR REPAIR.

1530 PM: CRANE OFFSITE

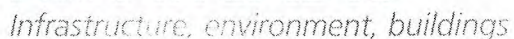
1600 PM: GEOSOLUTIONS & A. ENICK OFFSITE.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. <u>1</u> of <u>3</u> Sheets</b>  <b>Date:</b> 6/3/09  <b>Day of Week:</b> S M T <u>W</u> T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>  	
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> PARTLY CLOUDY WIND: OUT OF WEST		<b>Temperature:</b> 65°F Min. ____ Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
ONSITE : 715 AM : 2 ROYAL LABORERS, 5 GEO SOLUTIONS CREW, & A. ENIGK * H&S MTG W/ ALL HANDS.
730AM - GEO SOL. CONT'D CONSTRUCTING MIXING PLANT & RIG
900AM - TRK OFFLOADED PORTLAND CEMENT INTO BULK HOPPER
930AM - ADMAR DELIVERED BASKET LIFT & GENERATOR, T. SCOVILLE ONSITE
1000AM - PORTABLE TOILET DELIVERED.
- THEW ASSOCIATES ONSITE TO PERFORM SURVEY. MET W/ T. SCOVILLE & A. ENIGK TO DISCUSS SURVEY. GOT H&S BRIEFING.
- T. SCOVILLE PROVIDED RUN-OF-BANK (ROB) GRAVEL SAMPLE TO ARCADIS FOR ENV. ANALYSIS.

Page 3 of 3





## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/9/09  <b>Day of Week:</b> S M <u>T</u> W T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Contractor's Supervisor:</b> Todd Scoville
<b>Weather:</b> OVERCAST, RAIN		<b>Temperature:</b> 50°F Min. 65°F Max.

### Contractor's Activities, Visitors, Remarks:

6/9: A. ENICK, GEOSOLUTIONS (CREW OF 6), & ROYAL (CREW OF 4) ONSITE.

7:00 AM: H&S MEETING. DISCUSSED WORK AROUND HEAVY EQUIP.

7:15 AM: POSITIONED ISS/JOB PIG ON ISS AREA SOUTH OF BLDG.

8:00 AM: BERNIE FRANKLIN (NYSDEC) ONSITE. ROYAL DISCUSSED H&S OF SITE & HAD B.F. SIGN LOG TO ACKNOWLEDGE.

- GEOSOLUTIONS STARTED PREPARING GROUT MIXTURE IN BATCH STATION FOR USE DURING ISS. ROYAL POSITIONED MINI-EXCAV. TO ALLOW FOR REMOVAL OF SPOILS FROM ISS. ROYAL/GEOSOL./& ARCADIS DECIDED ON STARTING POINT FOR ISS... DECIDED ON S-17.

1030: STARTED ISS. ARCADIS/ROYAL/GEOSOL/& NYSDEC VERIFIED AUGER REFUSALS DURING ISS ACT'S & AGREED ON COMPLETION FOR APPLICABLE COLUMNS.

- ISS CONT'D UNTIL ~ 1530 PM, LOGS & NOTES FOR ISS WERE RECORDED BY ARCADIS & GEOSOL.

1530: COMPLETED ISS ACT'S FOR DAY

- ROYAL PERFORMED AIR MONITORING THROUGHOUT DAY.

- ROYAL USED RUBBER-TIRED BACKHOE AND MINI-EXCAVATOR TO TRANSFER SPOILS TO STAGING AREA.

- ~~ARCADIS~~ - MOST OF ISS AREAS WERE COMPLETED IN 17' & 15.5' AREAS. S-22 REFUSAL & JET GROUT AREAS REMAIN.



6/9/09

**LABOR**

Classification	Prime		A		B		C		D	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours

**EQUIPMENT**

Description Make/Size/Model No.	Not Used	Prime		A		B		C		D	
		No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours
CAT 330B EXCAVATOR	<del>WENT</del>	1									

A is:

C is:

B is:

D is:

**MATERIAL**

Item No.	Description	Quantity	Item No.	Description	Quantity



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012
<b>Contractor:</b> Royal Environmental		<b>Sheet No. 1 of 3 Sheets</b>
<b>Contract No.:</b>		<b>Date:</b> 6/10/09
<b>Contractor's Supervisor:</b> Todd Scoville		<b>Day of Week:</b> S M T <u>W</u> T F S
<b>Weather:</b> OVERCAST		<b>Temperature:</b> 59°F Min. 75°F Max.

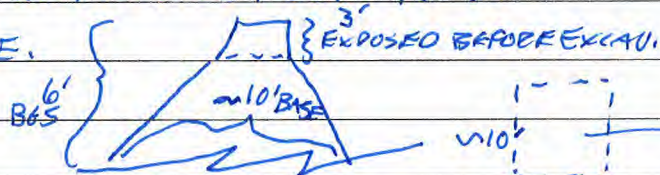
### Contractor's Activities, Visitors, Remarks:

6:55 AM: ARCADIS / GEO-SOL. / ROYAL ONSITE

7:00 AM: H&S Mtg w/ CREW → (using CAT 330B & MINI-EXC.)

7:15 AM: ROYAL STARTED EXCAV'G S-22 TO ATTEMPT TO REMOVE OBSTRUCTION CAUSING AUGER REFUSAL @ 9' BELOW WORKING PLATFORM. EXCAV. ACT'S CONT'D UNTIL 9:00 AM. THE OBSTRUCTION STARTED ABOVE GRADE ~3' & CONT'D SUBSURFACE ~6'. OBSTR CONSISTED OF CONCRETE (REINFORCED W/ WIRE & REBAR), STEEL, & ORANGE BRICK. IT CONTINUOUSLY GOT DEEPER IN THE SUBSURFACE. <sup>INCREASED IN DEPTH AS IT WENT DEEPER</sup>

8:00 AM B. FRANKLIN (NYSDEC) ONSITE  
9:00 DISCONTINUED OBST. DIG & CALLED ARCADIS MGT



9:30 AM: GEOSOLUTIONS CONT'D ISS IN 26.5' AREA WORKING AROUND OBSTRUCTION. HOWEVER, <sup>PREMATURE</sup> REFUSAL WAS ENCOUNTERED @ DEPTHS RANGING FROM 7.3' - 10.8' BELIEVED TO BE CONC. DEMO DEBRIS OR FORMER BUILDING FOOTER. TARGET DEPTH WAS ACHIEVED ONLY ON S-30 & S-29

9:30-11:30: ISS ACTIVITIES PERFORMED. THE 26.5' AREA WAS COMPLETED CONSIDERING MOST COLUMNS DID NOT ACHIEVE TARGET DEPTH.

-B. FRANKLIN OFFSITE. THE W ASSOCIATES ON-SITE TO SURVEY

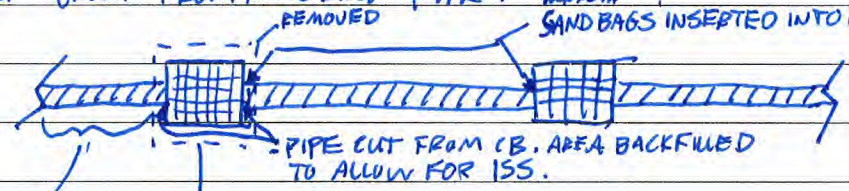
13' AREA. ~~THEY~~ ROYAL REMOVED ASPHALT OF

13' AREA ~~TO ALLOW~~ ~ 12" BBS FOR SURVEY & ISS ON 6/11/09.  
-1500P -A. ENICK OFFSITE.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/11/09  <b>Day of Week:</b> S M T W <u>T</u> F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Contractor's Supervisor:</b> Todd Scoville
<b>Weather:</b>		<b>Temperature:</b> ____ Min. ____ Max.

<b>Contractor's Activities, Visitors, Remarks:</b> 645 AM: ARCADIS (A. ENICK), ROYAL (SUPERV., 3 LABOR), & GEO-SOL. ONSITE (\$ SUPER, 1 OPER, 4 LABOR) 700 AM: H&S MEETING - ROYAL STARTED BY REMOVING THE STORM SEWER PIPING (18" STEEL) & CATCH BASIN LOCATED IN THE 13' ISS AREA. - ROYAL INSTALLED SANDBAGS IN STEEL PIPE OF UPGRADANT CATCH BASIN TO SLOW WATER FLOW IN CASE OF RAIN. THEN, ROYAL INSTALLED POLYSHEETING OVER PIPE OPENING TO KEEP GROUT FROM ENTERING PIPE. SKETCH:  ~ 800 AM: B. FRANKLIN ONSITE (NUSDEC) ~ 900 AM: M. JONES & A. EVANS (ARCADIS) & JIM MORGAN (N. GRID) ONSITE FOR MEETING - A. ENICK DISCUSSED SITE ACTIVITIES TO DATE & WALKED SITE W/ ARCADIS & GRID. ARCADIS PERFORMED LPO (M. JONES).	
---	--



**Contractor's Activities, Visitors, Remarks:**

~1015AM: GEOSOL. CONTINUED ISS ACTIVITIES @ SW CORNER OF BUDG. FIRST COUPLE COLUMNS WERE AUGERED TO VERIFY LOCATION OF HOLDER WALL. THEN, ISS ACT'S CONT'D FOR 13' AREA.

- ISS IN AREAS S3, S7 & S11 WERE NOT WORKING DUE TO OBSTRUCTIONS (AUGER REFUSAL). ROYAL ATTEMPTED TO EXCAVATE AREA W/ CAT 330 EXCAVATOR BUT ENCOUNTERED HARD FILL CONSISTING OF CONCRETE, LG. ROCK, BRICK & STEEL. GEOSOL. MOVED W/ OF LOCATIONS ABOVE & CONT.'D W/ ISS.

~1230P: J. MORGAN, M. JONES, A. EVANS & B. FRANKLIN OFFSITE FOR LUNCH.

1330P: B. FRANKLIN BACK ONSITE.

- ISS ACTIVITIES WERE CONTINUED THROUGHOUT AFTERNOON. MAJORITY OF COLUMNS IN 13' AREA WERE ACHIEVED (7 TOTAL).
- ONCE COMPLETED W/ ISS. GEOSOLUTIONS MOVED RIG & BEGAN RETROFITTING RIG W/ GET FRONTING UNIT.
- ARCADIS, ROYAL & GEOSOLUTIONS OFFSITE @ ~ 1600PM.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/18/09  <b>Day of Week:</b> S M T W T <u>F</u> S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b>		<b>Temperature:</b> 65°F Min. 78°F Max.

**Contractor's Activities, Visitors, Remarks:**

700: ARCADIS (A. ENIGK), ROYAL (1 SUPER & 3 LABOR), & GEOSOL. (1 SUPER, 1 OPER., & 4 LABOR) ONSITE. CONDUCTED 14 & 5 MJD.

- GEOSOL. WORKED ON RETROFITTING ISS RIG W/ JO. UNIT. TEMP. ST. SEWER
- ROYAL WORKED ON INSTALLING PIPE CONNECTING UPGRADANT CATCH BASIN TO OUTFALL PIPING. BACKFILLED TO GRADE AFTER COMPLETION.
- BLAST FURNACE SLAG DELIVERED. TRANSFERRED FROM RIG TO SILO/HOPPER.
- ROYAL REMOVED EXCESS GROUT FROM SOUTH OF BLDG & 13' AREA & PLACED IN 2<sup>nd</sup> CONTAINMENT / STAGING AREA.
- NO SET GROUTING DUE TO EXTENSIVE TIME TO RETROF. RIG.

1530P: A. ENIGK OFFSITE



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. <u>1</u> of <u>3</u> Sheets</b>  <b>Date:</b> 6/15/09
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S (M) T W T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b>		<b>Temperature:</b> ____ Min. ____ Max.

**Contractor's Activities, Visitors, Remarks:**

700 AM: (AENICK) ARCADIS, ROYAL (1 SUPER & 3 LABOR), & GEOSOL. (1 SUPER, 1 OPER., & 1 LABOR). BOB SHINDLER (GEOSOL.) ARRIVED IN AM ALSO.

- ROYAL STARTED WORK BY EXPOSING A SECTION OF THE 36" SAN. SEWER ON THE EAST SIDE OF THE 155/26. APPA. ROYAL THEN TOOK MEASUREMENTS OF THE TOP-OF-Pipe USING A LASER. THEY ALSO MEASURED THE ELEVATION OF THE EASTERN SAN. SEWER MANHOLE FOR REFERENCE. THE LASER WILL BE LEFT IN PLACE TO COLLECT ELEVATIONS DURING J6 ACTIVITIES.

845 AM: J6 ACTIVITIES STARTED. GEOSOL. INDICATED THEY WANTED TO START J6 AROUND SAN. SEWER FIRST. GEOSOL. PERFORMED PRE DRILLING OF J6 LOCATIONS W/ WATER FIRST TO DETERMINE IF THE APPROPRIATE DEPTH COULD BE REACHED. J6 LOCATIONS DRILLED TO THE APPR. DEPTH WERE REVISITED & JETGROUTED. ROYAL REMOVED EXCESS GROUT & SOIL MIX W/ THE R-TIEO BACKHOE & MINI EXC. & PLACED IN THE STAGING AREA.

AENICK SAMPLED GROUT FROM THE BATCH PLANT & FROM THE J6ING ACTIVITIES FOR U.S. (B. FRANKLIN & J. HERMAN) (NYSDEC) WASTE

~430 PM: ARC., GEOSOL., & ROYAL OFF-SITE FOR THE J6 ACTIVITIES



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/16/09
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M <u>T</u> W T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b>		<b>Temperature:</b> <u>70°F</u> Min. ____ Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
700 AM: ARCADIS (A. ENIGK), ROYAL (1 SUPER, 3 LABOR), GEOSOL. (2 SUPER, 1 OPER, 4 LABOR)
- CONDUCTED H&S MTS.
- STARTED MORNING BY CLEARING OVERBURDEN (GROUT / SOIL MIX) FROM PILING AREA & TRANSFERRED TO STAGING AREA. GEOSOL. WORKED ON PREPARING PIG FOR JB.
~ 800 AM - <del>B. FRANKLIN</del> D. HERMAN (NYSDOT) ON SITE.
~ 830 AM - ROYAL MOBILIZED CAT 330 EXCAVATOR TO ISS AREA SOUTH OF BLDG. W/ EXCAV. , ROYAL <del>EXCAV.</del> EXCAV. MATERIAL BETW. SAN. SEWER & BLDG. TO ATTEMPT TO FIND HOLDER WALL OF SUBSURFACE OBSTRUCTIONS. AN 10' W X 10' L X 8' D EXC. WAS ACHIEVED BUT NO HOLDER WALL WAS ENCOUNTERED. <sup>APPROX. MATE</sup> ROCK, CONCRETE, & BRICK WAS DISCOVERED. (w/ WATER)
~ 915 AM: GEOSOL. PROCEEDED W/ PRE-DRILLING ACTIVITIES TO PREP. FOR JB.
- AFTER PRE-DRILLING, GEOSOL. REVISITED AREAS WHERE FULL DEPTH WAS ACHIEVED & PERFORMED SET GRouting.
- JB WAS COMPLETED @ ~ 1400 PM FOR DAY, UNTIL AFTER SITE MTS ON 6/17/09.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> <u>1</u> of <u>  </u> Sheets  <b>Date:</b> <u>6/22/09</u>
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S <u>M</u> T W T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> <u>Sunny</u>		<b>Temperature:</b> <u>70°F</u> Min. <u>80°F</u> Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
<u>7:00 AM: A. ENI&amp;K (ARCADIS), GEOSOLUTIONS (1 SUPERV., 1 OPER., 2 LABOR), &amp; ROYAL (1 SUPERV., 2 LABOR).</u>
<u>- MEETING</u>
<u>- ROYAL WORKED ON RESTORATION OF ISS/J&amp;F AREAS WHILE GEOSOLUTIONS DISMANTLED ISS/J&amp;F EQUIP. TO DEMOBILIZE.</u>
<u>- A. ENI&amp;K DISCUSSED DISPOSITION OF REMAINING 15 TONS OF BLAST FURNACE SLAG &amp; 15 TONS OF PORTLAND CEMENT W/ GEOSOLUTIONS &amp; ROYAL. GEOSOLUTIONS ACCEPTED RESPONSIBILITY FOR THE WASTE/UNUSED MATERIAL &amp; ARRANGED FOR DUMP TRUCKS TO HAUL MATERIAL TO AWA LANDFILL. THE LANDFILL AGREED TO ACCEPT THE MATERIAL FOR USE IN THE LANDFILL PROCESSES.</u>
<u>A. ENI&amp;K DID NOT SIGN SHIPPING PAPERS (BOL), GEOSOLUTIONS HAULED <sup>&amp; DISPOSED OF</sup> MATERIAL. POLY SHEETING WAS ATTACHED TO THE DOWN SPOUTS &amp; THE SIDES OF THE TRUCKS CONSOLIDATING DUST DURING THE TRANSFER. AIR MONITORING WAS CONDUCTED THROUGHOUT DAY.</u>
<u>- GEOSOLUTIONS CONT'D DEMOB ACT'S THROUGHOUT DAY.</u>
<u>- ROYAL CONT'D RESTORATION ACTIVITIES.</u>



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 3 Sheets</b>  <b>Date:</b> 6/17/09
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M T <u>W</u> T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> PARTLY CLOUDY		<b>Temperature:</b> 65°F Min. 75°F Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
700 AM: A. ENIGK (ARCADIS), ROYAL (1 SUPERV., 3 LABOR), & GEOSOL (1 SUPER., 1 OPER.) & <del>LABOR</del> ONSITE - H&S MEETING
- ROYAL WORKED ON GRADING AREA SOUTH OF BLDG.
800 AM: B. FRANKLIN & D. HERMAN ONSITE. (NYSDEC)
915 AM: J. MORGAN (NYSDEC) & M. JONES (ARCADIS) ONSITE. - A. ENIGK WALKED SITE w/ MORGAN & NYSDEC.
1000 AM: DAVE WOODRUFF (ROYAL) ONSITE, * STARTED MTF IN CONF. RM. ~ 1015 AM NYSDOH JOINED MTF.
1045 AM: MTF COMPLETE, GEOSOLUTIONS STARTED J6 ACTIVITIES ON 2 LOCATIONS Delineated DURING MTF. ARCADIS, NYSDEC, & ROYAL AGREED ON FIELD MEASURED LOC'S FOR J6ING S-31, & SB-110. ~ <del>NOTICE</del> THE FULL DEPTH WAS ACHIEVED ONLY ON <del>SB-110</del> <sup>S-31</sup> S-31. <del>THIS 3/24/09</del> - NAPL NOTICED/OBSERVED BETW. 20'-24', NAPL OK.
1200 PM: J. MORGAN & M. JONES OFFSITE, <del>THIS 2/24/09 OFFSITE</del>
1230: GEOSOL. J6' EP S-31. ~ 1330 NYSDOH & NYSDEC OFFSITE.
~ 1430: J6 ACTIVITIES COMPLETED.
1630: GEOSOLUTIONS, ARCADIS & ROYAL OFFSITE.



SUBJECT:

POST ISS & JG MTD -

JOB NO:

BY:

DATE:

6/12/09

CHKD:

DATE:

PAGE

SHEET

ATTENDEES: JOHN THALL  
BILL PESNICK  
TODD SCOVILLE  
DAVE WOODRUFF  
ANDY ENIGK  
MIKE JONES  
JIM MORGAN  
DAVE HERMAN  
BERNIE FRANKLIN  
SCARLETT

VIA PHONE: ALLEN EVANS  
BOB SHINDLER  
NYSDEC - GEORGE

(NYS DOH)

START: 1000AM

- MIKE JONES GAVE BACKGROUND OF ISS DETERMINATION & PROGRESS TO DATE.

- NOTED DEPTH <sup>NOT ACHIEVED</sup> SOUTH OF PIPE

- NYSDEC CONCURRED THAT BEST EFFORT WAS ACHIEVED TO TREAT NAPL.

- NYSDEC INQUIRED ABOUT MAPPING BEDROCK. MCJ NOTED WE PROB. HAVENOT MAPPED ANY BETTER SOUTH OF SAN. SEWER (26.5' AREA)  
<sup>JUNCTION OF ALL 3 COLUMNS</sup>  
§19

- S-24, 25, 31, 32, ATTEMPT TO MATCH SB-110 & MW-101R

- NYSDEC OK W/ ATTEMPTING TO SOLIDIFY @ DB & WELL LOC'S.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> <u>1</u> of <u>  </u> Sheets  <b>Date:</b> <u>6/18/09</u>
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M T W <u>T</u> F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> <u>OVERCAST, RAIN</u>		<b>Temperature:</b> <u>60°F</u> Min. <u>76°F</u> Max.

Contractor's Activities, Visitors, Remarks:

700 AM: GEOSOLUTIONS & ROYAL ON SITE

- H&S MTH

715 AM: A. ENLICK <sup>U.A. ENLICK</sup> ON SITE.

- GEOSOLUTIONS WORKED ON DISMANTLING EQUIPMENT TO PREP. FOR DEMOBILIZATION.

- ROYAL WORKED ON RESTORATION ACTIVITIES & MAINLY WORKED ON PRESSURE WASHING & SCRAPING ~~FROM~~ THE SOUTHERN WALL OF THE FELD MEIER BLDG. TO REMOVE GROUT SPLATTER DURING THE ISS & JO ACTIVITIES.

- A. ENLICK & MIKE (ROYAL) DROVE TO HANSON GRAVEL PIT & COLLECTED A RUN-OF-CRUSHER GRAVEL SAMPLE FOR LABORATORY ANALYSIS AS ~~THE~~ <sup>A</sup> FILL SOURCE FOR RESTORATION (SECOND SAMP. SUBMITTED DUE TO 1ST BEING REJECTED).

- A. ENLICK OFFSITE TO DELIVER SAMPLE TO LAB. GEOSOLUTIONS WAS ALREADY OFFSITE. ROYAL CONT'D TO WASH WALL.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> <u>1</u> of <u>  </u> Sheets  <b>Date:</b> <u>6/23/09</u>
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M <u>T</u> W T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> <u>Sunny</u>		<b>Temperature:</b> <u>65°F</u> Min. <u>84°F</u> Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
<p style="text-align: right; margin-right: 50px;"><i>H&amp;S MTF.</i></p> <p>700AM: GEOSOLUTIONS, ROYAL &amp; ARCADIS ONSITE. <del>H&amp;S MTF.</del></p> <p>- GEOSOLUTIONS CONTINUED DEMOBILIZATION OF EQUIPMENT FROM THE SITE. EQUIPMENT WAS LOADED ON TO LOW-BY TRAILERS &amp; MISC. OTHER FLATBED TRUCKS W/ THE FORKLIFT &amp; A CRANE ( <span style="float: right;"><i>PROVIDED BY RIG-ALL.</i></span></p> <p>- ROYAL GRADED AREA SOUTH OF BLDG &amp; TRANSFERRED SPOILS / EXCESS SOIL TO THE STAGING AREA FOR DISPOSAL.</p> <p>- A. ENICK COLLECTED A WASTE CHARACTERIZATION SAMPLE (WC(SOIL)-2) FROM THE ACCUMULATED WASTE FROM THE ISS &amp; JF ACTIVITIES STAGED ONSITE.</p> <p>- GEOSOLUTIONS COMPLETED DEMOB @ ~12P &amp; OFFSITE. <span style="float: right;"><i>and ALL LABOR</i></span></p> <p>1300PM: ROYAL EXCAVATED A TEST PIT IN THE PROPOSED PIPING GALLERY TO 6' BGS. A. ENICK COLLECTED WASTE CHARACTERIZATION SAMPLE WC(SOIL)-1 FOR LAB ANALYSIS. SOIL WAS BLACK W/ HINT OF NAPL ODOR. PID OF HEADSPACE OF BAG = 0.4PPM. <span style="float: right;"><i>READING</i></span></p>



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of _</b> Sheets  <b>Date:</b> 7/8/09
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b> B0036673	<b>Day of Week:</b> S M T <u>W</u> T F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> PARTLY CLOUDY / CLOUDY W/ SHOWERS		<b>Temperature:</b> 59°F Min. 70°F Max.

**Contractor's Activities, Visitors, Remarks:**

645 AM: ROYAL (1 SUPERV., 2 LABOR) & ARCADIS (1 ENGR) ON SITE.

- H&S MEETING

- ROYAL STARTED WK BY DECONTAMINATING WORK AREA W/ ORANGE BARRELS & OR. CONST. FENCING. A WALKWAY TO SIDE POOR OF FELDMEIER WAS ALLOWED PER WORK PLAN. OVERHEAD POOR TO SOUTH BAY WAS CLOSED (AENIGK COORDINATED W/ SHOP FOREMAN, PETE)

745 AM: ROYAL STARTED EXCAVATING PAVEMENT/ASPHALT FROM PROPOSED PIPE GALLERY AREA W/ 330 B CAT EXCAVATOR.

\* AIR MONITORING STATIONS WERE PLACED BEFORE WORK STARTED.

- EXCAVATION OF PROPOSED PIPE GALLERY AREA PROCEEDED THROUGH

6" ASPHALT  
~ 15' 6" BGS GRAVEL CLEAN FILL  
4' CONCRETE, ORANGE BRICK,  
REBAR, STEEL, TIN, LG.  
FINDS TIMBER FILL MATERIAL

MORNING. TRUCKS WERE DIRECTLY LOADED W/ SOIL. 2 TRKS LOADED & EXPECTED TO "TURN" FOR ANOTHER LOAD IN AFTERNOON.

2' DARK MATERIAL, NO ODOR

900: ~ 3' PIECE OF 4" STEEL PIPE ENCOUNTERED @ ~ 6' BGS, NO VISIBLE STAINING

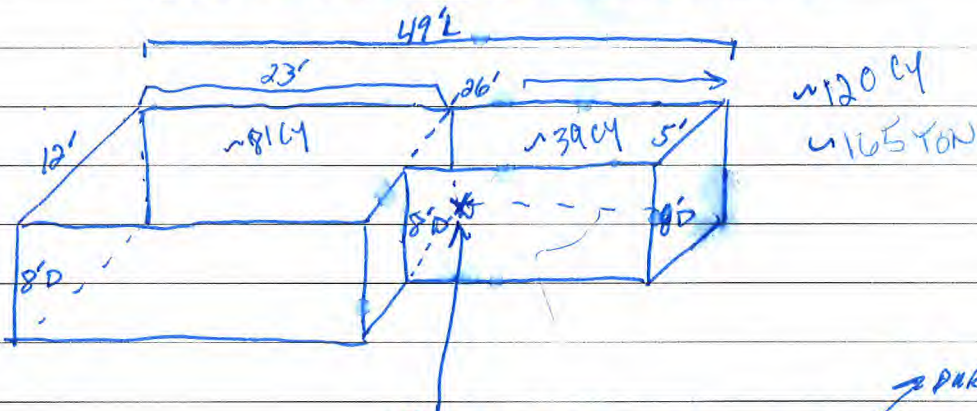


Contractor's Activities, Visitors, Remarks:

1210P: TRUCK BACK FROM LANDFILL FOR 2ND LOAD.

- AN ADD'L TRUCK ARRIVED @ SITE TO BE LOADED (TOTAL OF 3 TRKS)
- AFTER REMOVING APPROX. 12' FEET OF PIPING & <sup>STEEL</sup> CONDUITS IN A CLUSTER, NO PIPING WAS OBSERVED FOR APPROX 10'. THE FILL MATERIAL BEING REMOVED APPEARED 'CLEAN'. B. FRANKLIN (WYSDOT) & A. ENICK (ARCADIS) DETERMINED THAT NO ADD'L EXCAV. WAS REQUIRED. EXCAVATION ACTIVITIES WERE DISCONTINUED.

FINAL PIPE GALLERY EXC. DIMENSIONS



\* APPROXIMATE LOCATION OF PIPING CLUSTER

- SEVERAL ~~RED~~ READINGS WERE TAKEN ON PIPING & PIPE SOIL BUT ALL WERE 0.0 RPM.
  - ROYAL SECURED WORK AREA W/ CONSTRUCTION FENCING. P
- 1530P: TNEW ASSOCIATES ONSITE TO SURVEY EXCAVATION DIMENSIONS.

- ROYAL PLACED OVERBURDEN GRAVEL FROM ISS ACTIVITIES INSIDE & ADJACENT TO PIPE GALLERY EXCAVATION, ONCE COMPLETED, ~~THE~~ WORK WAS COMPLETED FOR DAY.



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> <u>1</u> of <u>  </u> Sheets  <b>Date:</b> <u>7/9/09</u>
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M T W <u>T</u> F S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b>		<b>Temperature:</b> <u>      </u> Min. <u>      </u> Max.

**Contractor's Activities, Visitors, Remarks:**

700 AM: ARCADIS (A. ENLICK) & ROYAL (1 SUPERV. & 2 LABOR) ONSITE  
 - H&S MTS.

- ROYAL WORKED ON LOADING OUT ISS/DG WASTE SOIL / GROUT MIX STAGED ON THE SOUTHERN EDGE OF THE PARKING LOT.

- MANGIARDI TRUCKING WAS ONSITE @ 7:10 AM TO START LOADING ACT'S. ONLY 1 TRK HAULING WASTE. TRK HAULING WASTE ALSO RETURNED W/ ROB GRAVEL TO BACKFILL PIPE GALLERY EXCAV. ROYAL SPREAD ROB GRAVEL INTO P.G. EXC. W/ 3RD CAT EXC. IN "12" OR LESS LIFTS & COMPACTED W/ A VIBRATORY ROLLER (DELIVERED WEEK OF 6/30/09 WHEN MINI EXCAVATOR WAS REMOVED FROM SITE)

- 1 ROYAL LABOR WORKED ON PRESSURE WASHING SW CORNER OF PARKING LOT TO REMOVE RESIDUAL GROUT FROM ISS/DG ACT'S.

- 5<sup>55-GAL</sup> DRUMS OF SOIL CUTTINGS WERE EMPTIED INTO STAGED SOIL & TRANSPORTED TO AVALANDFILL PER KICKOFF MTS. DISCUSSIONS W/ NYSDEC, N.G.P.D, ARCADIS, & ROYAL. "5.5, 55-GAL DRUMS OF DECON WATER & PURGE WATER WERE TRANSFERRED ~~FROM~~ INTO THE ONSITE POLY WASTEWATER TANK TO BE SAMPLED



7/9/09

Contractor's Activities, Visitors, Remarks:

& TRANSPORTED OFFSITE FOR DISPOSAL.

- TANK HAD ~1800 GALLONS OF WASTEWATER ACCUMULATED FROM ISS/JG ACTIVITIES, & WATER PUMPED FROM ~~WASTA~~ SOIL (PRECIP. WATER IN ISS/JG AREA) STAGING AREA.

~ EMPTIED DRUMS WILL BE FLATTENED W/ 320 TAT EXC. FOR OFFSITE DISPOSAL.

- EMAC 3 LOADS<sup>OF STAGED SOIL/GROUT WAS</sup> COMPLETED. NO SOIL REMAINING ON SITE.  
WASTE



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> <u>1</u> of <u>  </u> Sheets  <b>Date:</b> <u>7/10/09</u>
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Day of Week:</b> S M T W T <u>F</u> S
<b>Contractor's Supervisor:</b> Todd Scoville		
<b>Weather:</b> <u>SUNNY</u>		<b>Temperature:</b> <u>65°F</u> Min. <u>80°F</u> Max.

<b>Contractor's Activities, Visitors, Remarks:</b>
<u>700 AM : ROYAL (2 SUPER, 2 LABOR) ONSITE</u>
<u>800 AM : ARCADIS (A. ENICK) ONSITE</u>
<u>- ROYAL HAD LOCAL TRUCKING COMPANY HAULING FOB GRAVEL TO SITE FILLING PIPE GALLERY EXCAV. FOB WAS PLACED IN 4" LIFTS &amp; COMPACTED W/ VIB. ROLLER.</u>
<u>- ROLLOFF DELIVERED BY JIM BONNELL (PROVIDED BY OHCWA)</u>
<u>- 30CY ROLLOFF CONTAINER WAS DELIVERED TO PLACE WASTE POLY SHEETING, HAY BAGES, STEEL POSTS, CH. LINK FENCING, EMPTY 55-GAL DRUMS &amp; MISC. SITE TRASH FOR OFFSITE DISPOSAL.</u>
<u>- 4 LOADS OF FOB DELIVERED (16 CY EA.)</u>

12/11/09

## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> 1 <b>of</b> _ <b>Sheets</b>  <b>Date:</b> 7/14/09  <b>Day of Week:</b> S M T W T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Weather:</b> PARTLY CLOUDY
<b>Contractor's Supervisor:</b> Todd Scoville		
		<b>Temperature:</b> 60°F Min. 70°F Max.

<b>Contractor's Activities, Visitors, Remarks:</b> 300 A : ROYAL (1 SUPER & 1 LABOR) & ARCADIS ONSITE - H&S MTS. - T. SCOVILLE, A. ENICK & E. FLOY (PELOMEIER) DISCUSSED ISS/JO AREA RESTORATION. A. ENICK RECEIVED APPROVAL FROM J. MORGAN VIA A. EVANS & M. JONES TO ALLOW PAVING THE ISS/JO AREAS.  - ROYAL WORKED ON REMOVING TEMPORARY DRAIN FROM ISS/JO AREA IN PARKING LOT & RESTORING REMOVED CATCH BASIN & CMP. CMP DAMAGED DURING REMOVAL WAS REPLACED W/NEW. (BASIN & PIPING WAS BACKFILLED W/ROB GRAVEL.  - 1 LOAD OF ROL STONE WAS DELIVERED TO SITE FROM HANSON P.T.
---



## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No. 1 of 1 Sheets</b>  <b>Date:</b> 7/15/09  <b>Day of Week:</b> S M T <u>W</u> T F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Contractor's Supervisor:</b> Todd Scoville
<b>Weather:</b> <del>WINDY / WET</del> PARTLY CLOUDY / SUN		<b>Temperature:</b> <del>65°F</del> Min. <del>73°F</del> Max.

**Contractor's Activities, Visitors, Remarks:**

800 AM : ROYAL (1 SUPERV. & 2 LABOR) ONSITE

- ROYAL STARTED BY PLACING MASONARY BLOCKS & MORTAR AROUND RE-INSTALLED ST. SEWER @ CBASIN OPENING. INLET & OUTLET PIPE WERE BLOCKED & MORTARED AS NECESSARY. ONCE COMPLETE, THE PIPES WERE BACKFILLED W/ ROB GRAVEL TO "12" FROM GRADE. THE REMAINING 12" WAS FILLED W/ ROC STONE & COMPACTED W/ VIBRATORY ROLLER.

- REMAINDER OF AFTERNOON, ROYAL WORKED ON REMOVING CHAINLINK FENCING & POSTS ALONG SOUTHERN EDGE OF PARKING LOT.  
T. SCOVILLE & A. ENICK OFFSITE @ ~ 1500PM.  
ROYAL OFFSITE ~ 1600PM

## CONSTRUCTION ACTIVITIES REPORT

<b>Project:</b> Little Falls (Mill St.) Non-Owned Former MGP Site Remedial Activities Little Falls, New York		<b>File No.:</b> B0036673.0000.00012  <b>Sheet No.</b> 1 <b>of</b> _ <b>Sheets</b>  <b>Date:</b> 7/16/09  <b>Day of Week:</b> S M T W <u>T</u> F S
<b>Contractor:</b> Royal Environmental	<b>Contract No.:</b>	<b>Contractor's Supervisor:</b> Todd Scoville
<b>Weather:</b> OVERCAST / HEAVY RAIN TO PARTLY CLOUDY		<b>Temperature:</b> 65°F Min. 83°F Max.

**Contractor's Activities, Visitors, Remarks:**

8:00 AM ROYAL (1 SUPER. & 1 LABOR) & ARCADIS (1 ENGINEER) ONSITE

- ROYAL WORKED ON REMOVING REMAINING POSTS OF CH. LINK FENCE.
- REMAINING ROB GRAVEL WAS PLACED IN 15E/30F AREA.
- CONCRETE WELL COVER TO MW-101 R WAS REMOVED & A SCH-40 PVC RISER WAS PLACED ON WELL. WELL CASING WAS BACKFILLED AROUND. P. WOLFF EXPECTED TO COMPLETE WELL CASING INSTALLATION @ A LATER DATE.



# APPENDIX E

## In-Situ Soil Stabilization Treatability Study Report



July 14, 2008

Mr. Bernard Franklin  
Project Manager  
Remedial Bureau C  
Division of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233-7014

Re: National Grid  
Little Falls (Mill Street) Non-Owned Former MGP Site  
Little Falls, New York  
In-Situ Soil Stabilization Treatability Study Report  
VCO Index No. D0-0001-0011  
Site No. V00470

Dear Mr. Franklin:

This report summarizes the results of an in-situ soil stabilization (ISS) bench-scale treatability study which was conducted at the National Grid Little Falls (Mill Street) non-owned former manufactured gas plant (MGP) site (the "site") located in Little Falls, New York. The ISS bench-scale treatability study was conducted in accordance with the *In-Situ Soil Stabilization Treatability Study Work Plan* (TSWP) that was submitted to the New York State Department of Environmental Conservation (NYSDEC) in a March 31, 2008 letter from National Grid. The treatability study activities included the completion of four soil borings to obtain representative soil samples for testing purposes and bench-scale testing to evaluate and select the mix design for the in-situ soil stabilization (ISS) and jet grouting activities that will be conducted as part of the final remedial measures at the site. In addition to the collection of representative soil for treatability testing, an additional soil boring was advanced to evaluate the potential presence of non-aqueous phase liquid- (NAPL-) impacted soil to the east of the Line of Demarcation.

A site plan which shows the layout of the Little Falls (Mill Street) non-owned former MGP site, ISS treatment area, and boring locations is presented on Figure 1. The soil boring and ISS bench-scale treatability testing activities are detailed below.

### **Completion of Soil Borings**

To obtain representative soil samples for the bench-scale testing and evaluate the presence of NAPL-impacted soil to the east of the Line of Demarcation, a total of five soil borings (soil borings SB-107 through SB-111) were completed at the locations shown on Figure 2.

Appropriate utility-locating agencies were contacted (e.g., Dig Safe New York) prior to the start of intrusive activities to identify and mark the locations of known subsurface utilities in the vicinity of the proposed sampling locations. The City of Little Falls Department of Public Works conducted a site visit to verify the location of the shallow sanitary sewer line located along the western edge of the manufacturing building. Additionally, all boring locations were hand cleared to a depth of five feet below ground surface (bgs) to identify any subsurface utilities.

Subsurface drilling activities were completed by Parratt-Wolff, Inc. (Parratt-Wolff) located in East Syracuse, New York. Drilling was conducted with a truck-mounted drill rig using the hollow-stem auger drilling method. Soil samples were collected continuously to bedrock or auger refusal (which ever was encountered first) at each boring location using a standard 2-inch outer diameter (OD) by 2-foot long split barrel sampler advanced in accordance with American Society for Testing and Materials (ASTM) Method D1586. Each recovered soil sample was visually classified for soil type, grain size, texture, and the general presence of NAPL, staining, odors, or MGP-residuals, and a portion of each sample was placed in a container for headspace screening of organic vapors using a photoionization detector (PID).

Soils encountered in SB-107 through SB-110 were relatively consistent and were composed primarily of fine to medium sand with fine gravel. No MGP residuals or noticeable odors were encountered in soil borings SB-107 through SB-109, however MGP residuals were observed at soil boring location SB-110 between the depths of 21 through 26.4 feet bgs. The impacted soil in SB-110 correlates with the observed NAPL at monitoring well location MW-101R which was installed as part of the Remedial Investigation (RI) for the site.. In addition, the highest soil headspace screening concentration (using a PID) was 442 ppm encountered in SB-110 at the interval from 21 to 23 feet bgs. Soil logs for all boring locations included in Attachment A.

The continuous soil samples recovered from soil borings SB-107 through SB-110, were composited along with the additional soil from the drill cuttings to obtain enough sample from each soil boring location for the treatability testing. A total volume of approximately 0.7 cubic feet of soil (one 5-gallon container) was collected from the anticipated zone of treatment at each soil boring location. ARCADIS field personnel collected the most heavily-impacted material encountered at each boring location based on visual observations, odors, and/or PID screening. Each 5-gallon container of soil was securely packaged and shipped by express delivery courier to Geo-Solutions, Inc. (Geo-Solutions) for laboratory testing. Concurrent with the collection of soil samples for treatability testing, approximately ten gallons of the municipal tap water from the site was also collected and shipped to Geo-Solutions for subsequent use during the bench-scale testing.

Soil boring SB-111 was completed to evaluate whether NAPL-impacted soil is present to the east of the Line of Demarcation. The location of soil boring SB-111 is shown on Figure 2. Soil samples from soil boring SB-111 were collected continuously and visually characterized to the depth of auger refusal at 13.8 feet bgs. No MGP residuals or noticeable odors were encountered in soil borings SB-111. The highest soil headspace screening concentration (4.2 ppm) was encounter at boring SB-111 at the interval from 5 to 7 feet bgs. Soil from SB-111 consisted primarily of fine to medium sand with fine gravel. No soil samples were retained or submitted for laboratory analysis from soil boring SB-111. The soil boring log for boring SB-111 is included in Attachment A.

Following completion of the drilling activities, each soil boring was tremie-grouted to the ground surface with a cement-bentonite grout. Drilling and sampling equipment was decontaminated prior to beginning drilling activities, between each soil boring location, and prior to demobilization from the site.

Excess soil generated by the drilling operations, disposable equipment, and debris, such as health and safety equipment, plastic sheeting, sampling equipment, and other equipment that was not reused were placed into Department of Transportation- (DOT-) approved steel 55-gallon drums. Decontamination rinsate was also containerized in DOT-approved steel drums. All generated waste was staged along the western portion of the manufacturing building and will be transported for off-site disposal/treatment in accordance with applicable regulations.

### **Bench-Scale Testing**

The composite soil samples from soil borings SB-107 through SB-110 and a representative sample of the municipal water source available at the site was submitted to Geo-Solutions for bench-scale testing. As described in the TSWP, the objective of the bench-scale testing was to identify an appropriate mix design to reduce hydraulic conductivity and leachability, and to demonstrate chemical compatibility with constituents of concern (COC) at the site. The Geo-Solutions Laboratory Design Mix Testing Report describing test methodology and results is included as Attachment B to this letter. Specifically, the ISS and jet grouting mix designs were evaluated based on the following criteria:

- Reduction in the hydraulic conductivity of the soil matrix resulting from treatment. The reduction in the hydraulic conductivity of the treated soil matrix will result in a corresponding reduction in the potential leachability of COCs within the soil matrix. In-situ hydraulic conductivity measurements obtained from overburden groundwater monitoring wells at the site during the RI ranged from  $1.14 \times 10^{-4}$  centimeters per second (cm/sec) to  $5.56 \times 10^{-4}$  cm/sec. The target hydraulic conductivity for the treated soil matrix following addition of mixing reagents was approximately  $1 \times 10^{-6}$  cm/sec or less.
- Physical properties of the treated soil. The treated soil matrix will need to have suitable physical properties to withstand anticipated future site activities and surface/subsurface loads without settling or deterioration. The target 28-day unconfined compressive strength (UCS) of the treated soil matrix was approximately 50 pounds per square inch (psi).

Upon receipt at the laboratory, Geo-Solutions visually characterized the soil collected at each boring location. Material larger than 0.5 inches were removed from the samples in order to comply with standard laboratory protocols for sample size. Based on the visual characterization of the soil samples, Geo-solutions segregated the soil borings into two samples. The primary sample used for the stabilization testing was comprised of a composite sample from soil borings SB-107 through SB-109. The second sample was from SB-110 which included a higher percentage of coarse grained material, gravel/debris larger than 0.5 inches, and obvious contamination. Soil boring SB-110 was considered the worst case scenario by Geo-Solutions as it contained more coarse grained material and NAPL.

Following the visual characterization of the soil, Geo-Solutions conducted chemical and physical analysis on the two samples. The untreated composite soil sample (from soil borings SB-107 through SB-109) was characterized for the following chemical and physical parameters:

- pH (Hach Test Kit)
- Grain Size (ASTM D422)
- Plasticity (ASTM D4318)
- Classification (ASTM D2487)
- Fines (ASTM D1140)
- Loss Of Ignition (ASTM D2974)
- Moisture Content (ASTM D2216)

Following physical characterization of the soil, Geo-Solutions prepared seven grout mixtures (four ISS mixtures and three jet grout mixtures) with several reagents mixed at different percentages as presented in the table below.



<b>Trial Mix Number</b>	<b>Mix Type</b>	<b>Reagent Type</b>	<b>Reagent Addition (%)</b>	<b>Water Added (%)</b>
SSM1	ISS	BFS/PC/Bentonite	6/2/0.5	18.2
SSM2		BFS/PC/Bentonite	3/7/0.5	17.5
SSM3		PC/Bentonite	10/0.5	16.7
SSM4		PC/Bentonite	7/0.5	15.6
JG5	Jet Grout	PC/Bentonite	10/0.5	33.3
JG6		BFS/PC/Bentonite	4.29/10/0.5	28.5
JG7		BFS/PC/Bentonite	18.75/6.25/0.5	25
SSM8*	ISS	PC/Bentonite	7/0.5	15.4
<b>Notes:</b> 1. * - Mix SSM8 was performed after initial testing of first seven trial mixes. 2. BFS – Blast Furnace Slag 3. PC – Portland Concrete 4. Bentonite – Bentonite Clay 5. Reagent addition percentage based upon total soil weight				

Reagents used during the mix design testing included municipal water from the Site, federal bentonite clay, blast furnace slag cement (BFS), and portland cement. Municipal water was collected from the Site and shipped to the laboratory as described above. The remaining reagents were obtained from commercial sources within the past year and stored as laboratory stock. The grout mixes were analyzed for the following:

- Viscosity, Density, pH, Temperature (API RP 13B)
- Grout Bleed (ASTM C940)
- Set Time (ASTM D403/C953)

After testing the soil and grout, Geo-Solutions mixed the grout mixtures with portions of the composite soil sample and prepared cylindrical specimens for testing. Following mixing, each soil/cement mixture was tested for the following physical properties:

- Slump and Density (ASTM D143 Modified)
- pH and Temperature (API RP 13B)
- Moisture Content (ASTM D 2216/2937)
- Penetration Resistance (ASTM D1558)
- Hydraulic Conductivity (ASTM D5084)
- Unconfined Compressive Strength (ASTM D1633/D4832)

One additional soil grout mixture was prepared using soil from SB-110 following review of the 7-day UCS test results and hydraulic conductivity for the composite soil ISS mixtures. Based upon these preliminary results, a soil cement mixture for the SB-110 soil was prepared using a grout mixture with 7% cement and 0.5% bentonite (test mix SSM4) that had previously exhibited a UCS and hydraulic conductivity for the composite sample that exceeded the project objectives.

All of the mixtures except for one jet grout mixture (JG5) and the SB-110 ISS mixture (SSM8) produced 28 day UCS results exceeding 50 psi after only 7 days. Jet grout mixture JG5 was not acceptable for use based

on free water that was observed in the mix after preparation and further UCS testing was not performed. The SB-110 mixture had a 28 day UCS strength was 45 psi, slightly below the design criteria.

All of the mixtures except with the soil from SB-110 produced acceptable permeability test results of less than  $1 \times 10^{-6}$  cm/sec. The SB-110 mixture produced a marginal permeability of  $2.2 \times 10^{-6}$  cm/sec.

### **Conclusions**

Based on the results of the bench scale testing two final mix designs were developed for the site, One mix for jet grouting and one mix for ISS treatment:

- Jet Grout mix of 4.29% BFS/10% cement/0.5% bentonite (% based upon total soil weight) for use below the existing sanitary sewer pipeline.
- ISS mix of 10% cement/0.5% bentonite for use in all ISS Areas.

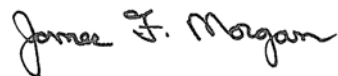
Increasing the cement content to 10% in the ISS mix will likely increase the UCS strength and produce an acceptable hydraulic conductivity of approximately  $1 \times 10^{-6}$  cm/sec for all soils encountered at the site (including the worst case soil collected at soil boring SB-110). Concurrent with the development of the Technical Specifications for ISS and Jet Grouting Treatment, Geo-Solutions will perform an additional ISS test mixture at the proposed 10% cement/0.5% bentonite mix using soils from SB-110 to confirm that the mix meets the hydraulic conductivity and UCS strength design criteria.

### **Schedule**

Based on the project schedule previously discussed with the NYSDEC (as incorporated into the NYSDEC's March 11, 2008 letter that approved the RAWP), it is assumed that the NYSDEC will review and approve the treatability study summary report within approximately two to three weeks. National Grid will prepare technical specifications for ISS/Jet Grouting treatment and submit a revised Technical Specifications Document (incorporating the NYSDEC comments on the Draft Technical Specifications) by July 28, 2008. Based on this schedule, National Grid plans to complete the bidding process and award the contract by September 15, 2008.

Please contact me at (315) 428-3101 if you have any questions or require additional information.

Sincerely,

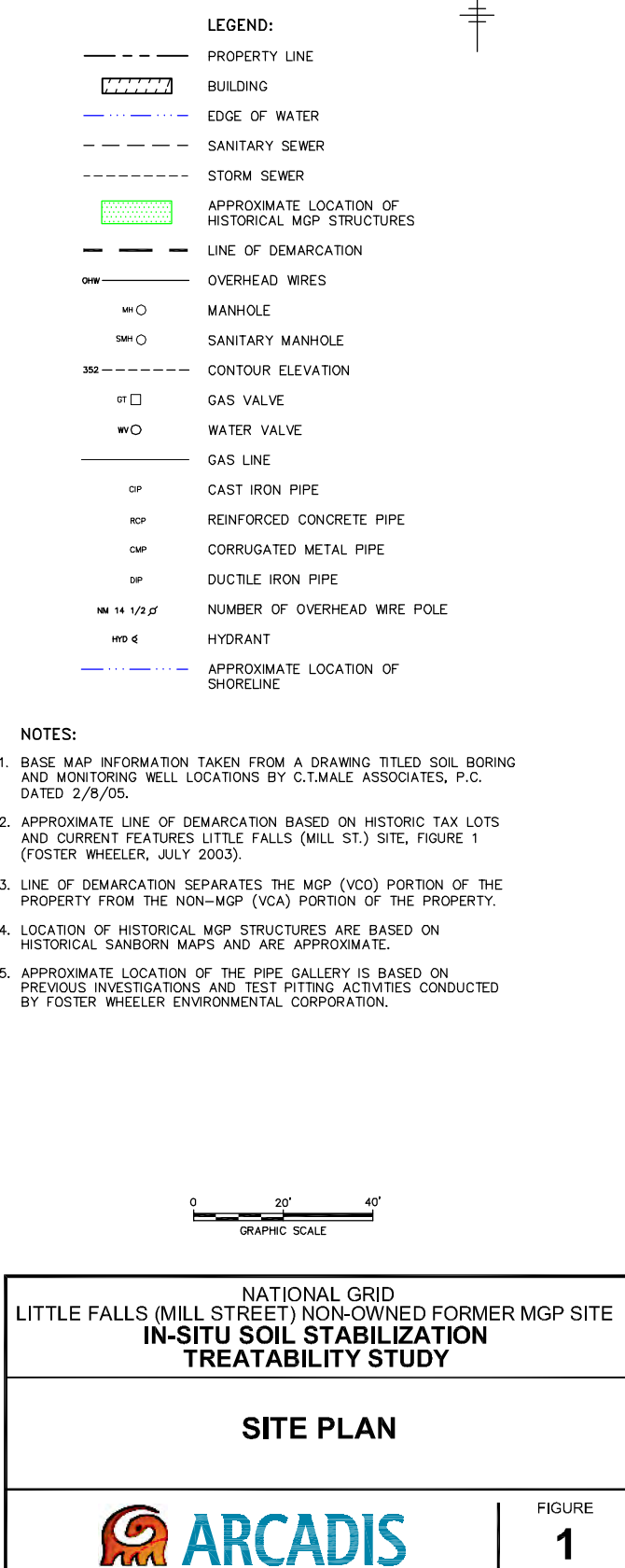
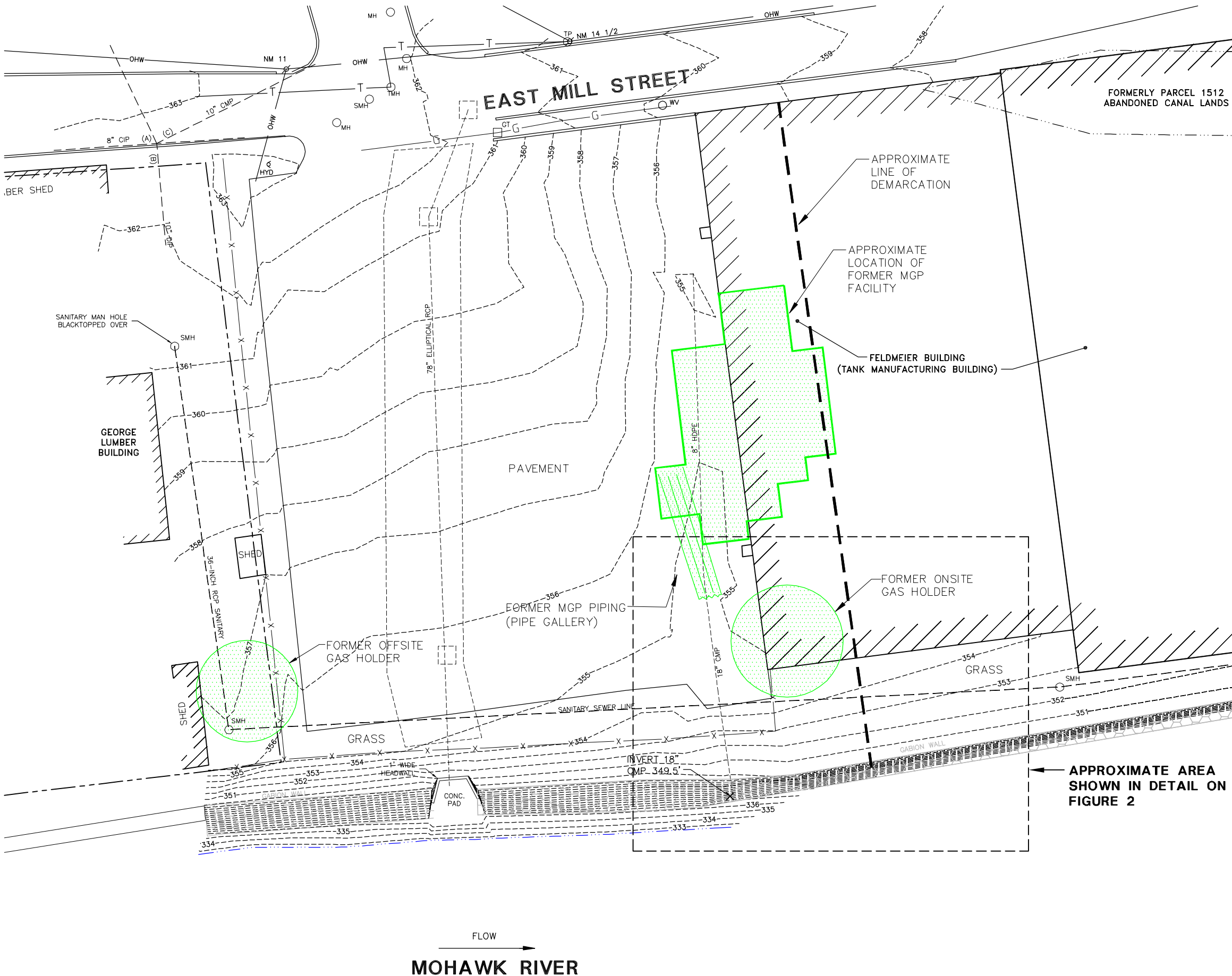


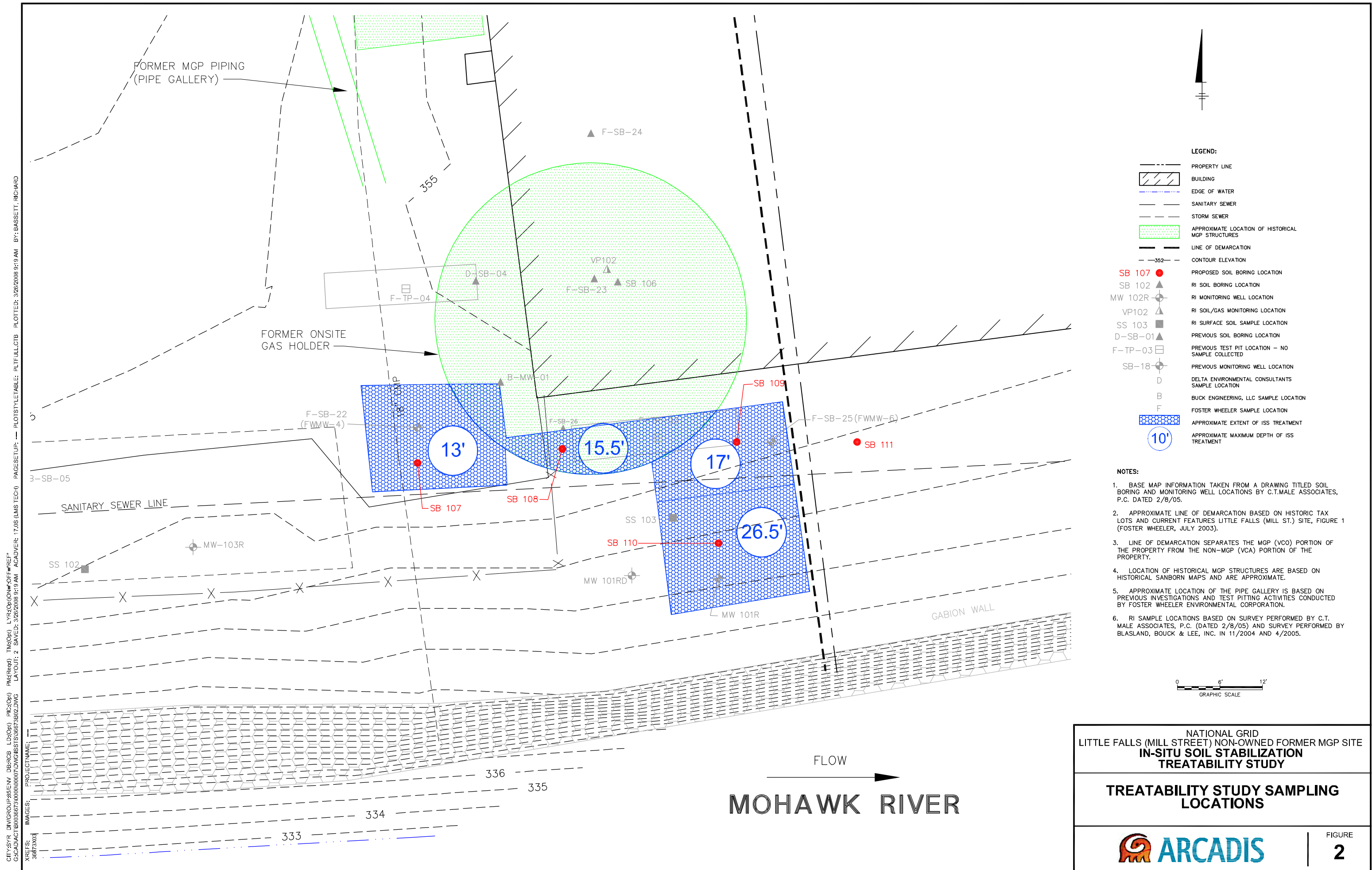
James F. Morgan  
Lead Senior Environmental Engineer

cc: Mr. George Heitzman, P.E., New York State Department of Environmental Conservation  
Mr. Greg Rys, New York State Department of Health  
Mr. John B. Feldmeier, Feldmeier Equipment, Inc.  
Mr. Kyle Brown, Feldmeier Equipment, Inc.  
William J. Holzhauer, Esq., National Grid  
Mr. Charles F. Willard, P.G., National Grid  
Ms. M. Cathy Geraci, National Grid  
Mr. James M. Nuss, P.E., ARCADIS  
Mr. Michael C. Jones, ARCADIS

## Figures







**Attachment A**

Soil Boring Logs

<b>Date Start/Finish:</b> 4/16-4/18/2008 <b>Drilling Company:</b> Parratt-Wolff, Inc. <b>Driller's Name:</b> Mickey Marshall <b>Drilling Method:</b> Hollow Stem Auger <b>Auger Size:</b> 4.25" OD <b>Rig Type:</b> Ingersoll Rand A300 <b>Sampling Method:</b> 2"x 2' Split Spoon	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> NA  <b>Borehole Depth:</b> 19' bgs <b>Surface Elevation:</b> NA  <b>Descriptions By:</b> Marcus Eriksson	<b>Well/Boring ID:</b> SB-107  <b>Client:</b> National Grid  <b>Location:</b> Little Falls, NY  <div style="text-align: right; font-size: 2em; font-weight: bold;">DRAFT</div>
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA	NA	0.0		Brown fine SAND, little fine to medium Gravel, trace red Brick, Silt and Organics, moist.	
		2	1-2	NA	NA	NA	0.0			
		3	2-3	NA	NA	NA	0.0			
		4	3-4	NA	NA	NA	0.0		Brown fine SAND, little fine Gravel, trace Organics, and Silt, moist.  Trace red Brick @ 4' bgs.	
5	-5	5	4-5	NA	NA	NA	0.0			
		6	5-7	2.0	8 9 11 12	20	0.0		Brown fine SAND, little fine Gravel, trace Silt, Fire Brick, and red Brick, moist.	
		7	7-9	NR	9 5 3 2	8	NR		No Recovery (rock stuck in Drive Shoe of the Split Spoon).	
		8	9-11	1.5	2 2 2 3	4	0.0		Brown fine SAND, little fine Gravel, trace Silt, Fire Brick, and red Brick, moist.  Brown fine SAND, little fine Gravel, trace Silt, loose, moist. Trace coal fragments throughout, becomes saturated (~9.5-10.0' bgs).  Trace fine Gravel @ 11' bgs.	
10	-10	9	11-13	1.7	12 5 4 8	9	0.0			
		10	13-15	1.0	8 4 5 5	9	0.0		Light brown fine to medium SAND, some fine Gravel, trace Silt, black and brown spots throughout, loose, saturated.	
15	-15	11	15-17	1.2	3 3	7	0.0		Brown fine SAND, trace fine Gravel, Silt, loose, saturated.	

Borehole backfilled with a Bentonite and Portland Cement Slurry.



**Remarks:** bgs = below ground surface  
SS = Split Spoon  
NA = Not Applicable/Available  
NR = No Recovery.

The first 5 feet of boring was hand cleared using hand tools and an air knife.



Client: National Grid

Well/Boring ID: SB-107

Site Location:  
Little Falls, NY

Borehole Depth: 19' bgs

**DRAFT**

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		11	15-17	1.2	4 4	7	0.0		Brown fine SAND, trace fine Gravel, Silt, loose, saturated.	
		12	17-19	2.0	2 2 3 4	5	0.0		Brown fine SAND, trace fine Gravel, Silt, black staining, trace sheen, very faint MGP like odor loose, saturated.	Borehole backfilled with a Bentonite and Portland Cement Slurry.
20 - 20									Refusal @ 19' bgs.	
25 - 25										
30 - 30										
35 - 35										




**Remarks:** bgs = below ground surface  
SS = Split Spoon

NA = Not Applicable/Available  
NR = No Recovery.

The first 5 feet of boring was hand cleared using hand tools and an air knife.

<b>Date Start/Finish:</b> 4/16-4/17/2008 <b>Drilling Company:</b> Parratt-Wolff, Inc. <b>Driller's Name:</b> Mickey Marshall <b>Drilling Method:</b> Hollow Stem Auger <b>Auger Size:</b> 4.25" OD <b>Rig Type:</b> Ingersoll Rand A300 <b>Sampling Method:</b> 2"x 2' Split Spoon	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> NA  <b>Borehole Depth:</b> 13.8' bgs <b>Surface Elevation:</b> NA  <b>Descriptions By:</b> Marcus Eriksson	<b>Well/Boring ID:</b> SB-108  <b>Client:</b> National Grid  <b>Location:</b> Little Falls, NY  <div style="text-align: right; font-size: 2em; font-weight: bold;">DRAFT</div>
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA	NA	0.0		Brown fine to medium SAND, little fine to medium Gravel, trace red Brick, Silt, and Organics, moist.	
		2	1-2	NA	NA	NA	0.0			
		3	2-3	NA	NA	NA	0.0		Brown fine SAND, little fine Gravel, trace Silt, Organics (roots), and red Brick, moist.	
		4	3-4	NA	NA	NA	0.0		Little medium Gravel and red Brick, very Rocky @ 3' bgs.	
5	-5	5	4-5	NA	NA	NA	0.0		Brown fine SAND, little fine Gravel, trace Silt, red Brick and Organics, moist.	
		6	5-7	2.4	9 34 30 20	64	0.0		Hard (possible large Cobble) @ 5.5' bgs.  Possible large Cobble at 5.5' bgs hard drilling.	
		7	7-9	0.7	4 4 5 3	9	0.0		Brown fine to medium SAND, some sub-rounded Gravel, trace Silt, loose, moist.  Sand becoming lighter brown color, red Brick stuck in Split Spoon (9'-11' bgs.)	
10	-10	8	9-11	0.5	2 4 3 7	7	0.0			
		9	11-13	0.3	7 27 17 11	44	0.0		Becomes saturtated @ 13' bgs.	
		10	13-15	0.4	100 50/ 0.3 -	Ref.	0.0		WOOD fragments, NAPL-like black stain in Wood, little sheen throughout, saturated. Refusal (Concrete in Split Spoon) @ 13.8' bgs.	Borehole backfilled with a Bentonite and Portland Cement Slurry.
15	-15									

	<b>Remarks:</b> bgs = below ground surface SS = Split Spoon NA = Not Applicable/Available NR = No Recovery.  The first 5 feet of boring was hand cleared using hand tools and an air knife.
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<b>Date Start/Finish:</b> 4/16-4/17/2008 <b>Drilling Company:</b> Parratt-Wolff, Inc. <b>Driller's Name:</b> Mickey Marshall <b>Drilling Method:</b> Hollow Stem Auger <b>Auger Size:</b> 4.25" OD <b>Rig Type:</b> Ingersoll Rand A300 <b>Sampling Method:</b> 2"x 2' Split Spoon	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> NA  <b>Borehole Depth:</b> 15.8' bgs <b>Surface Elevation:</b> NA  <b>Descriptions By:</b> Marcus Eriksson	<b>Well/Boring ID:</b> SB-109  <b>Client:</b> National Grid  <b>Location:</b> Little Falls, NY  <div style="text-align: right; font-size: 2em; font-weight: bold;">DRAFT</div>
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA	NA	1.2		Brown fine SAND, some fine to medium Gravel, trace Organics, red Brick, and Silt, moist. Black geotextile @ 0.3' bgs.	
		2	1-2	NA	NA	NA	0.6		Little red Brick @ 1.5' bgs. Trace fire Brick @ 2' bgs.	
		3	2-3	NA	NA	NA	0.3			
		4	3-4	NA	NA	NA	0.0		Brown fine SAND, some fine Gravel, trace medium Gravel, Silt, red Brick, and Fire Brick, moist.	
5	-5	5	4-5	NA	NA	NA	0.0			
		6	5-7	0.9	2 2 2 2	4	0.0		Brown fine to medium SAND, little fine Gravel, trace Fire Brick, red Brick, and Coal fragments, loose, moist.	
		7	7-9	1.1	4 3 7 4	10	0.0		Brown fine SAND, little fine Gravel, red Brick, trace Silt, Organics, and Fire Brick, black staining throughout, faint NAPL-like odor, loose, moist. Slag chunks present (7.3-7.5' bgs).	
10	-10	8	9-11	1.3	4 4 3 2	7	0.0		Brown fine to medium SAND, little fine Gravel, trace Silt, red Brick, and Organics, trace black staining, loose, moist.  Cinders present @ 10.3' bgs.  Becomes saturated @ 11' bgs.	
		9	11-13	0.7	2 2 4 3	6	0.0			
		10	13-15	0.8	6 7 7 7	14	0.0			
15	-15				29				Becomes hard @ 15' bgs.	
		11	15-16	0.2	27 50/ 0.2	Ref.	0.0		Refusal (GNEISS) @ 15.8' bgs.	

Borehole backfilled with a Bentonite and Portland Cement Slurry.



**Remarks:** bgs = below ground surface  
 SS = Split Spoon  
 NA = Not Applicable/Available  
 NR = No Recovery.

The first 5 feet of boring was hand cleared using hand tools and an air knife.

<b>Date Start/Finish:</b> 4/16-4/18/2008 <b>Drilling Company:</b> Parratt-Wolff, Inc. <b>Driller's Name:</b> Mickey Marshall <b>Drilling Method:</b> Hollow Stem Auger <b>Auger Size:</b> 4.25" OD <b>Rig Type:</b> Ingersoll Rand A300 <b>Sampling Method:</b> 2"x 2' Split Spoon	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> NA  <b>Borehole Depth:</b> 26.4' bgs <b>Surface Elevation:</b> NA  <b>Descriptions By:</b> Marcus Eriksson	<b>Well/Boring ID:</b> SB-110  <b>Client:</b> National Grid  <b>Location:</b> Little Falls, NY  <div style="text-align: right; font-size: 2em; font-weight: bold;">DRAFT</div>
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA	NA	0.0		Brown fine to medium SAND and fine to coarse GRAVEL, little Organics, trace Silt, moist. Black geotextile @ ~1' bgs.	
		2	1-2	NA	NA	NA	1.7		Brown fine to medium SAND, some fine to medium Gravel, little Organics (roots), trace Silt, moist.	
		3	2-3	NA	NA	NA	0.9		Trace red Brick and Fire Brick @ ~2.5' bgs. Little red Brick @ 3' bgs.	
		4	3-4	NA	NA	NA	1.2			
5	-5	5	4-5	NA	NA	NA	0.7		Brown fine SAND, some red Brick, little fine Gravel, trace Fire Brick, Silt, and Organics, moist.	
		6	5-7	0.5	5 2 2 3	4	0.0		Brown fine to medium SAND, little fine Gravel and red brick, trace Silt, Organics, and Coal fragments, loose, moist.	
		7	7-9	1.0	5 6 4 8	10	0.0		Brown fine to medium SAND, little fine Gravel and red brick, trace Silt, Organics, and Coal fragments, black staining, loose, moist.	
									Brown fine to medium SAND, little fine Gravel and red brick, trace Silt, Organics, and Coal fragments, loose, moist.	
10	-10	8	9-11	0.7	8 5 4 4	9	0.0		Brown fine to medium SAND, little fine Gravel and red brick, trace Silt, Organics, and Coal fragments, trace black stained blebs throughout, loose, moist.	
		9	11-13	0.4	8 6 4 4	10	0.0		Brown fine to medium SAND, little fine Gravel, trace Silt, Organics (turning lighter in color), loose, saturated. Brown fine to medium SAND, little fine Gravel, trace Silt, Organics (turning lighter in color), trace black staining, loose, saturated.	
		10	13-15	0.6	16 8 9 50/ 0.4	17	0.0		Brown fine to medium SAND, trace fine Gravel, Silt, Organics, loose, saturated. Becomes hard @ 13.6' bgs.	
15	-15	11	15-17	1.6	9 10	19	3.7			

Borehole backfilled with a Bentonite and Portland Cement Slurry.



**Remarks:** bgs = below ground surface  
SS = Split Spoon  
NA = Not Applicable/Available  
NR = No Recovery.

The first 5 feet of boring was hand cleared using hand tools and an air knife.



Client: National Grid

Well/Boring ID: SB-110

Site Location:  
Little Falls, NY

Borehole Depth: 26.4' bgs

**DRAFT**

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
20 - 25	-20	11	15-17	1.6	9 11	19	3.7		Black-stained fine SAND, trace Organics, MGP-like odor, stiff, saturated.	Borehole backfilled with a Bentonite and Portland Cement Slurry.
		12	17-19	0.7	5 6 7 9	13	25.0		Black-stained fine SAND, trace Organics, MGP-like odor, little sheen, stiff, saturated.	
								Black-stained fine SAND, trace Organics, strong NAPL like odor, sheen, stiff, saturated.		
		13	19-21	2.0	2 2 2 3	4	269			
		14	21-23	2.0	3 3 3 4	6	442		Black-stained fine SAND, trace Organics, NAPL blebs (1-2 mm diameter), strong NAPL like odor, sheen, stiff, saturated.	
		15	23-25	2.0	2 3 5 6	8	162			
16	25-27	1.4	6 18 50/ 0.4	Ref.	208		Black-stained fine SAND, trace Organics and Wood, NAPL throughout, strong NAPL like odor, sheen, stiff, saturated.			
						Refusal @ 26.4' bgs.				
30 - 35	-30									



**Remarks:** bgs = below ground surface  
SS = Split Spoon


NA = Not Applicable/Available  
NR = No Recovery.

The first 5 feet of boring was hand cleared using hand tools and an air knife.

<b>Date Start/Finish:</b> 4/16-4/17/2008 <b>Drilling Company:</b> Parratt-Wolff, Inc. <b>Driller's Name:</b> Mickey Marshall <b>Drilling Method:</b> Hollow Stem Auger <b>Auger Size:</b> 4.25" OD <b>Rig Type:</b> Ingersoll Rand A300 <b>Sampling Method:</b> 2"x 2' Split Spoon	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> NA  <b>Borehole Depth:</b> 13.8' bgs <b>Surface Elevation:</b> NA  <b>Descriptions By:</b> Marcus Eriksson	<b>Well/Boring ID:</b> SB-111  <b>Client:</b> National Grid  <b>Location:</b> Little Falls, NY  <div style="text-align: right; font-size: 2em; font-weight: bold;">DRAFT</div>
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0	1	0-1	NA	NA	NA	0.0		Brown fine to medium SAND, little fine to medium Gravel, trace Silt, Organics, moist. Black liner @ 0.2' bgs. Trace Coal-like material @ 0.7' bgs. Red Brick and Fire Brick present @ 2' bgs.	
		2	1-2	NA	NA	NA	0.0			
		3	2-3	NA	NA	NA	0.0		Brown fine SAND, little fine Gravel, red Brick and Fire Brick, trace Silt and Organics, moist. Wood (large root) (2.5-3') bgs.	
		4	3-4	NA	NA	NA	0.0			
		5	4-5	NA	NA	NA	1.3/3.7		Very faint LNAPL like odor @ 4' bgs.	
5	-5	6	5-7	1.0	2 2 3 2	5	4.2		Brown fine SAND, little fine Gravel, trace Silt, very soft, moist.	
		7	7-9	0.5	2 2 2 5	4	0.0			
									Brown fine SAND, little fine Gravel, trace Silt, faint odor, black staining, very soft, loose, moist.	
10	-10	8	9-11	0.8	2 2 2 3	4	3.2		Brown fine SAND, little fine Gravel, trace Silt, faint odor, very soft, loose, moist.	
									Some angular Gravel @ 11' bgs.	
		9	11-13	0.9	5 6 3 3	9	0.0			
									Brown fine SAND, some Silt and fine gravel, loose to medium dense, moist.	
		10	13-15	0.4	7 50/ 0.3 -	Ref.	1.4		Refusal (GNEISS) @ 13.8' bgs.	
15	-15									

Borehole backfilled with a Bentonite and Portland Cement Slurry.

	<b>Remarks:</b> bgs = below ground surface SS = Split Spoon NA = Not Applicable/Available NR = No Recovery.  The first 5 feet of boring was hand cleared using hand tools and an air knife.
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**Attachment B**

Laboratory Design Mix Testing  
Report – prepared by Geo-  
Solutions

July 8, 2008

D-488

Allen J. Evans  
ARCADIS  
465 New Karner Road  
Albany, NY 12205

**DRAFT  
Report  
Laboratory Design Mix Testing  
ISS Treatment of MGP Impacted Soils  
National Grid Site  
Little Falls, NY**

**INTRODUCTION**

This report presents the results of laboratory tests performed to support the development of a suitable In Situ Stabilization/Solidification (ISS) mix design for treatment of MGP (manufactured gas plant) impacted soils at the National Grid site in Little Falls, NY (Site). The work described in this report was completed in accordance with our subcontract agreement with ARCADIS of New York, Inc. (ARCADIS).

**1.1 Objectives**

The objective of the testing program was to develop a Site-specific mixture of materials that can be blended in situ (without excavation) with Site soils to stabilize and solidify these materials to limit the mobility of the MGP contaminants. At this time, there are no specific design criteria for ISS treatment, but the grout and the soil/grout mixture should meet several criteria for workability, as well as for successful treatment. Two potential treatment methods are under consideration; jet grouting (JG) and shallow soil mixing (SSM). We established the following set of design criteria for the ISS treatment.

- The reagents should be readily available, workable, and cost effective for ISS construction.
- The grout (e.g. reagent + water) used for ISS treatment should demonstrate adequate workability that will allow injection and mixing in situ using ISS equipment (either JG or SSM). The grout should have a low viscosity to allow it to be pumped the distances





required and injected through ISS equipment. SSM and JG have different workability requirements which are addressed in this report.

- At least one JG and one SSM mixture should be developed for potential field implementation.
- The grout/soil mixtures should provide adequate strength to reduce the mobility of MGP contaminants. When mixed with soil, the grout/soil mixture should set to an unconfined compressive strength (UCS) in the range of 50 psi or more at 28 days.
- The grout/soil mixture should be relatively impermeable, in the range of  $10^{-6}$  cm/sec or lower.
- The test program should provide for a reasonable level of optimization of the mixtures for minimum cost and best performance.
- The test program should minimize the cost to the owner and still provide for maximum practical effectiveness for the protection of the environment.

## 1.2 Laboratory

Geotechnical and mixture testing was performed by JLT Laboratories Inc. of Canonsburg, PA and Geo-Solutions. Steve Day of Geo-Solutions supervised the project and was in nearly daily communication with JLT. John Boschuk of JLT and Steve Day of Geo-Solutions have worked together on this type of testing for more than 20 years.

# METHODS AND MATERIALS

## 2.1 Materials

Samples of Site materials were obtained by ARCADIS and shipped to the laboratory for use in the design mix testing. Samples of the bentonite clay and cements (or reagents) were obtained from laboratory stock. Based on previous successful experience the following reagents were selected for use in ISS: Portland cement (PC), ground granular blast furnace slag cement (BFS), and bentonite clay. Reagent samples were originally obtained from the manufacturer within the past year. The materials utilized in the laboratory design mix are summarized in the table shown below:

Material	Type	Designations
Mix Water	Municipal Water	Water, Mix Water
Bentonite Clay	Federal Bentonite	B, 90 bbl/ton
Blast Furnace Slag Cement	St. Lawrence Cement	BFS, Grade 120
Portland Cement	St. Lawrence Cement	PC, Type I-II
Soil	Soil Borings SB-107, -108, -109, and -110	Site Soils

PC is the same cement widely used in highway and building construction. Bentonite clay is a highly active colloid clay mined in Wyoming and widely used in impermeable soil barriers and a

variety of other uses. BFS is a by-product of steel manufacturing. BFS forms more and stronger bonds than PC, but requires an activator, such as lime or PC, to initiate solidification.

## 2.2 Test Methods

The following standard methods and references were relied upon in testing the materials in the laboratory:

Test	Method, Standard or Reference
Water conductivity & TDS	Conductivity meter
Water Hardness	Hach colorimetric sticks
Water pH	pH meter
Grain size	ASTM D422
Organic Content (LOI)	ASTM D2974
Atterberg Limits	ASTM D4318
Moisture Content	ASTM D2216
Soil Classification (USCS)	ASTM D2487
Slurry Preparation	API 13A mod.
Soil-Cement sample preparation	ASTM D4832
Slump (mini-slump method)	ASTM D143 mod. <sup>1</sup>
Viscosity and Density	API RP 13B-1
Filtrate, pH, and temperature	API RP 13B-1
Bleed and Set	ASTM C940 mod.
Penetration Resistance	ASTM D1558 mod.
Unconfined Compression Strength (UCS)	ASTM D1633 & D2166
Hydraulic Conductivity (permeability)	ASTM D5084

## TEST RESULTS

### 3.1 Mix Water Sample

The properties of the mix water were tested in laboratory. The properties of the water are presented in the table below:

Designation	Water
pH	7.8
Hardness (ppm)	120
TDS (ppm)	75
Conductivity (μS)	165

The mix water is tap water and presents no problems for ISS construction.

<sup>1</sup> Malusis, M. A., Evans, J. C., McLane, M. H. and Woodward, N. R., (2008) "A Miniature Cone for Measuring the Slump of Soil Bentonite Slurry Trench Cutoff Wall Backfill," *ASTM Geotechnical Testing Journal*, accepted for publication.

### 3.2 Soil Samples

Representative samples of the Site soils were received at the laboratory from ARCADIS. The samples were received in coolers labeled SB-107, SB-108, SB-109, and SB-110. These soils contain pieces of brick, debris, organics, sand and gravel. Materials larger than 0.5 inch were removed from the samples in order to comply with standard laboratory protocols for sample size. Based on our evaluation, SB-107, -108, and -109 were made into a composite for primary use in stabilization testing. SB-110 included more and larger rocks and more obvious contamination. There was a concern that preparation of the SB-110 material (removing the materials greater than 0.5 inch) would leave only highly contaminated waste that may not be representative. Therefore, we considered SB-110 as a worst case sample. The properties of the soils are presented below.

Grain size	SB-107	SB-108	SB-109	Composite	SB-110
%<1 inch	--	--	--	75.7	--
%<1/2 inch	--	--	--	64.4	--
%<#4	--	--	--	54.3	--
%<#40	--	--	--	34.5	--
%<#200	--	--	--	18.1	--
Plasticity	NP	NP	NP	NP	NP
WC (%)	17	7	15	13	15
pH	--	--	--	8.6	--
LOI (%)	--	--	--	3.3	4.2

Pictures of SB-107 and SB-110 are shown below:



### 3.4 Grouts

Grout was made from water (W), Portland cement (PC), Blast Furnace Slag (BFS), and bentonite (B). The mixtures were tested for workability and evaluated for bleed. Mixtures are intended to be suitable for either jet grout or shallow soil mixing applications. In all cases, the ingredients were added to the mix water simultaneously when making grout. The properties of the grouts are listed in the table below:

Mix No.	Reagents	Reagent / Water (%)	Viscosity (cP)	Density (gm/cc)	pH (units)	Bleed (observed)
SSM1	PC / BFS / B	11 / 33 / 2.7	2	1.25	12.4	minor
SSM2	PC / BFS / B	40 / 17 / 2.9	1.5	1.35	12.5	minor
SSM3	PC / B	60 / 3.0	2	1.33	12.3	minor
SSM4	PC / B	45 / 3.2	1	1.28	12.4	moderate
JG5	PC / B	30 / 1.5	1	1.18	12.1	significant
JG6	PC / BFS / B	35 / 15 / 1.75	1.5	1.29	12	48%
JG7	PC / BFS / B	25 / 75 / 2	4.5	1.48	12	29%
SSM8	PC / B	45 / 3.2	1*	1.28*	12.4*	moderate*

\* = Did not test. Results based on identical mix SSM4

All of the grouts are workable with a low viscosity. JG mixtures were formulated with more water than SSM mixtures to be less viscous. The bleeds of the JG mixtures were more than the SSM mixtures due to the greater water added.

### 3.5 ISS Mixtures

Eight (8) ISS, soil-cement-bentonite mixtures were made. Seven mixtures were made with the composite soil and one mixture (SSM8) was made with the worst case soil sample. Grouts (see above) were mixed with the Site soils and then molded into 2 x 4 inch cylinders. The ingredients were proportioned based on the total weight of the soil to allow simple conversion to field proportions. Prior to molding the pH, density, and slump of the mixtures was measured for most mixtures. The hardened cylinders were tested for UCS (unconfined compressive strength) and permeability. Any free water was evaluated as the mixtures set. Some samples were not tested (DNT) to reduce testing costs or to minimize duplication. A summary of the mix proportions and wet properties (after mixing, prior to hardening) are shown in the table below:

TRIAL MIX NO.	REAGENT TYPE	REAGENT ADDITION (%)	WATER ADDED (%)	Wet Density (pcf)	Esti. Slump (inch)	pH (units)
		(X / soil)				
SSM1	BSF/PC/Bento	6/2/0.5	18.2	119	8.8	11.4
SSM2	BFS/PC/Bento	3/7/0.5	17.5	124	9.2	11.9
SSM3	PC/Bento	10/0.5	16.7	123	9	12
SSM4	PC/Bento	7/0.5	15.6	121	9	11.7
JG5	PC/Bento	10/0.5	33.3	104	13	12.3
JG6	BFS/PC/Bento	4.29 /10/0.5	28.5	117	13	12
JG7	BFS/PC/Bento	18.75/6.25/0.5	25	120	9.4	12
SSM8	PC/Bento	7/0.5	15.4	DNT	DNT	DNT



All of the mixtures demonstrated adequate workability (see slump and density). The amount of cement (combined PC and BFS) varied from 7 to 25%. The amount of bentonite was held constant at 0.5%. Bentonite was added primarily to aid workability and to control bleed. The measured slumps tend to indicate that for these SSM mixtures, using less water may be possible in the field.

### 3.6 ISS Strength

The unconfined compressive strength of the ISS mixtures was measured after 3, 7 and 28 days of damp curing (ASTM D4832). At 3 days the mixtures were tested with a penetrometer and at 7 and 28 days with a compression testing machine, except SSM1 which was tested with both methods at 3 days. The results of those tests are shown below.

TRIAL MIX No.	REAGENT TYPE	REAGENT ADDITION (%)	WATER ADDED (%)	Free Liquids (Y/N)	Pentrmtr 3 Day (tsf)	UCS*	
						7 Day (psi)	28 Day (psi)
		(X / soil)					
SSM1	BSF/PC/Bento	6/2/0.5	18.2	N	2.7 0.7*	109**	304
SSM2	BFS/PC/Bento	3/7/0.5	17.5	N	>4.5	96	287.1
SSM3	PC/Bento	10/0.5	16.7	N	>4.5	92	DNT
SSM4	PC/Bento	7/0.5	15.6	N	>4.5	75	128.3
JG5	PC/Bento	10/0.5	33.3	?	1.0	15	DNT
JG6	BFS/PC/Bento	4.29 /10/0.5	28.5	N	4.4	81.5	143.8
JG7	BFS/PC/Bento	18.75/6.25/0.5	25	N	>4.5	371	744
SSM8	PC/Bento	7/0.5	15.4	N	1.8	23.2	45.8

Notes: Pentrmtr = penetrometer

\* = tested via compression machine

\*\* = tested at 11 days

DNT = did not test

No shrinkage cracks or other defects were observed in any test specimen. No free liquids were evident after 7 days of curing, but excess water was noted immediately after mixing JG5. JG 5 also produced the lowest UCS. All of the mixtures except for JG5 and SSM8 provided the required 28 days UCS after only 7 days, and SSM8 did not achieve the required UCS.

The hardening and set of the mixtures varies with curing time and ingredients. For example SSM1 appeared to be quite soft at 3 days (about 20 psi) but produced a UCS of over 100 psi at 11 days which nearly tripled to 304 psi at 28 days. JG7 with 25% cement provided more than twice the UCS of SSM1 with about 8% cement. The mixtures with more BFS than PC produced the highest UCS.

Mixtures SSM4 and SSM8 were formulated with the same grout, but different soils. The soil for SSM8 was the worst case soil, SBS-110. When mixed with grout, the worst case soil produced about one-third the UCS at 7 days (UCS of SSM8/SSM4 = 0.31). It seems likely that the lower strength of SSM8 is due to organic contamination in the soil.

### 3.7 ISS Permeability

The permeability of the ISS test specimens was measured after 7 days of curing. The specimens were tested at an effective confining stress of 10 psi at a hydraulic gradient less than 30 in accordance with ASTM D5084. The results of these tests are shown in the table below.

TRIAL MIX No.	REAGENT TYPE	REAGENT ADDITION (%)	WATER ADDED (%)	Total Density (pcf)	Water Content (%)	Permeability 7 Day (cm/sec)
		(X / soil)				
SSM1	BSF/PC/Bento	6/2/0.5	18.2	122.5	27.5	1.0E-08
SSM2	BFS/PC/Bento	3/7/0.5	17.5	122.9	25.1	3.4E-07
SSM3	PC/Bento	10/0.5	16.7	121.6	26.4	3.5E-07
SSM4	PC/Bento	7/0.5	15.6	121.6	26.5	1.0E-07
JG5	PC/Bento	10/0.5	33.3	110.9	40	6.2E-07
JG6	BFS/PC/Bento	4.29 /10/0.5	28.5	117.3	32.6	9.4E-07
JG7	BFS/PC/Bento	18.75/6.25/0.5	25	123.4	22.8	2.57E-08
SSM8	BFS/PC/Bento	7/0.5	15.4	121.7	29.5	2.2E-06

All of the mixtures except SSM8 with the worst case soil produced acceptable permeability test results less than  $1 \times 10^{-6}$  cm/sec. Mixtures SSM4 and SSM8 were formulated with the same grout, but different soils. Mix SSM8 with the worst case soil produced a marginal permeability, slightly above  $1 \times 10^{-6}$  cm/sec, while SSM4 produced a permeability of  $1 \times 10^{-7}$  cm/sec. Mixtures SSM1 and JG7 with more BFS than PC, produced the lowest permeability results.

## DISCUSSION

### 4.1 Grouts

Workable grouts can be made with cement, bentonite, and the local water. No particular order of mixing ingredients was observed in the laboratory. As a result, viscosities were low and bleeds were moderate. Generally, moderate bleeding is not a problem if the grout can be used without delay and long pumping distances can be avoided. Alternately, the bentonite can be added first (pre-mixed) to the water which should significantly reduce bleed. In the field, water aids mixing and pumping, but if excessive should be reduced. The grouts formulated in this study have been formulated to be conservative with plenty of water. The amount of water can be easily adjusted (reduced) in the field, if needed.



#### 4.2 Jet Grout Mixtures

Three jet grout mixtures were tested. JG5 had excess water when mixed, unacceptable UCS at 7 days (and probably at 28 days), but acceptable permeability. JG6 had acceptable UCS and marginal permeability. JG7 produced superior UCS and permeability and is recommended for field implementation. If further optimization is desired, a mixture midway between JG6 and JG7 may be considered and should be tested in the laboratory prior to construction.

#### 4.3 SSM Mixtures

Five SSM mixtures were tested using 2 different soil samples. With the composite soil with 3.3% organics all of the mixtures were successful for workability, UCS, and permeability. Mixture SSM8 with the more granular and more contaminated soils produced marginal UCS and permeability. In our experience, when this occurs the obvious solution is to add more cement to overcome the organics. Although we were not able to fully pursue optimization, it seems likely that a mix similar to SSM1 or SSM3 would probably produce acceptable results even in the worst case soils. If worst case soils are expected, additional pre-construction laboratory testing of the grout/soil mixture is highly recommended.

#### 4.4 Field Implementation

The grout and ISS mixtures tested in this laboratory study will require some on site modifications and additional information prior to implementation. One of the most important items is a fully developed quality control program. The QC program should include certification or tests on the basic materials; tests or measures of grout proportions including, density, and viscosity; and sampling and laboratory testing of field samples of the ISS mixtures. The recommended method for obtaining field samples of ISS is to sample the “wet” mixture and mold test specimens.

A reasonable safety factor or average should be included in the in situ density used for implementing ISS. This design in situ density also needs to be known for pricing purposes.

The amount of water used in ISS grout is typically adjusted in the field to help optimize workability and performance. The tests performed in this study should have more than adequate water for the recommended SSM and JG mixtures. SSM grouts must be adequate for both drilling and mixing. Lesser amounts of water in either grout should be acceptable if they produce better workability.

### CONCLUSIONS

The testing of ISS mixtures for the National Grid MGP site in Little Falls, NY has demonstrated the following;

- Workable grouts can be made with the local water, cement, and bentonite clay.



- The soils at the Site contain significant organic contamination, rubble and debris. ISS treatment is easily accomplished with composite soils and feasible with the worse case soils.
- The desired performance properties of the treated soils are workable mixtures with a UCS of at least 50 psi in 28 days; and a permeability of less than  $1 \times 10^{-6}$  cm/sec.
- The addition of at least 7% cement and 0.5% bentonite to the Site soils produced a mixture with adequate workability, strength and impermeability for ISS treatment with SSM in composite soils. For worse case soils it is estimated that at least 10% cement and 0.5% bentonite will be required.
- The addition of at least 15% cement and 0.5% bentonite to the Site soils produced a mixture with adequate workability, strength and impermeability for ISS treatment with JG in composite soils.
- Cement mixtures with 75% BFS and 25% PC produced superior UCS and permeability.
- Careful planning and a comprehensive quality control program are recommended to minimize field problems and promote the success of the construction.

Please feel free to call me if you have any questions.

Sincerely,

**Geo-Solutions**

Steven R. Day  
Vice President



## ***SITE WATER TEST RESULTS***



Client : Geo Solutions  
Contact : Steve Day  
Project : MGP Site  
National Gold  
Little Falls, NY

Date : 04/30/08  
Job No. : 08LS1293.01  
Perf'd By : MLB  
Chk'd By : JBJr

	Jug 1	Jug 2	Units
pH	7.83	7.87	
TDS	0.08	0.07	ppt
EC	0.17	0.16	mS
Hardness	120	120	ppm

pH Meter : Hanna pHep HI-98128  
TDS/EC Meter : Hanna Dist HI-98312  
Hardness : Test Strips provided by GeoSolutions  
Aquachek

***JLT Laboratories, Inc.***

938 S. Central Ave, Canonsburg, PA 15317 \* Tel: (724) 746-4441 / (724) 745-4261

# MOISTURE CONTENT

ASTM D-2216



**Client:** GeoSolutions  
**Project:** MGP Site, National Gold  
**Job No. :** 08LS1293.01  
 Bucket Samples

**Date :** 05/01/08  
**Perf'd By:** MLB  
**Chk'd By:** JB

BAG No.		SB-107	SB-108	SB-109	→	Average
SAMPLE						
DEPTH	ft	N/A	N/A	N/A		SB 107-109
TARE #		AG4	D23	D17		
WET SOIL + TARE	grams	1318.8	1659.0	1332.9		
DRY SOIL + TARE	grams	1130.1	1553.6	1160.0		
TARE	grams	16.3	15.7	14.9		
WET SOIL	grams	1302.5	1643.3	1318.0		
DRY SOIL	grams	1113.8	1537.9	1145.1		
WATER	grams	188.7	105.4	172.9		
MOISTURE	%	16.94	6.85	15.10	→	12.96

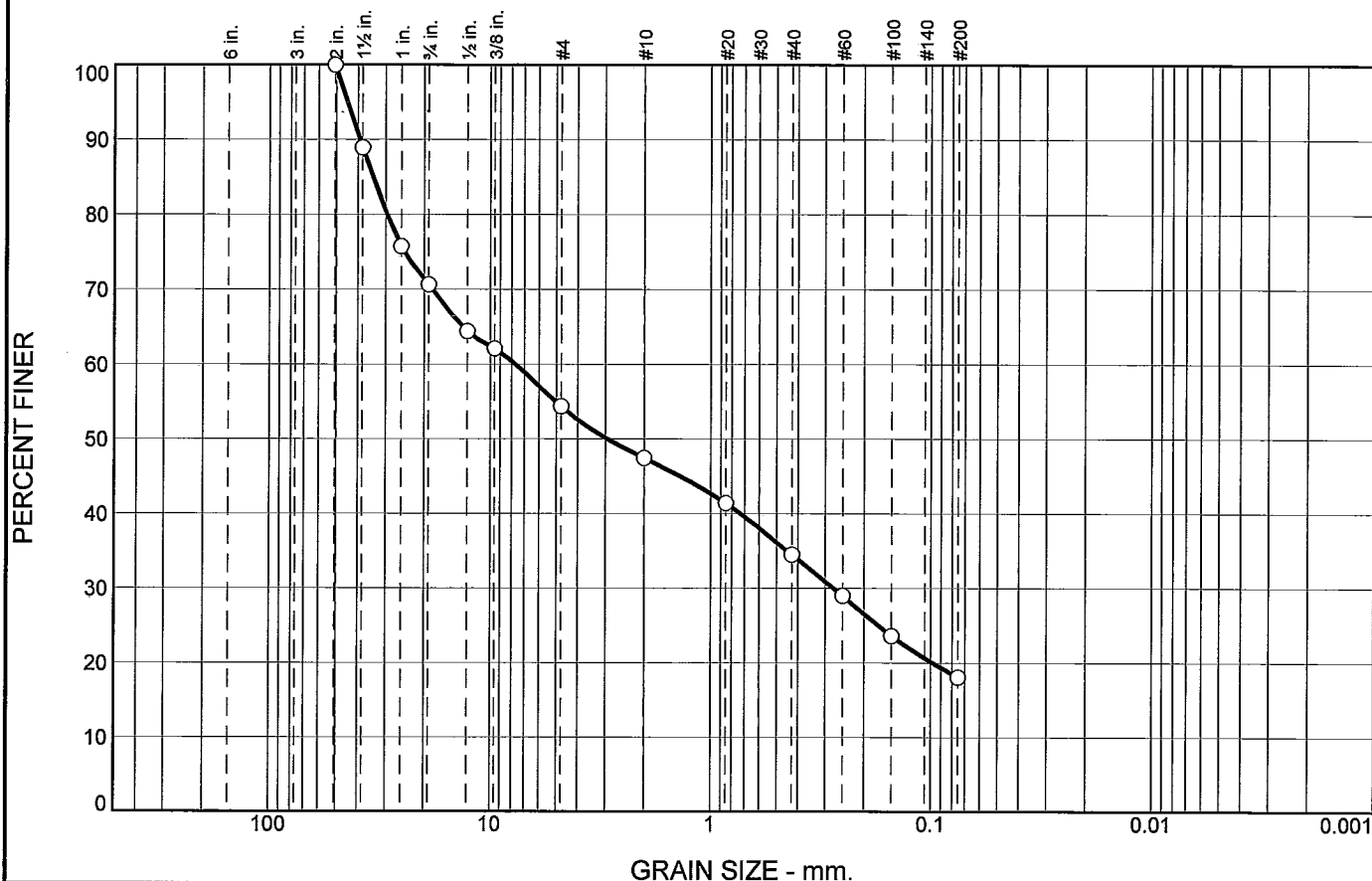
BAG No.		SB-110				
SAMPLE						
DEPTH	ft	N/A				
TARE #		P13				
WET SOIL + TARE	grams	1790.8				
DRY SOIL + TARE	grams	1557.9				
TARE	grams	14.9				
WET SOIL	grams	1775.9				
DRY SOIL	grams	1543.0				
WATER	grams	232.9				
MOISTURE	%	15.09				

BORING						
SAMPLE						
DEPTH	ft					
TARE #						
WET SOIL + TARE	grams					
DRY SOIL + TARE	grams					
TARE	grams					
WET SOIL	grams					
DRY SOIL	grams					
WATER	grams					
MOISTURE	%					

**JLT Laboratories, Inc.**

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# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	29.4	16.3	6.8	13.0	16.4	18.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.50	88.9		
1	75.7		
.75	70.6		
.50	64.4		
.375	62.1		
#4	54.3		
#10	47.5		
#20	41.4		
#40	34.5		
#60	29.0		
#100	23.6		
#200	18.1		

\* (no specification provided)

## Material Description

Composite of SB107, 108 & 109

## Atterberg Limits (ASTM D 4318)

PL= NP LL= NP PI= NP

## Classification

USCS= AASHTO=

## Coefficients

D<sub>85</sub>= 34.2810 D<sub>60</sub>= 7.6762 D<sub>50</sub>= 2.9205  
D<sub>30</sub>= 0.2756 D<sub>15</sub>= D<sub>10</sub>=  
C<sub>u</sub>= C<sub>c</sub>=

Date Tested: 05/01/08 Tested By: MLB

## Remarks

Average pH = 8.62  
Average Organic Content = 3.27%

Sample No.: Composite Source of Sample:  
Location:  
Checked By: JB

Date Sampled:  
Elev./Depth:

Title: Lab Manager

**JLT Laboratories, Inc.**

**Canonsburg, PA**

Client: GeoSolutions  
Project: MGP Site - National Gold  
Little Falls, NY  
Project No: 08LS1293.01

Figure

# MOISTURE, ASH AND ORGANIC CONTENT and pH

ASTM D 2974 Methods A and D



Client : GeoSolutions

Project : National Grid

Sample ID : SB-110 Bucket  
Minus No 4 Material

Job No. : 08LS1293.01

Date : 06/17/08

Perfd By : MLB

Chk'd By : JB

## MOISTURE CONTENT @ 105 Deg "C"

		1	2	3	4	5
Tare ID		AB-6				
Wet Soil + Tare	grs	386.3000				
Dry Soil + Tare	grs	326.2000				
Tare	grs	8.9000				
Water Loss	grs	60.1000				
Dry Soil	grs	317.3000				
Moisture Content	%	18.94				

## ASH and ORGANIC CONTENT @ 750 Deg "C"

		1	2	3	4	5
Tare ID		24	1	27		
Oven Dry Soil + Tare	grs	36.2869	49.5700	33.9035		
Furnace Dry Soil + Tare	grs	35.5445	48.5293	33.2070		
Tare	grs	18.1990	23.1428	18.3117		
Oven Dry Soil	grs	18.0879	26.4272	15.5918		
Furnace Dry Soil ( Ash )	grs	17.3455	25.3865	14.8953		
Ash Content	%	95.90	96.06	95.53		
Organic Content	%	4.10	3.94	4.47		

Average Organic Content : 4.17 %

## pH Test Data

Replicate 1	Replicate 2	Replicate 3
7.32	7.34	7.32

Average = 7.33



Laboratories, Inc.

938 S. Central Ave, Canonsburg, Pa. 15317 Tel: 724-746-4441 Fax : 724-745-4261



**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client	: GeoSolutions	Date	: 05/27/08
Project Location	: National Grid	Job No.	: 08LS1293.01
Sample Number	: SSM-1	Tested By	: RL
Description	: 13 Days	Checked By	: JB
		Job Refer.	:
		Spec. Gravity	: 2.67 Assumed

**Physical Property Data**

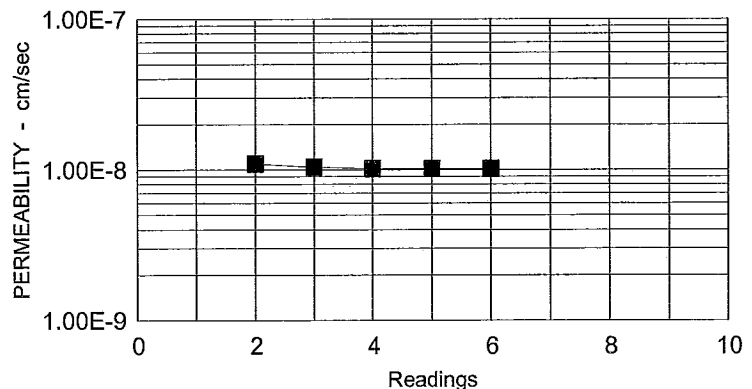
Initial Height ( in )	: 4.94	Final Height ( in )	: 4.94
Initial Diameter ( in )	: 2.02	Final Diameter ( in )	: 2.02
Initial Wet Weight ( g )	: 496.30	Final Wet Weight ( g )	: 499.10
Wet Density ( pcf )	: 119.32	Wet Density ( pcf )	: 119.52
Moisture Content %	: 30.10	Moisture Content %	: 30.90
Dry Density ( pcf )	: 91.71	Dry Density ( pcf )	: 91.31
Initial Void Ratio	: 0.8166	Final Void Ratio	: 0.8247
Saturation , %	: 98.4	Saturation , %	: 100.0

**Test Parameters**

Fluid	: De-Aired Water	Effective	
Cell Pressure ( psi )	: 65.00	Confining Pressure (psi)	: 10
Head Water ( psi )	: 57.20	Gradient	: 24.58
Tail Water ( psi )	: 52.80		

**Permeability Input Data**

Flow, Q ( cc )	: 0.30
Length, L ( in )	: 4.94
Area, A ( sqin )	: 3.22
Head, h ( psi )	: 4.40
Time, t ( min )	: 940.00
Temp, T ( Deg C )	: 20.7



**Computed Permeability**

**PERMEABILITY, K = 1.02E-008 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/27/08
Project Location : National Grid	Job No. : 08LS1293.01
Sample Number : SSM-2	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

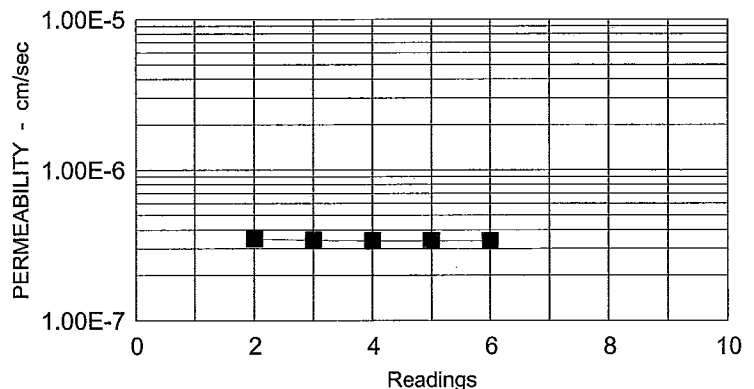
Initial Height ( in ) : 4.43	Final Height ( in ) : 4.43
Initial Diameter ( in ) : 2.03	Final Diameter ( in ) : 2.03
Initial Wet Weight ( g ) : 464.70	Final Wet Weight ( g ) : 468.30
Wet Density ( pcf ) : 122.88	Wet Density ( pcf ) : 123.83
Moisture Content % : 25.10	Moisture Content % : 26.00
Dry Density ( pcf ) : 98.22	Dry Density ( pcf ) : 98.28
Initial Void Ratio : 0.6962	Final Void Ratio : 0.6953
Saturation , % : 96.3	Saturation , % : 99.8

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure ( psi ) : 65.00	Confining Pressure ( psi ) : 10
Head Water ( psi ) : 57.00	Gradient : 24.92
Tail Water ( psi ) : 53.00	

**Permeability Input Data**

Flow, Q	( cc )	:	10.20
Length, L	( in )	:	4.43
Area, A	( sqin )	:	3.25
Head, h	( psi )	:	4.00
Time, t	( min )	:	938.00
Temp, T	( Deg C )	:	20.7



**Computed Permeability**

**PERMEABILITY, K = 3.41E-007 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/27/08
Project Location : National Grid	Job No. : 08LS1293.01
Sample Number : SSM-3	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

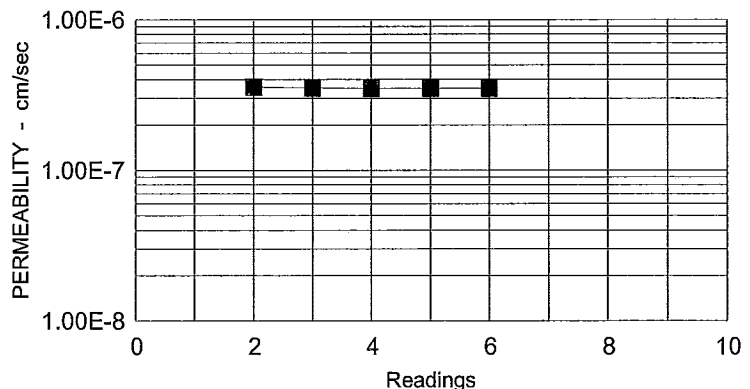
Initial Height ( in ) : 4.25	Final Height ( in ) : 4.25
Initial Diameter ( in ) : 2.04	Final Diameter ( in ) : 2.04
Initial Wet Weight ( g ) : 443.30	Final Wet Weight ( g ) : 446.90
Wet Density ( pcf ) : 121.58	Wet Density ( pcf ) : 122.57
Moisture Content % : 26.40	Moisture Content % : 27.40
Dry Density ( pcf ) : 96.19	Dry Density ( pcf ) : 96.21
Initial Void Ratio : 0.7321	Final Void Ratio : 0.7317
Saturation , % : 96.3	Saturation , % : 100.0

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure (psi) : 65.00	Confining Pressure (psi) : 10
Head Water (psi) : 56.90	Gradient : 24.68
Tail Water (psi) : 53.10	

**Permeability Input Data**

Flow, Q	( cc )	:	10.50
Length, L	( in )	:	4.25
Area, A	( sqin )	:	3.27
<b>Head, h</b>	<b>( psi )</b>	:	<b>3.80</b>
Time, t	( min )	:	939.00
Temp, T	( Deg C )	:	20.7



**Computed Permeability**

**PERMEABILITY, K = 3.52E-007 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/27/08
Project Location : National Grid	Job No. : 08LS1293.01
Sample Number : SSM-4	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

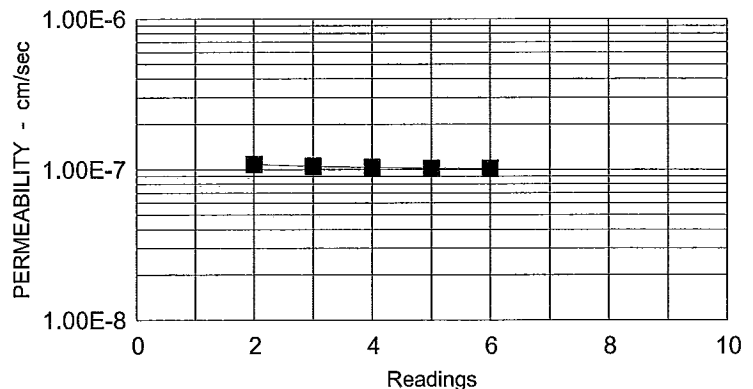
Initial Height ( in ) : 4.27	Final Height ( in ) : 4.27
Initial Diameter ( in ) : 2.03	Final Diameter ( in ) : 2.03
Initial Wet Weight ( g ) : 441.50	Final Wet Weight ( g ) : 445.00
Wet Density ( pcf ) : 121.59	Wet Density ( pcf ) : 122.50
Moisture Content % : 26.50	Moisture Content % : 27.47
Dry Density ( pcf ) : 96.12	Dry Density ( pcf ) : 96.10
Initial Void Ratio : 0.7333	Final Void Ratio : 0.7337
Saturation , % : 96.5	Saturation , % : 100.0

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure (psi) : 65.00	Confining Pressure (psi) : 10
Head Water (psi) : 56.90	Gradient : 24.56
Tail Water (psi) : 53.10	

**Permeability Input Data**

Flow, Q ( cc ) :	3.00
Length, L ( in ) :	4.27
Area, A ( sqin ) :	3.24
<b>Head, h ( psi ) :</b>	<b>3.80</b>
Time, t ( min ) :	939.00
Temp, T ( Deg C ) :	20.7



**Computed Permeability**

**PERMEABILITY, K = 1.02E-007 ( cm/sec ) at 20 Degrees C**



**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/27/08
Project Location : National Grid	Job No. : 08LS1293.01
Sample Number : JG-5	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

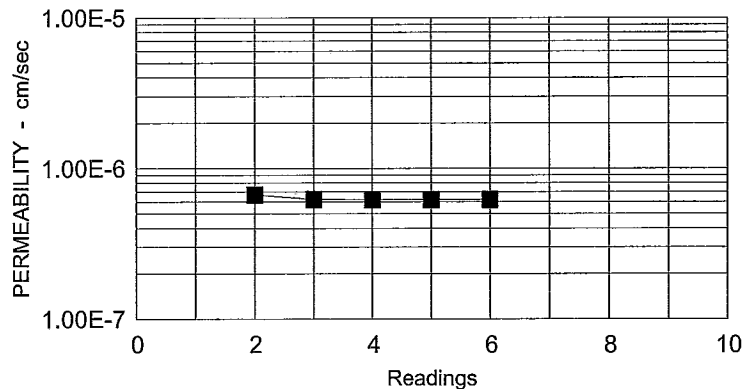
Initial Height ( in ) : 4.11	Final Height ( in ) : 4.10
Initial Diameter ( in ) : 2.02	Final Diameter ( in ) : 2.01
Initial Wet Weight ( g ) : 383.80	Final Wet Weight ( g ) : 384.10
Wet Density ( pcf ) : 110.91	Wet Density ( pcf ) : 112.37
Moisture Content % : 40.00	Moisture Content % : 40.65
Dry Density ( pcf ) : 79.22	Dry Density ( pcf ) : 79.90
Initial Void Ratio : 1.1031	Final Void Ratio : 1.0853
Saturation , % : 96.8	Saturation , % : 100.0

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure ( psi ) : 65.00	Confining Pressure ( psi ) : 10
Head Water ( psi ) : 56.90	Gradient : 25.58
Tail Water ( psi ) : 53.10	

**Permeability Input Data**

Flow, Q ( cc ) :	8.40
Length, L ( in ) :	4.10
Area, A ( sqin ) :	3.17
Head, h ( psi ) :	3.80
Time, t ( min ) :	421.00
Temp, T ( Deg C ) :	20.7



**Computed Permeability**

**PERMEABILITY, K = 6.23E-007 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/29/08
Project Location : National Grid	Job No. : 08LS1293.02
Sample Number : JG-6	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

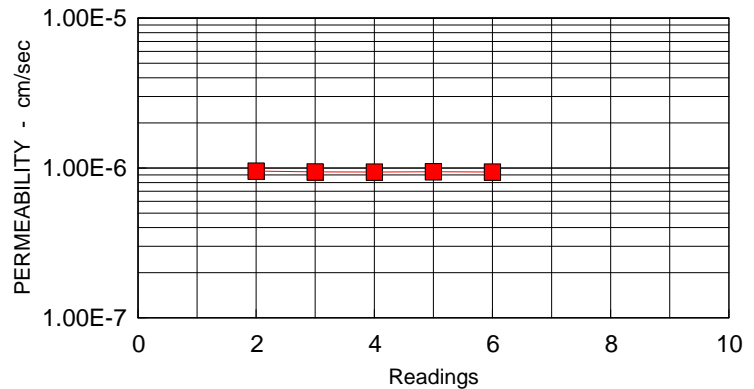
Initial Height ( in ) : 4.47	Final Height ( in ) : 4.47
Initial Diameter ( in ) : 2.00	Final Diameter ( in ) : 2.00
Initial Wet Weight ( g ) : 432.80	Final Wet Weight ( g ) : 434.60
Wet Density ( pcf ) : 117.31	Wet Density ( pcf ) : 117.79
Moisture Content % : 32.60	Moisture Content % : 33.00
Dry Density ( pcf ) : 88.47	Dry Density ( pcf ) : 88.57
Initial Void Ratio : 0.8833	Final Void Ratio : 0.8812
Saturation , % : 98.5	Saturation , % : 100.0

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure ( psi ) : 65.00	Confining Pressure ( psi ) : 10
Head Water ( psi ) : 57.00	Gradient : 24.70
Tail Water ( psi ) : 53.00	

**Permeability Input Data**

Flow, Q ( cc ) :	7.20
Length, L ( in ) :	4.47
Area, A ( sqin ) :	3.14
<b>Head, h ( psi ) :</b>	<b>4.00</b>
Time, t ( min ) :	250.00
Temp, T ( Deg C ) :	20.7



**Computed Permeability**

**PERMEABILITY, K = 9.41E-007 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 05/29/08
Project Location : National Grid	Job No. : 08LS1293.02
Sample Number : JG-7	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.67 Assumed

**Physical Property Data**

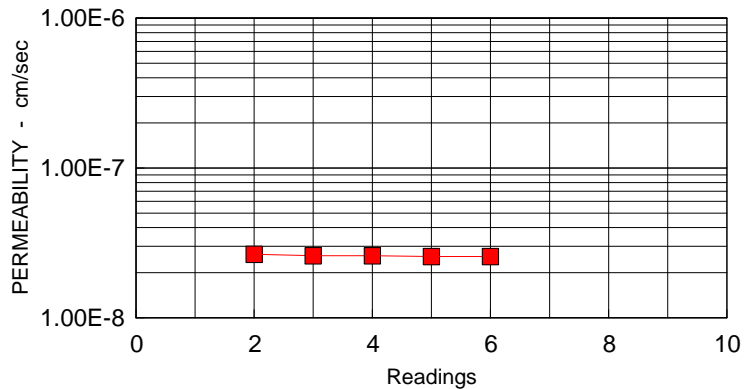
Initial Height ( in ) : 4.60	Final Height ( in ) : 4.60
Initial Diameter ( in ) : 2.00	Final Diameter ( in ) : 2.00
Initial Wet Weight ( g ) : 468.60	Final Wet Weight ( g ) : 475.70
Wet Density ( pcf ) : 123.42	Wet Density ( pcf ) : 125.29
Moisture Content % : 22.80	Moisture Content % : 24.60
Dry Density ( pcf ) : 100.50	Dry Density ( pcf ) : 100.55
Initial Void Ratio : 0.6577	Final Void Ratio : 0.6569
Saturation , % : 92.6	Saturation , % : 100.0

**Test Parameters**

Fluid : De-Aired Water	<b>Effective</b>
Cell Pressure ( psi ) : 65.00	<b>Confining Pressure (psi) : 10</b>
Head Water ( psi ) : 57.00	Gradient : 24.00
Tail Water ( psi ) : 53.00	

**Permeability Input Data**

Flow, Q ( cc ) :	1.10
Length, L ( in ) :	4.60
Area, A ( sqin ) :	3.14
<b>Head, h ( psi ) :</b>	<b>4.00</b>
Time, t ( min ) :	1440.00
Temp, T ( Deg C ) :	20.7



**Computed Permeability**

**PERMEABILITY, K = 2.57E-008 ( cm/sec ) at 20 Degrees C**

**SUMMARY OF FLEX WALL PERMEABILITY  
TEST RESULTS**  
ASTM D-5084 (Method A)



Client : GeoSolutions	Date : 06/11/08
Project Location : National Grid	Job No. : 08LS1293.02
Sample Number : SSM-8	Tested By : RL
Description : 7 Days	Checked By : JB
	Job Refer. :
	Spec. Gravity : 2.69 Assumed

**Physical Property Data**

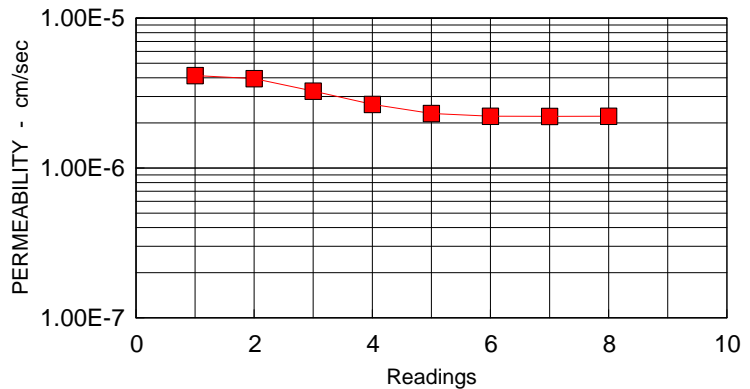
Initial Height ( in ) : 4.25	Final Height ( in ) : 4.25
Initial Diameter ( in ) : 2.00	Final Diameter ( in ) : 2.00
Initial Wet Weight ( g ) : 426.90	Final Wet Weight ( g ) : 424.40
Wet Density ( pcf ) : 121.70	Wet Density ( pcf ) : 120.98
Moisture Content % : 29.50	Moisture Content % : 29.70
Dry Density ( pcf ) : 93.97	Dry Density ( pcf ) : 93.28
Initial Void Ratio : 0.7862	Final Void Ratio : 0.7995
Saturation , % : 100.9	Saturation , % : 99.9

**Test Parameters**

Fluid : De-Aired Water	Effective
Cell Pressure ( psi ) : 65.00	<b>Confining Pressure (psi) : 10</b>
Head Water ( psi ) : 56.90	Gradient : 24.68
Tail Water ( psi ) : 53.10	

**Permeability Input Data**

Flow, Q ( cc ) :	10.50
Length, L ( in ) :	4.25
Area, A ( sqin ) :	3.14
<b>Head, h ( psi ) :</b>	<b>3.80</b>
Time, t ( min ) :	155.00
Temp, T ( Deg C ) :	20.7



**Computed Permeability**

**PERMEABILITY, K = 2.22E-006 ( cm/sec ) at 20 Degrees C**



## Summary of Unconfined Strength Test Results ASTM D-1633

**Client:** Geo-Solutions**Date:** July 10, 2008**Project:** National Grid**Project No.:** 08LS1293.01**Sample Diameter:** 2 inches**Sample Area:** 3.1416 in<sup>2</sup>**Sample Length:** 4 to 4.2 inches

Mix ID	Age Days	Peak Load lbs	Peak Strength psi
SSM 1	3	31	9.9
	11	342	108.9
	28	956	304.3
SSM 2	7	303	96.4
	28	902	287.1
SSM 3	7	290	92.3
SSM 4	7	236	75.1
	28	403	128.3
JG 5	7	48	15.3
JG 6	7	256	81.5
	28	452	143.8
JG 7	7	1165	370.8
	28	2336	743.6
SSM 8	7	73	23.2
	28	144	45.8

# APPENDIX F

## ISS Treatment Verification Documentation



**TABLE C-1  
SUMMARY OF IN-SITU STABILIZATION TREATMENT RESULTS**

**FINAL ENGINEERING REPORT  
LITTLE FALLS (MILLSTREET) NON-OWNED FORMER MGP SITE  
LITTLE FALLS, NEW YORK**

Date	Location ID	Depth (feet bgs)	Volume Treated (CY)
6/9/2009	S-13	15	10.90
	S-14	7.8	5.67
	S-15	11.2	8.14
	S-16	14	10.18
	S-17	13	9.45
	S-22	10	7.27
	S-34	12	8.72
	J1	3.7	NT
	J3	3.3	NT
	J-4	13.5	9.82
	J-5	13.4	9.74
	J-6	12	8.72
	J-19	3.2	NT
6/10/2009	S-18	9.2	6.69
	S-19	8.2	5.96
	S-20	8.7	6.33
	S-21	8.6	6.25
	S-23	9.7	7.05
	S-24	10.8	7.85
	S-25	9.3	6.76
	S-26	8.6	6.25
	S-27	--	NT
	S-28	--	NT
	S-29	20.5	14.90
	S-30	23.4	17.01
	S-31	8.6	6.25
	S-32	7.4	5.38
	S-33	--	NT
6/11/2009	S-1	15.2	11.05
	S-2	8.7	6.33
	S-3	8.9	6.47
	S-4	7.1	5.16
	S-5	16.9	12.29
	S-6	15.4	11.20
	S-7	4.6	3.34
	S-8	17.7	12.87
	S-9	15.6	11.34
	S-10	6.6	4.80
	S-11	2.8	2.04
	S-12	12.3	8.94
	J-17	2.9	NT
	J-18	2.7	NT
<b>Total Volume:</b>			<b>281.12</b>

Notes:

1. In-situ stabilization (ISS) treatment activities were performed by Geo-Solutions Inc.
2. Treatment depths were recorded by Geo-Solutions.
3. bgs = below ground surface
4. SF = square feet
5. CY= cubic yards
6. NT = no treatment due to subsurface obstructions/structures
7. -- = no attempt at ISS treatment due to subsurface obstruction.
8. Jet grouting locations (e.g., J-4, J-5, J-6) were completed as ISS based on the field notes provided by Geo-Solutions.  
ISS location S-22 was treated to 9.2 feet bgs where there was auger refusal. The mixed material was later removed during excavation activities to remove the subsurface obstruction. The obstruction was not removeable so the area was backfilled.

**TABLE C-2  
SUMMARY OF JET GROUTING RESULTS**

**FINAL ENGINEERING REPORT  
LITTLE FALLS (MILLSTREET) NON-OWNED FORMER MGP SITE  
LITTLE FALLS, NEW YORK**

Date	Location ID	Boring Depth (feet bgs)	Refusal Before Target Depth	Soil Jet Grouted Above Bedrock (feet bgs)	Grout Volume (Gallons)	Effective Area (SF)	Soil Volume Jet Grouted (CY)
6/15/2009	J-1	6.70	X	--	--	--	--
	J-2	5.76	X	--	--	--	--
	J-3	5.34	X	--	--	--	--
	J-7	7.66	X	--	--	--	--
	J-8	15.75		4.25	1,350	13.97	2.20
	J-9	17.18		5.68	1,620	13.97	2.94
	J-10	16.58		5.08	2,970	13.97	2.63
	J-11	14.10		5.50	1,620	15.10	3.08
	J-12	12.97		1.47	540	17.72	0.96
	J-13	9.48	X	--	--	--	--
	J-14	9.86	X	--	--	--	--
	J-15	9.95	X	--	--	--	--
	J-16	7.04	X	--	--	--	--
	J-19	11.97		10.47	2,700	13.97	5.42
6/16/2009	S-14	15.28		8.50	1,890	18.49	5.82
	J-17	11.77		10.27	4,860	18.49	7.03
	J-18	15.00		13.50	4,320	19.63	9.82
	S-2	13.30		10.00	2,700	16.23	6.01
	S-3	8.19	X	--	--	--	--
	S-4	5.40	X	--	--	--	--
	S-7	8.60	X	--	--	--	--
6/17/2009	S-10	16.04		12.00	3,240	16.23	7.21
	S-11	8.56	X	--	--	--	--
	S-31	24.20		16.73	5,940	16.23	10.06
	S-32	10.60		4.13	1,350	16.23	2.48
	SB-110	10.50		2.25	810	16.23	1.35
<b>Total Volume:</b>							<b>67.01</b>

Notes:

1. Jet grouting activities were performed by Geo-Solutions Inc.
2. Effective area and boring depths were provided by Geo-Solutions.
3. bgs = below ground surface
4. SF = square feet
5. CY= cubic yards
6. ISS locations S-2, S-3, S-4, S-7, S-10, S-11, S-14, S-31, and S-32 were jet grouted following failed attempts (auger refusal) to treat via ISS.
7. Jet grout and ISS locations with no values other than boring depth indicates the target depth was not reached for that location and no jet grouting was performed.
8. Jet grouting location SB-110 (the approximate location of ISS bench scale study soil boring location SB-110) was performed per the NYSDEC's request during a June 16, 2009 site meeting with the NYSDOH, National Grid, ARCADIS, Feldmeier, Royal Environmental, and Geo-Solutions.



# GEO-SOLUTIONS ISS FORM

LITTLE FALLS, NEW YORK

Location	Depth	Volume Cu. Ft.	Volume Cu. Yds
S1	15.2	298.376	11.05096296
S2	8.7	170.781	6.325222222
S3	8.9	174.707	6.47062963
S4	7.1	139.373	5.161962963
S5	16.9	331.747	12.28692593
S6	15.4	302.302	11.19637037
S7	4.6	90.298	3.34437037
S8	17.7	347.451	12.86855556
S9	15.6	306.228	11.34177778
S10	6.6	129.558	4.798444444
S11	2.8	54.964	2.035703704
S12	12.3	241.449	8.942555556
S13	15	294.45	10.90555556
S14	7.8	153.114	5.670888889
S15	11.2	219.856	8.142814815
S16	14	274.82	10.17851852
S17	13	255.19	9.451481481
S18	9.2	180.596	6.688740741
S19	8.2	160.966	5.961703704
S20	8.7	170.781	6.325222222
S21	8.6	168.818	6.252518519
S22	10	196.3	7.27037037
S23	9.7	190.411	7.052259259
S24	10.8	212.004	7.852
S25	9.3	182.559	6.761444444
S26	8.6	168.818	6.252518519
S27		0	0
S28		0	0
S29	20.5	402.415	14.90425926
S30	23.4	459.342	17.01266667
S31	8.6	168.818	6.252518519
S32	7.4	145.262	5.380074074
S33		0	0
S34	12	235.56	8.724444444
J1		0	0
J2		0	0
J3		0	0
J4	13.5	265.005	9.815
J5	13.4	263.042	9.742296296
J6	12	235.56	8.724444444
J7		0	0
J8		0	0
J9		0	0
J10		0	0
J11		0	0
J12		0	0
J13		0	0
J14		0	0
J15		0	0
J16		0	0
J17		0	0
J18		0	0
J19		7590.921	281.1452222

GEO-SOLUTIONS INC.

P-722  
NATIONAL GRID  
Little Falls, NY

Jet Grout Form

Date: 06/15/09

Column #	Time Start	Time Complete	Drilling Depth	Grouting LF	Grout Gallons	Grout Pressure	Lift Rate	Comments
J-16	9:00	9:10	7.04	0	0	5000	1ft/min	Refusal before reaching full depth
J-15	9:15	9:25	9.95	0	0	5000	1ft/min	Refusal before reaching full depth
J-11	13:37	13:43	<del>12.72</del> 14.1	5.5	1620	5000	1ft/min	
J-10	14:27	14:38	16.58	5.08	2970	5000	1ft/min	
J-14	9:40	9:44	9.86	0	0	5000	1ft/min	Refusal before reaching full depth
J-9	14:44	14:50	17.18	5.68	1620	5000	1ft/min	
J-1	10:20	10:50	<del>6.00</del> 6.7	0	0	5000	1ft/min	Refusal before reaching full depth
J-3	10:55	11:10	5.34	0	0	5000	1ft/min	Refusal before reaching full depth
J-19	15:11	15:21	11.97	10.47	2700	5000	1ft/min	
J-12	15:28	15:30	12.97	1.47	540	5000	1ft/min	
J-8	15:54	15:59	15.75	4.25	1350	5000	1ft/min	
J-2	12:41	12:50	5.76	0	0	5000	1ft/min	Refusal before reaching full depth
J-7	12:52	12:58	7.66	0	0	5000	1ft/min	Refusal before reaching full depth
S-14	16:05	16:12	15.28	8.5	1890	5000	1ft/min	
J-13	14:55	15:05	9.48	0	0	5000		Refusal before reaching full depth

Driller: Bob Huffman

GEO-SOLUTIONS INC.

**P-722**  
**NATIONAL GRID**  
**Little Falls, NY**

**Jet Grout Form**

Date: 06/16/09

Column #	Time Start	Time Complete	Drilling Depth	Grouting LF	Grout Gallons	Grout Pressure	Lift Rate	Comments
J-18	12:09	12:25	15	13.5	4320	5000	1ft/min	
S-11	9:44	9:50	8.56	0	0	5000	1ft/min	Refusal before reaching full depth
J-17	12:30	12:48	11.77	10.27	4860	5000	1ft/min	
S-10	12:50	13:02	16.04	12	3240	5000	1ft/min	
S-7	10:18	10:26	8.60	0	0	5000	1ft/min	Refusal before reaching full depth
S-3	10:30	10:36	8.19	0	0	5000	1ft/min	Refusal before reaching full depth
S-2	13:08	13:18	13.3 13.16	10	2700	5000	1ft/min	
S-4	10:55	11:04	5.45	0	0	5000	1ft/min	Refusal before reaching full depth

Driller: Bob Huffman

GEO-SOLUTIONS INC.

P-722  
NATIONAL GRID  
Little Falls, NY

Jet Grout Form

Date: 06/17/09

Column #	Time Start	Time Complete	Drilling Depth	Grouting LF	Grout Gallons	Grout Pressure	Lift Rate	Comments
S-32	14:29	14:34	10.6	4.13	1350	5000	1ft/min	
S-31	13:58	14:20	24.2	16.73	5940	5000	1ft/min	Made two attempts to reach full depth
SB-110	14:41	14:44	10.5 <del>9.45</del>	2.25	810	5000	1ft/min	Made two attempts to reach full depth

Driller: Bob Huffman



Little Falls, NY

Batch Plant Form

Date: 6/9/2009

1.25 W/C Ratio  
Water= 333 Kilos  
Cement=267 Kilos  
Bentonite=13 Kilos

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	9:10	90.5						
5	10:00	90.5				Type #1	Load #1	Load #2
10	10:20	90.5				Time	8:00 AM	
15	10:38	90.5				Tons	30.34	
20	11:13	90.5					6/3/2009	
25	11:31	90.5						
30	11:50	90.5					1:30	2-2x3
35	12:10	90.5						3-3x6
40	12:25	90.5						
45	12:45	90.5						
50	1:35	90.5						
55	2:00	90.5				58 Total		
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110								

# Geo Solutions Soil Mixing



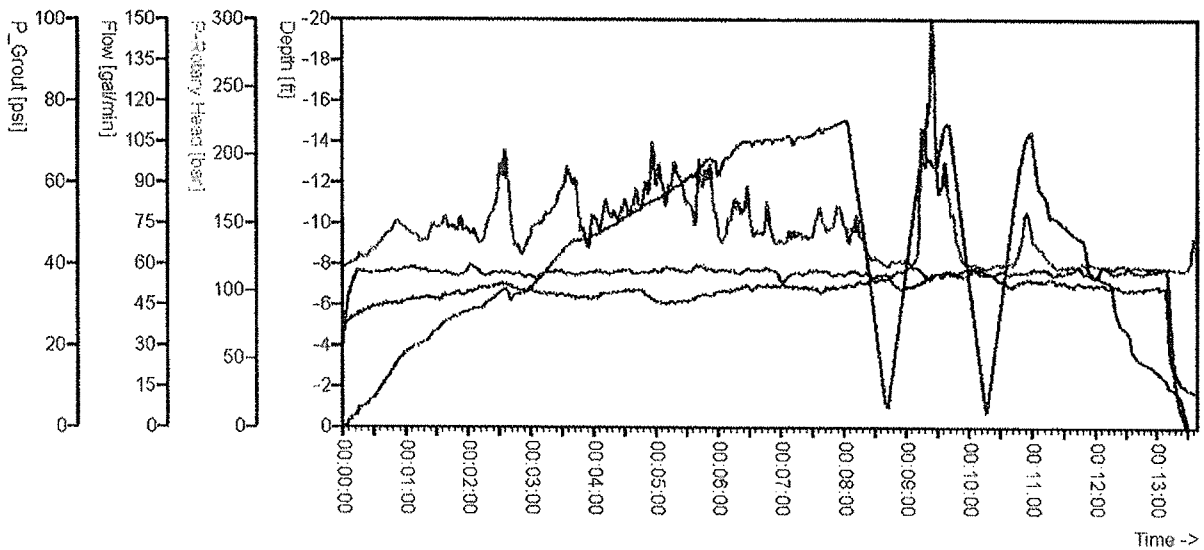
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

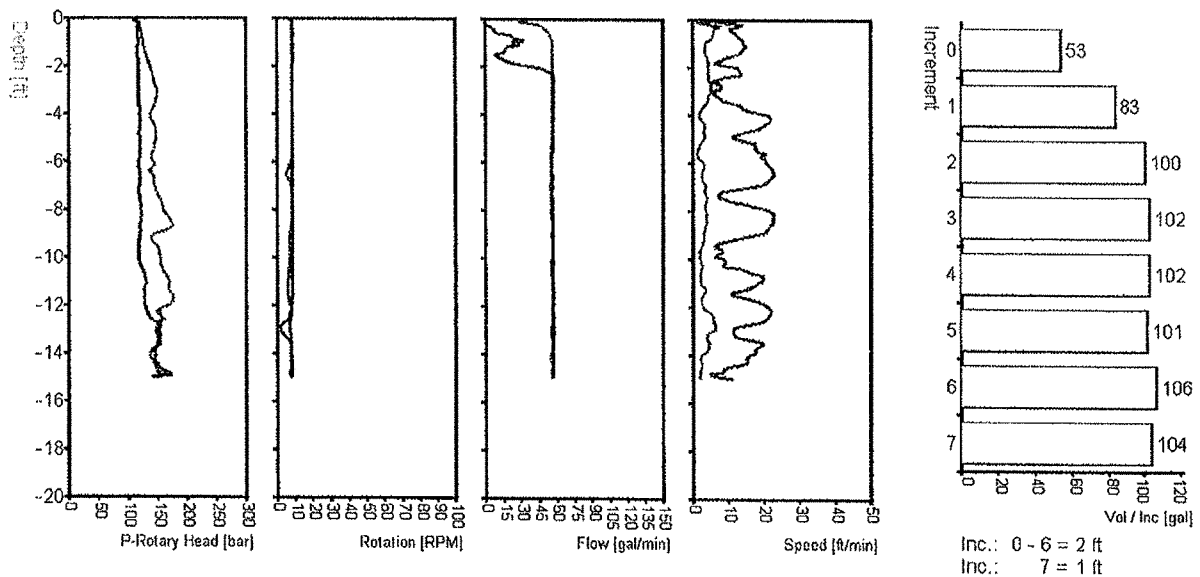
## Data for Pile No: S13

Date: 6/9/2009  
Starttime: 1:25:56 PM  
Endtime: 1:39:33 PM  
Totaltime: 00:13:37  
Pausetime: 00:00:00  
Pilelength: 15 ft  
Work pad elevation: 352.9 ft  
Total Volume: 756 gal  
Strokes: 3  
Inclination (X/Y): -0.6° / -0.4°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



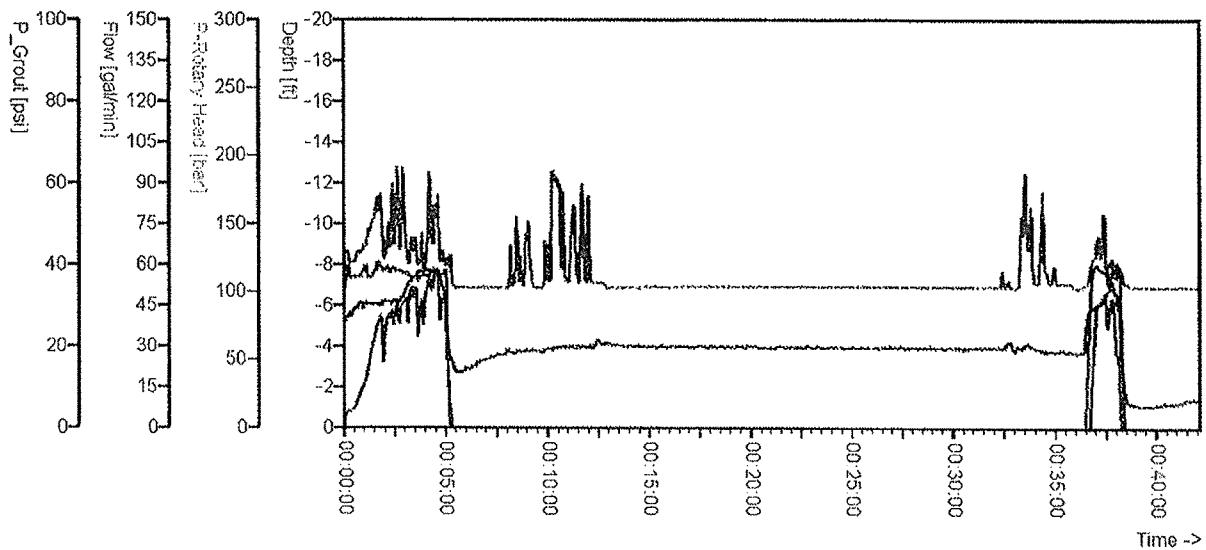
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

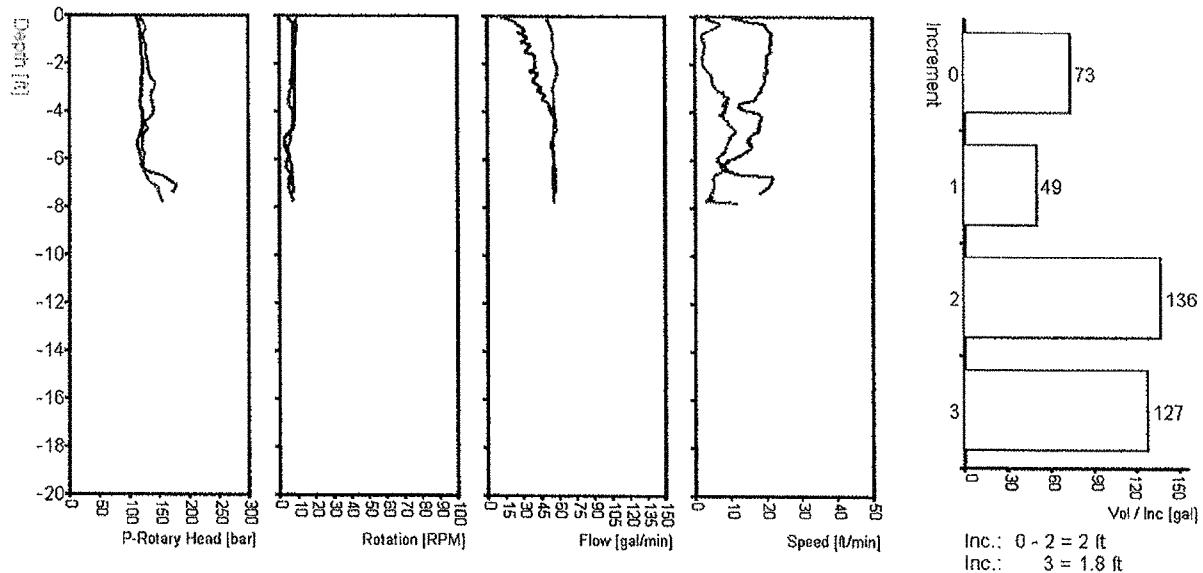
## Data for Pile No: S14

Date: 6/9/2009  
Starttime: 12:40:55 PM  
Endtime: 1:22:58 PM  
Totaltime: 00:42:03  
Pausetime: 00:00:00  
Pilelength: 7.8 ft  
Work pad elevation: 352.9 ft  
Total Volume: 389 gal  
Strokes: 2  
Inclination (X/Y): -0.1° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



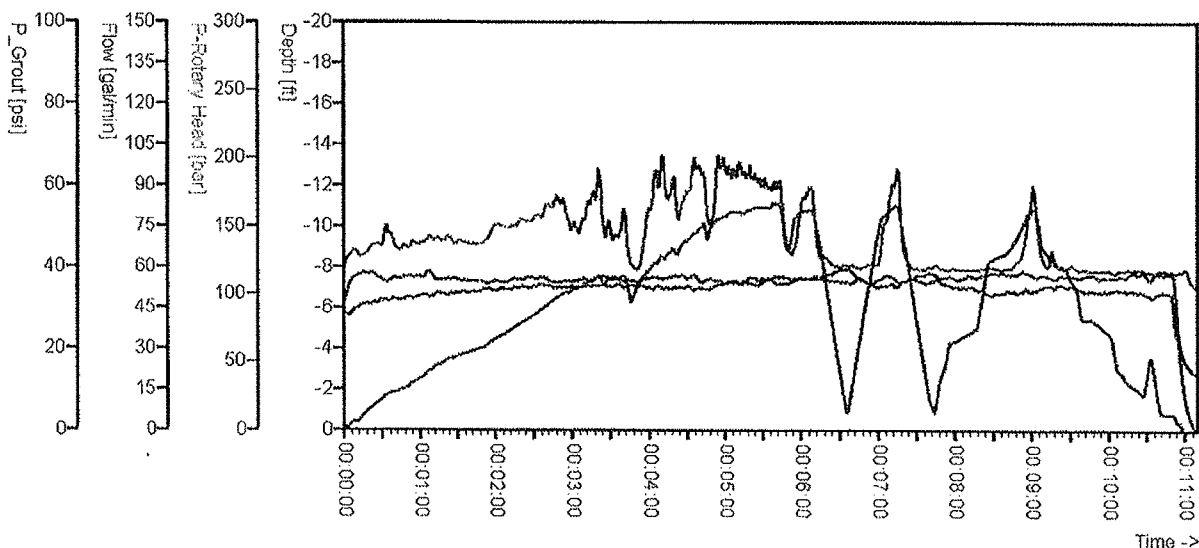
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

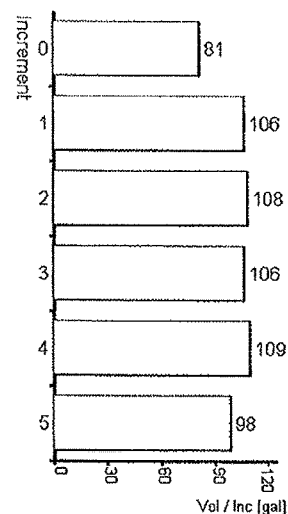
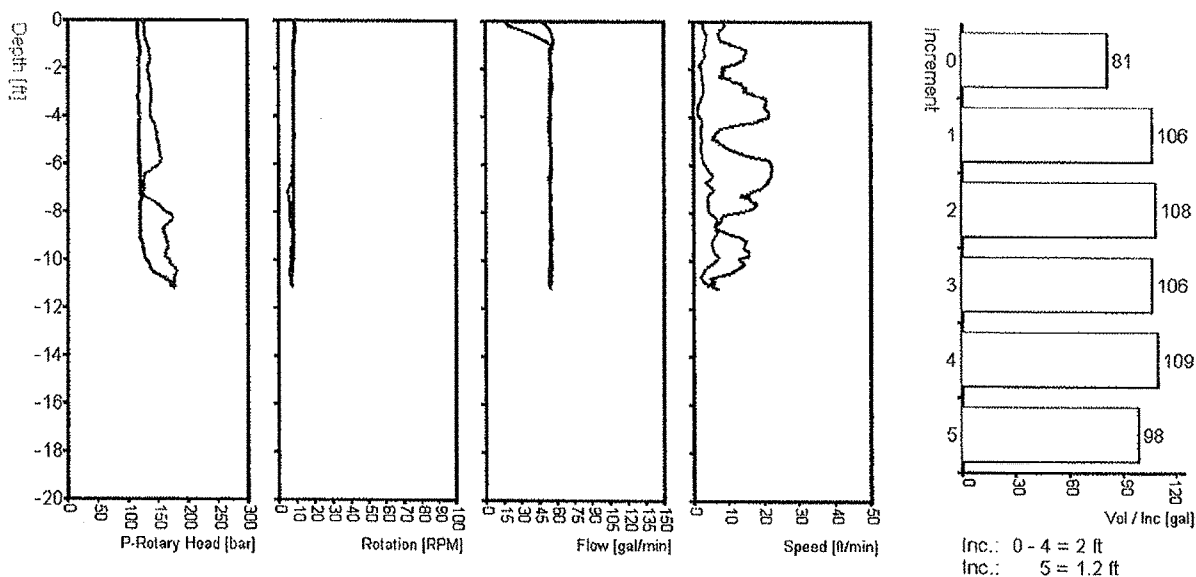
## Data for Pile No: S15

Date: 6/9/2009  
Starttime: 12:26:35 PM  
Endtime: 12:37:43 PM  
Totaltime: 00:11:08  
Pausetime: 00:00:00  
Pilelength: 11.2 ft  
Work pad elevation: 352.9 ft  
Total Volume: 610 gal  
Strokes: 3  
Inclination (X/Y): 0.1° / -0.1°

## Timediagram



## Depthdiagram



Inc.: 0 - 4 = 2 ft  
Inc.: 5 = 1.2 ft



# Geo Solutions Soil Mixing



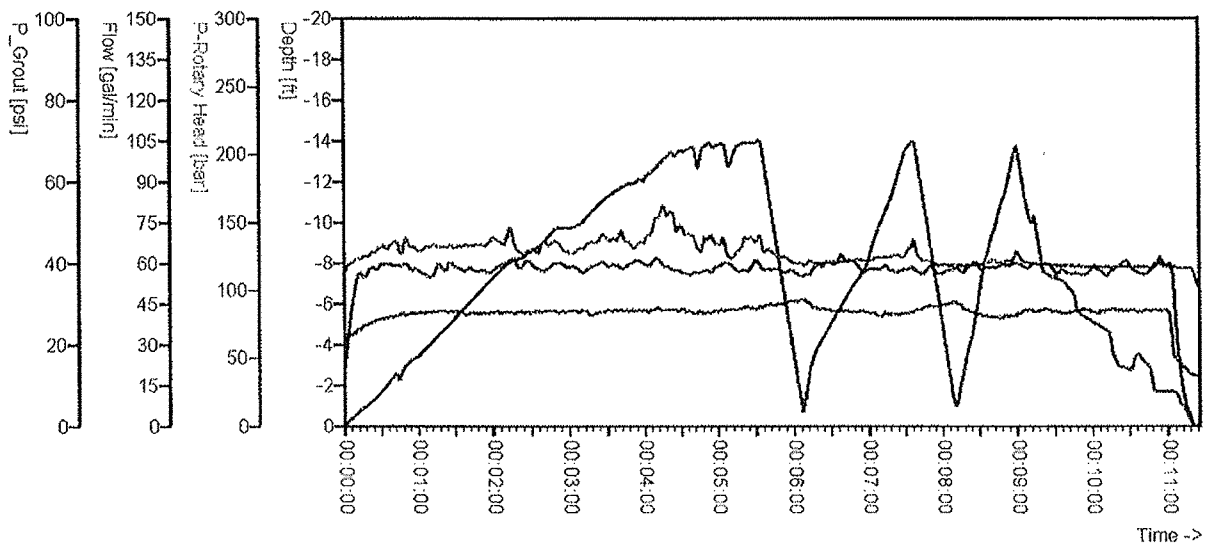
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

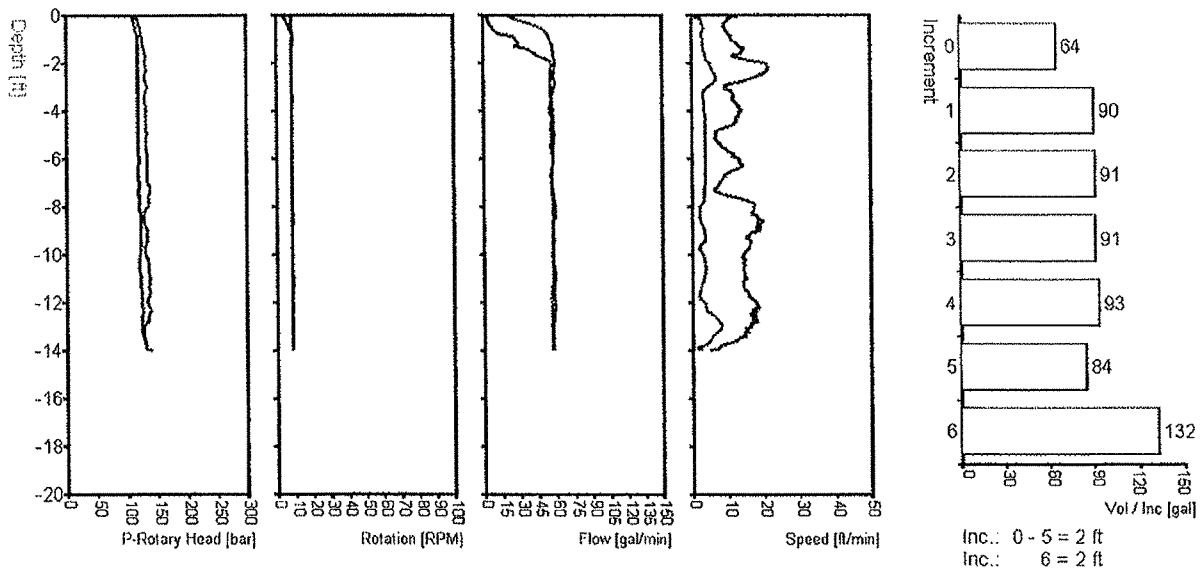
## Data for Pile No: S16

Date: 6/9/2009  
Starttime: 11:32:56 AM  
Endtime: 11:44:19 AM  
Totaltime: 00:11:23  
Pausetime: 00:00:00  
Pilelength: 14 ft  
Work pad elevation: 352.9 ft  
Total Volume: 646 gal  
Strokes: 3  
Inclination (X/Y): -0.4° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



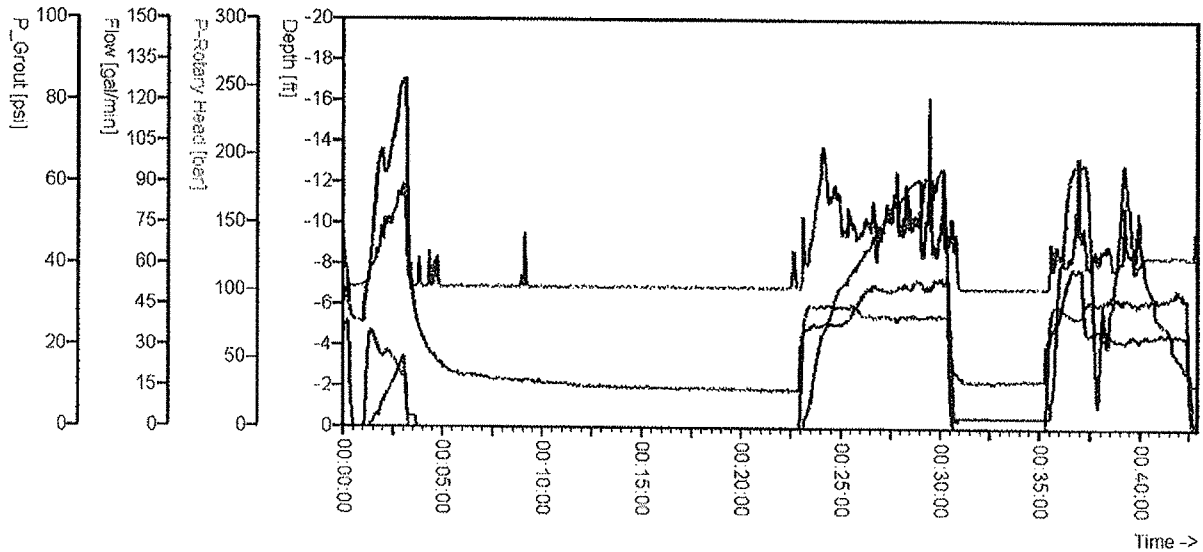
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

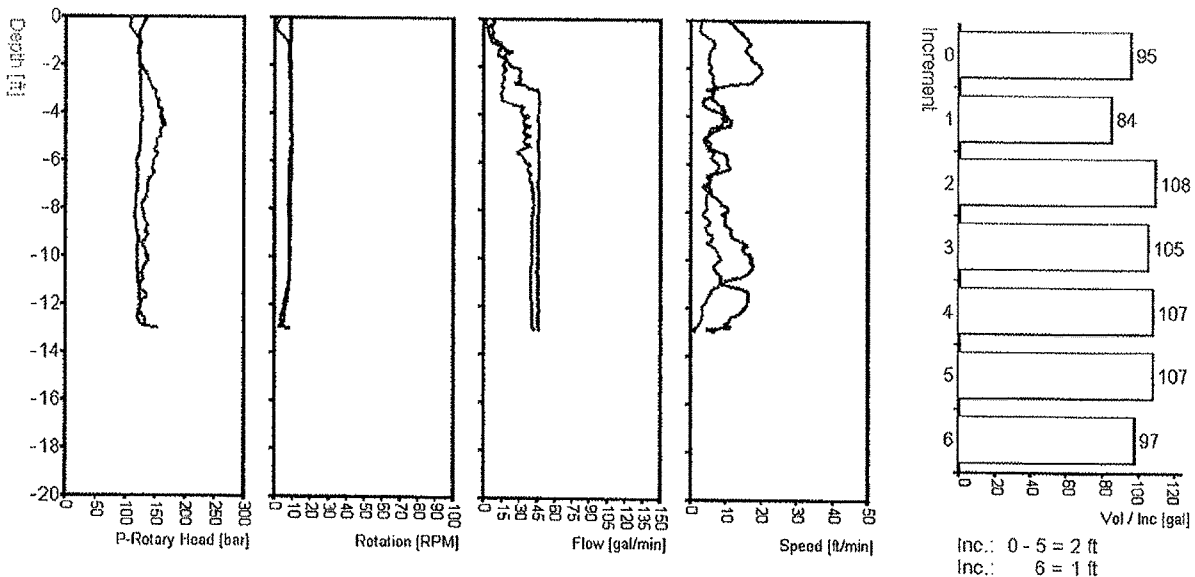
## Data for Pile No: S17

Date: 6/9/2009  
Starttime: 9:32:37 AM  
Endtime: 10:15:29 AM  
Totaltime: 00:42:52  
Pausetime: 00:00:00  
Pilelength: 13 ft  
Work pad elevation: 352.9 ft  
Total Volume: 707 gal  
Strokes: 3  
Inclination (X/Y): 0° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



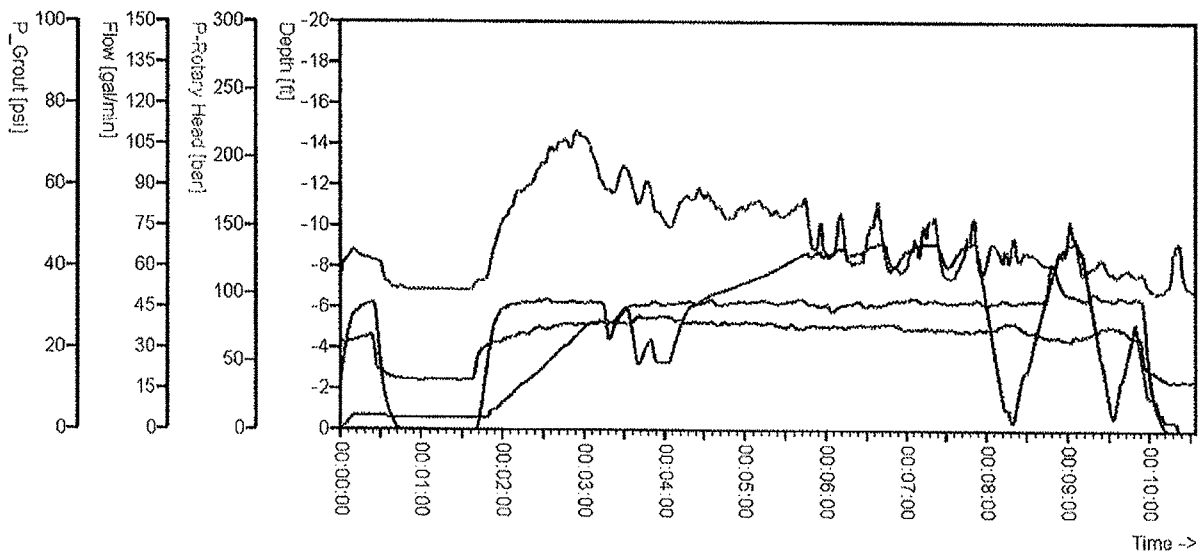
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

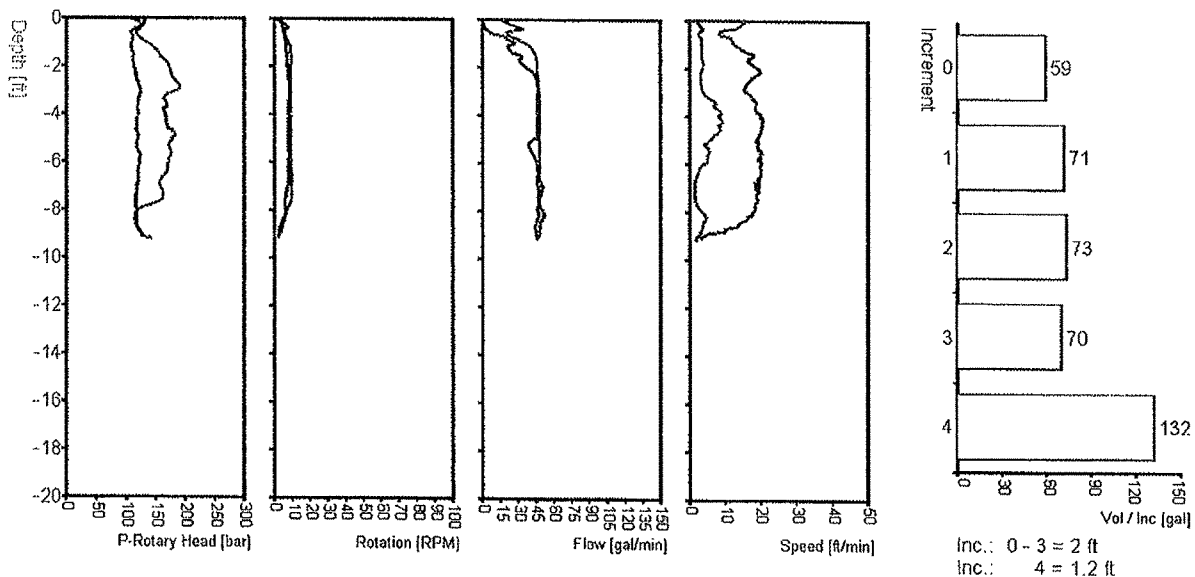
## Data for Pile No: S22

Date: 6/9/2009  
Starttime: 10:25:04 AM  
Endtime: 10:35:36 AM  
Totaltime: 00:10:32  
Pausetime: 00:00:00  
Pilelength: 9.2 ft  
Work pad elevation: 352.9 ft  
Total Volume: 406 gal  
Strokes: 2  
Inclination (X/Y): 0.1° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



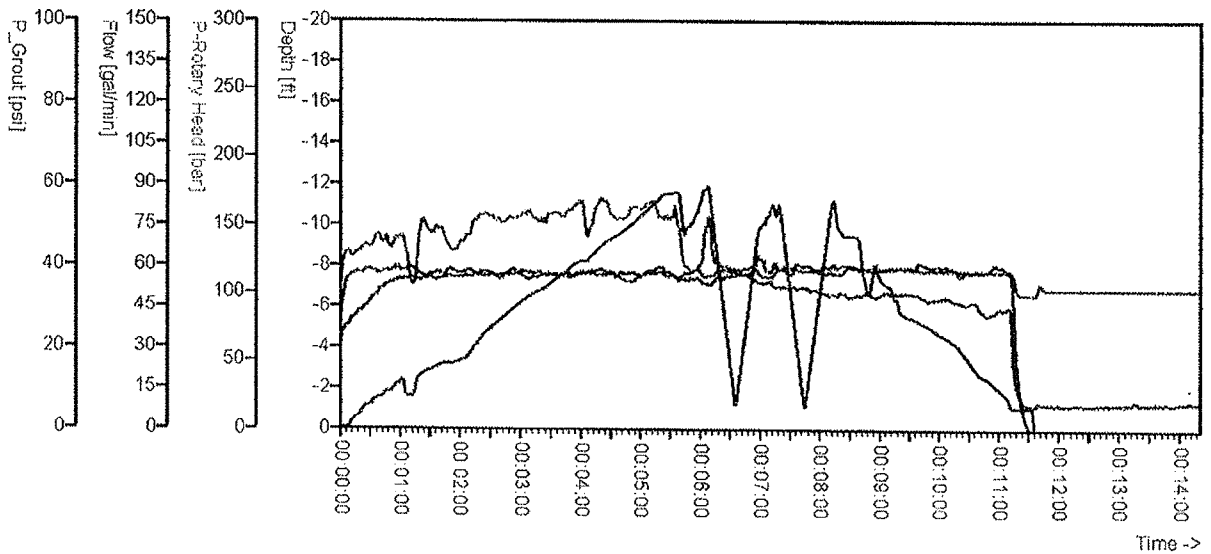
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

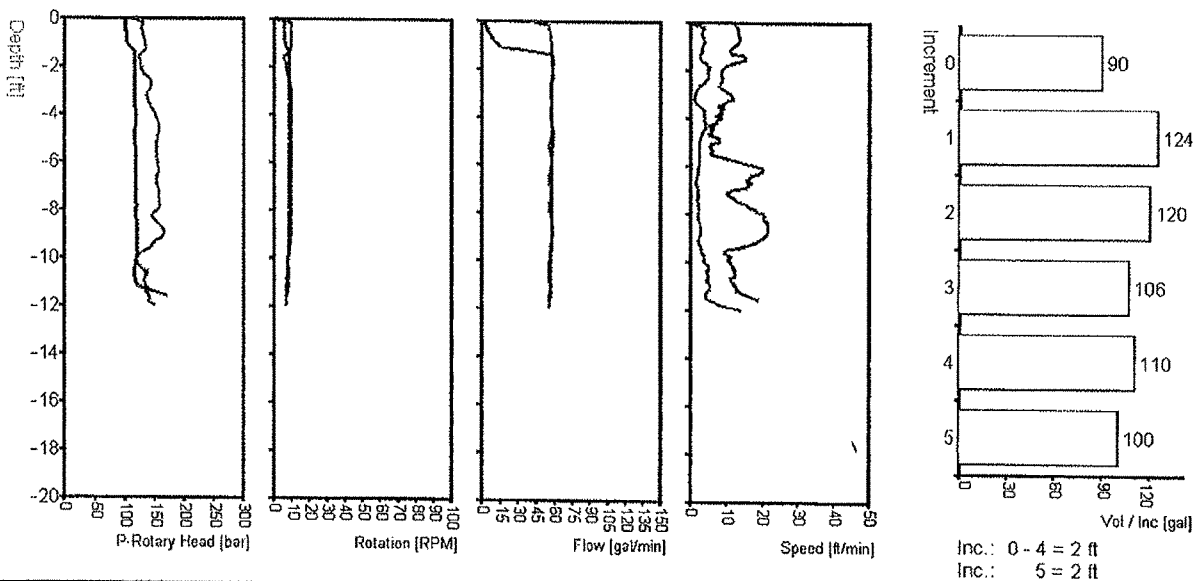
## Data for Pile No: S34

Date: 6/9/2009  
Starttime: 1:50:55 PM  
Endtime: 2:05:14 PM  
Totaltime: 00:14:19  
Pausetime: 00:00:00  
Pilelength: 12 ft  
Work pad elevation: 352.9 ft  
Total Volume: 653 gal  
Strokes: 3  
Inclination (X/Y): -0.5° / -0.4°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



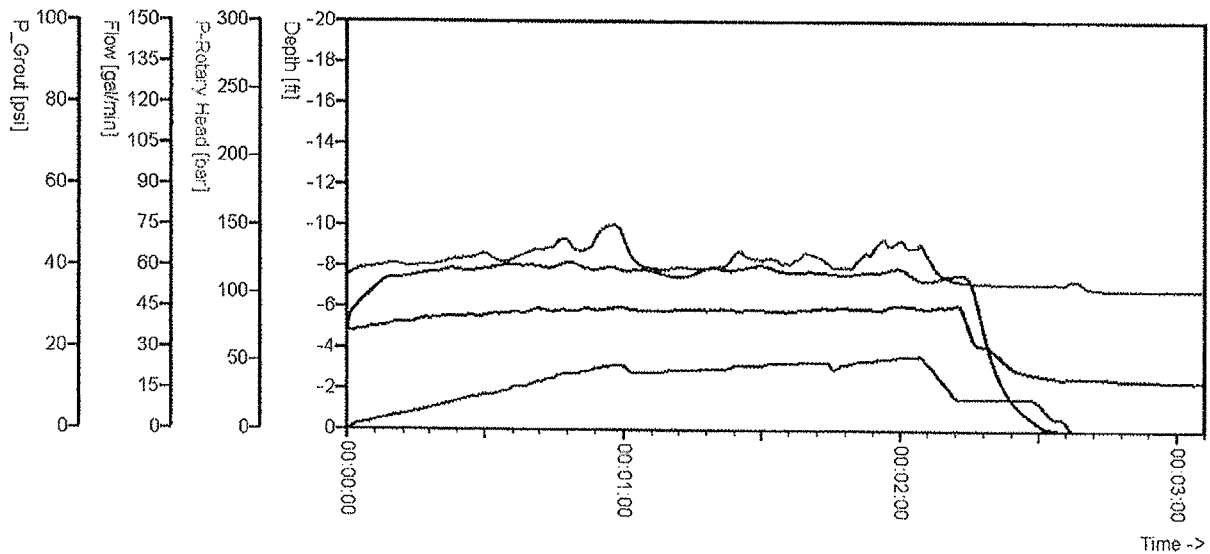
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

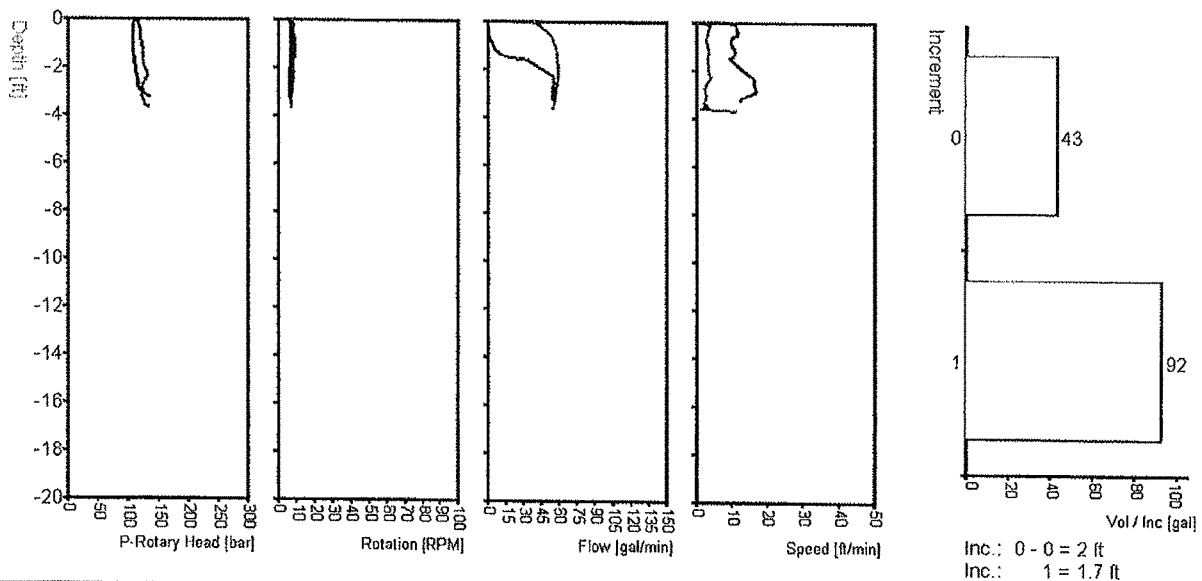
## Data for Pile No: J1

Date: 6/9/2009  
Starttime: 12:01:27 PM  
Endtime: 12:04:31 PM  
Totaltime: 00:03:04  
Pausetime: 00:00:00  
Pilelength: 3.7 ft  
Work pad elevation: 352.9 ft  
Total Volume: 135 gal  
Strokes: 1  
Inclination (X/Y): -0.3° / -0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



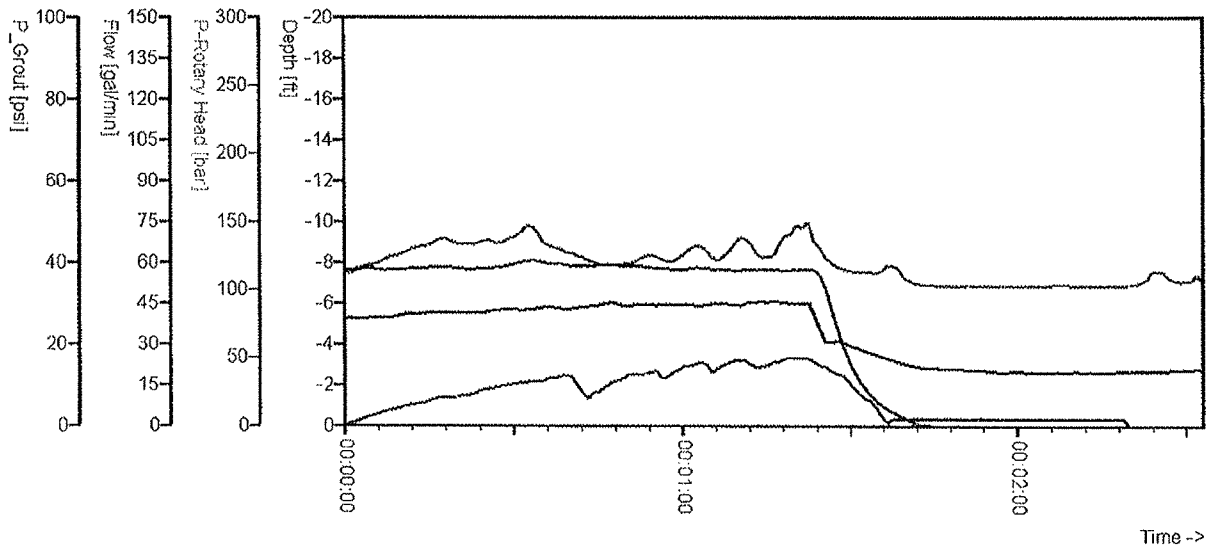
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

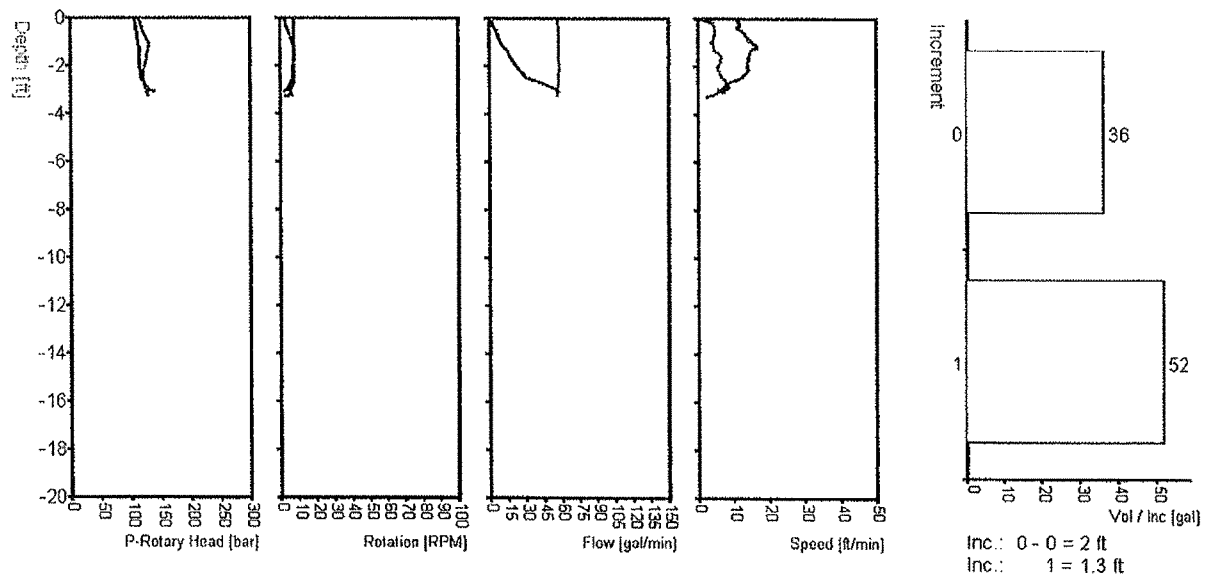
## Data for Pile No: J3

Date: 6/9/2009  
Starttime: 12:09:48 PM  
Endtime: 12:12:20 PM  
Totaltime: 00:02:32  
Pausetime: 00:00:00  
Pilelength: 3.3 ft  
Work pad elevation: 352.9 ft  
Total Volume: 88 gal  
Strokes: 1  
Inclination (X/Y): -0.9° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



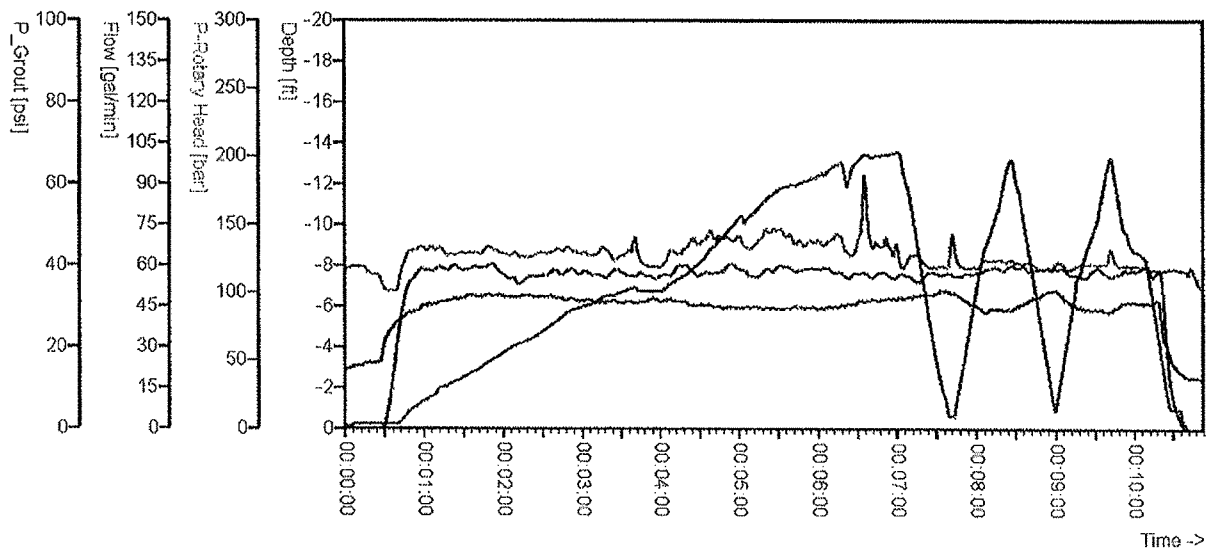
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

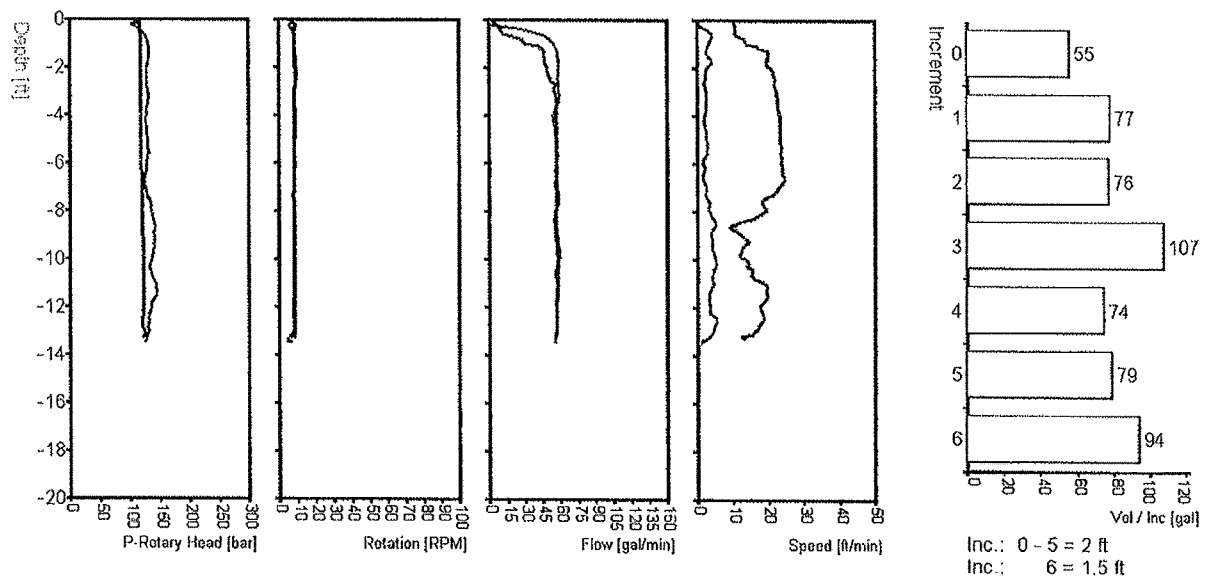
## Data for File No: J4

Date: 6/9/2009  
Starttime: 11:47:37 AM  
Endtime: 11:58:28 AM  
Totaltime: 00:10:51  
Pausetime: 00:00:00  
Pilelength: 13.5 ft  
Work pad elevation: 352.9 ft  
Total Volume: 563 gal  
Strokes: 3  
Inclination (X/Y): -0.3° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



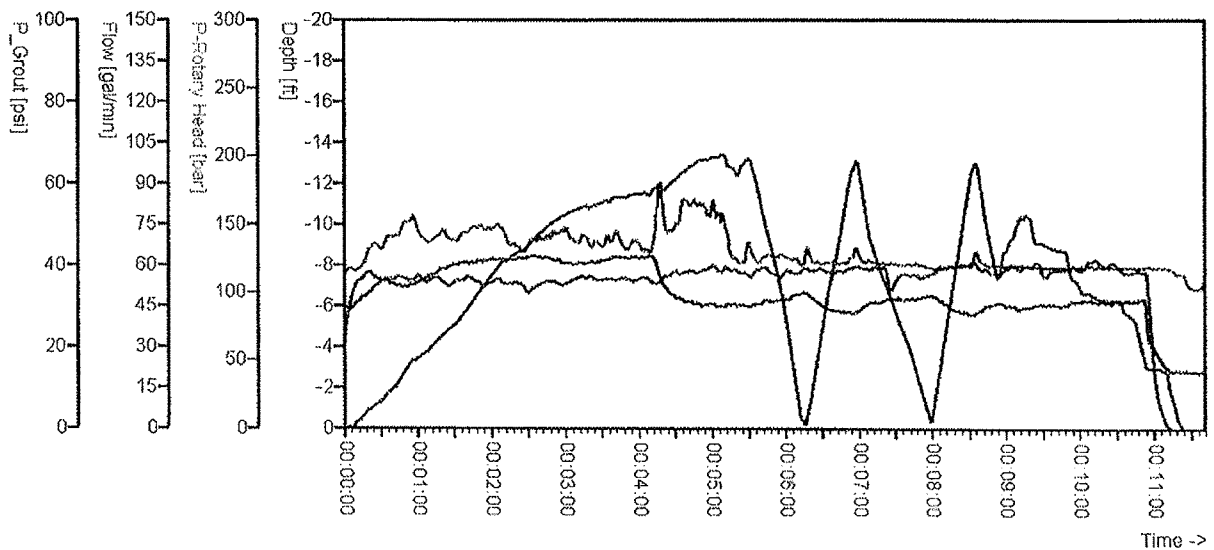
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

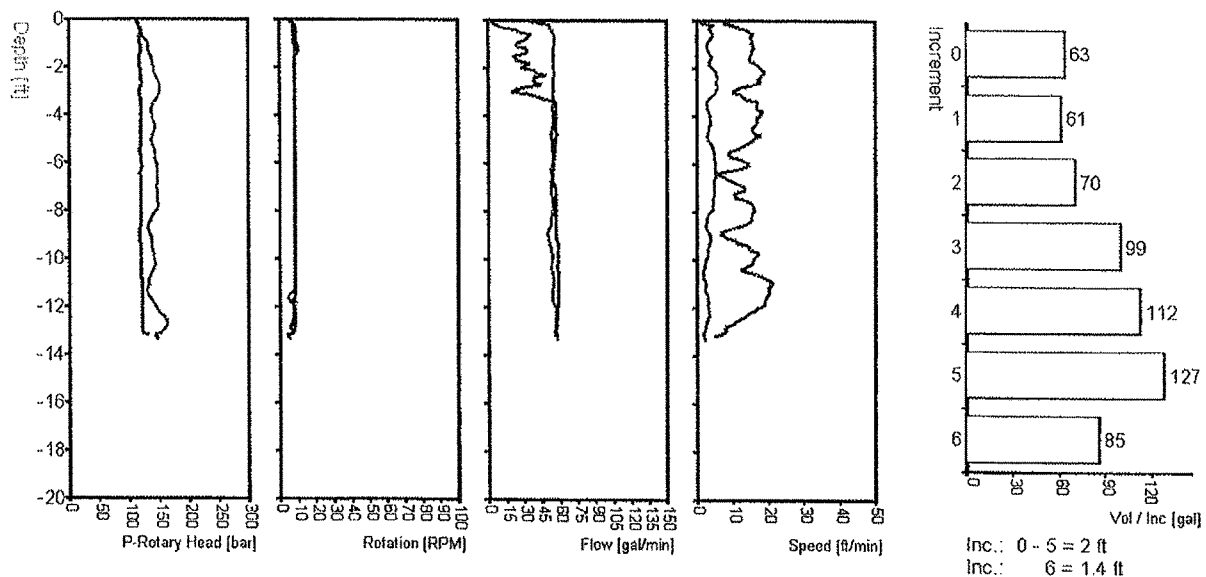
## Data for Pile No: J5

Date: 6/9/2009  
Starttime: 11:19:10 AM  
Endtime: 11:30:50 AM  
Totaltime: 00:11:40  
Pausetime: 00:00:00  
Pilelength: 13.4 ft  
Work pad elevation: 352.9 ft  
Total Volume: 620 gal  
Strokes: 3  
Inclination (X/Y): 0.1° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



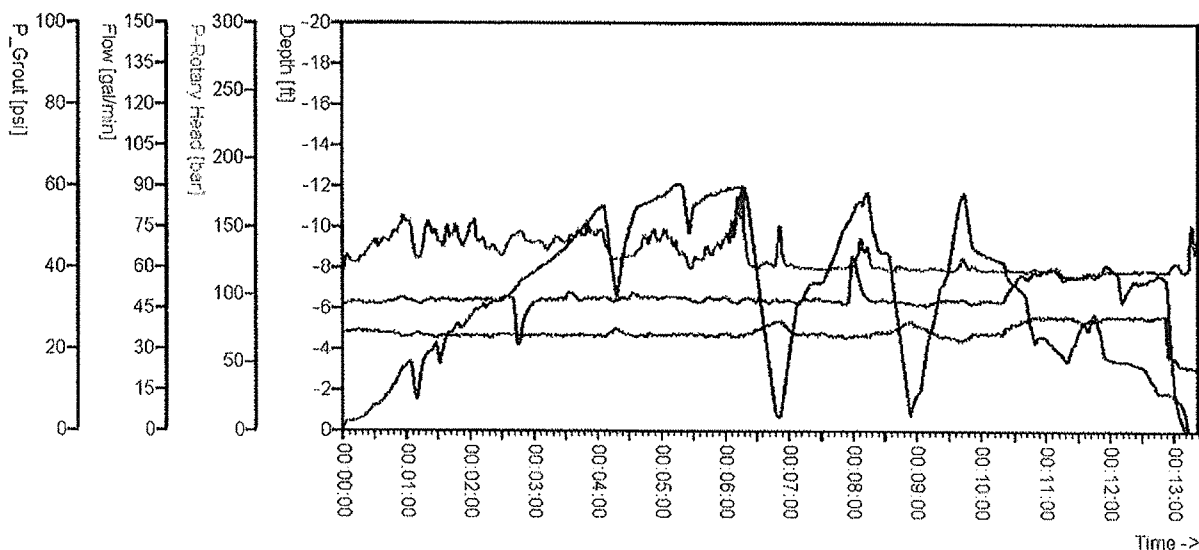
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

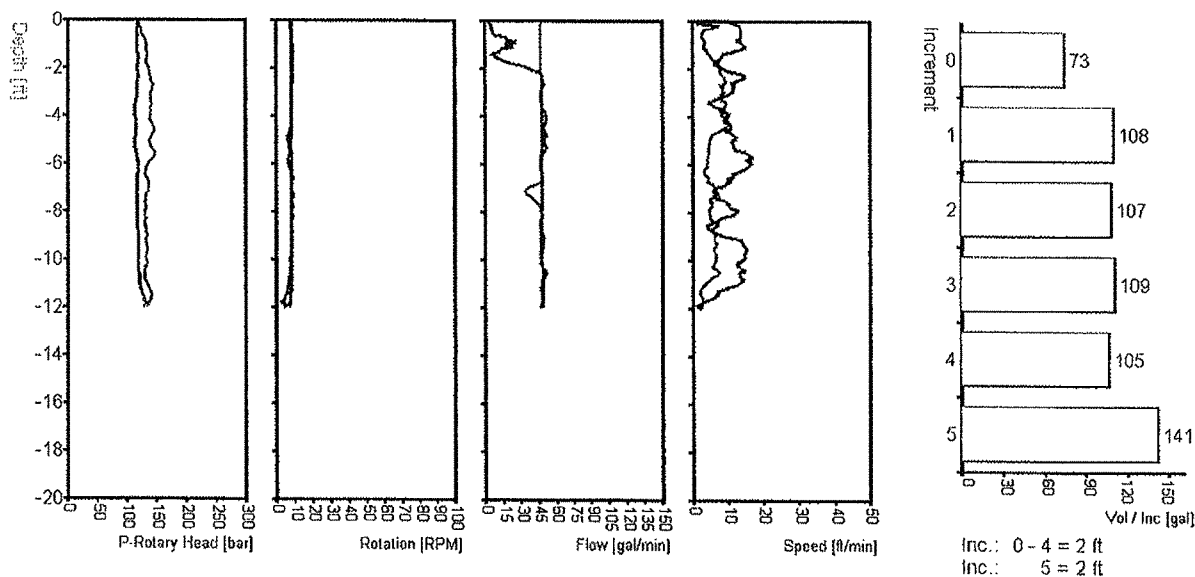
## Data for Pile No: 530 56

Date: 6/9/2009  
Starttime: 10:53:05 AM  
Endtime: 11:06:26 AM  
Totaltime: 00:13:21  
Pausetime: 00:00:00  
Pilelength: 12 ft  
Work pad elevation: 352.9 ft  
Total Volume: 647 gal  
Strokes: 3  
Inclination (X/Y): 0.8° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



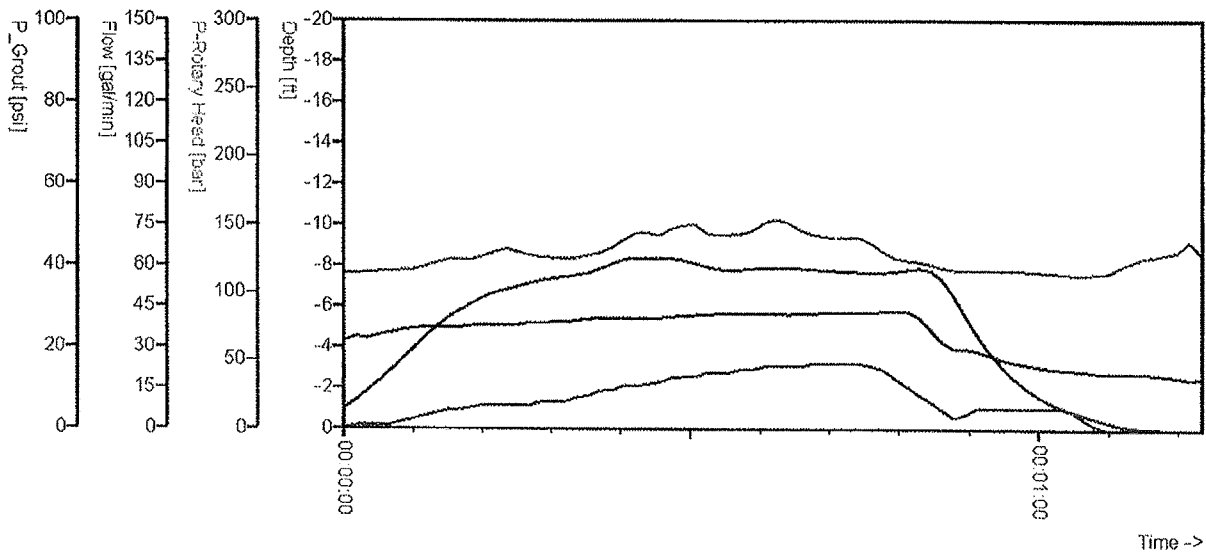
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

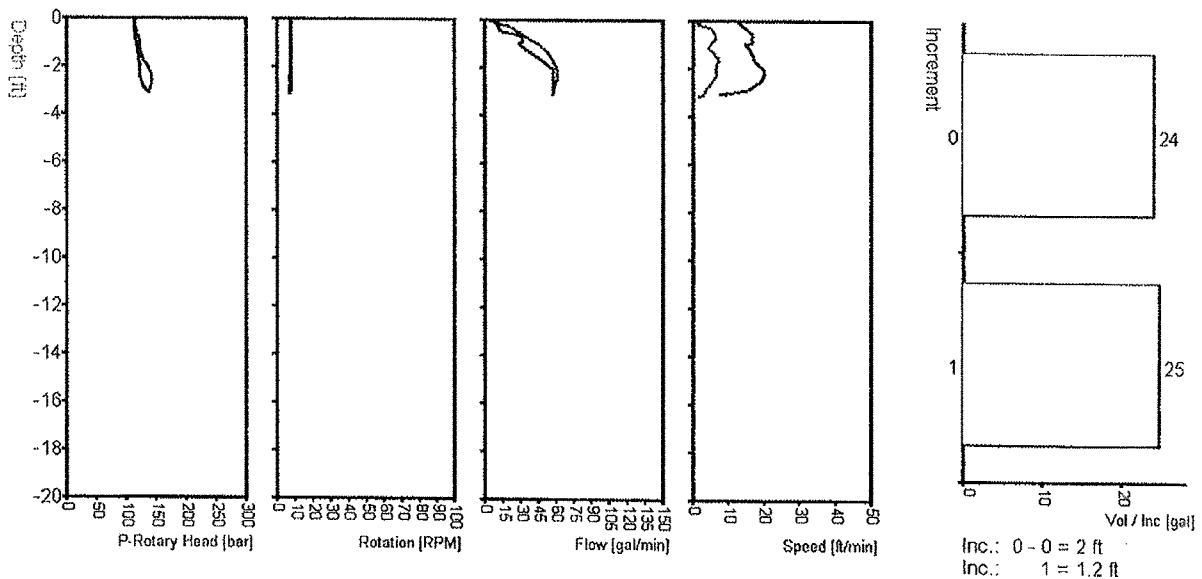
## Data for File No: 519

Date: 6/9/2009  
Starttime: 12:19:03 PM  
Endtime: 12:20:16 PM  
Totaltime: 00:01:13  
Pausetime: 00:00:00  
Pilelength: 3.2 ft  
Work pad elevation: 352.9 ft  
Total Volume: 49 gal  
Strokes: 1  
Inclination (X/Y): -0.3° / -0.1°

## Timediagram



## Depthdiagram





GEO-SOLUTIONS INC.

Little Falls, NY

Batch Plant Form

Date: 6/10/2009

1.25 W/C Ratio  
Water= 333 Kilos  
Cement=267 Kilos  
Bentonite=13 Kilos

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	9:10	90.5				Type #1	Load #1	Lot #1
5	9:35	90.5				Time	10:00 AM	
10	10:10	90.5				Tons	25.14	
15	10:21	90.5					6/10/2008	
20	10:32	90.5				Grout	Samples	
25	10:48	90.5				Time	12:30	2-2x3
30	11:02	90.5					S-29	3-3x6
35	11:30	90.5						
40	11:45	90.5						
45	12:00	90.5						
50	12:35	90.5						
55	1:45	90.5				58 Total		
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110								

# Geo Solutions Soil Mixing



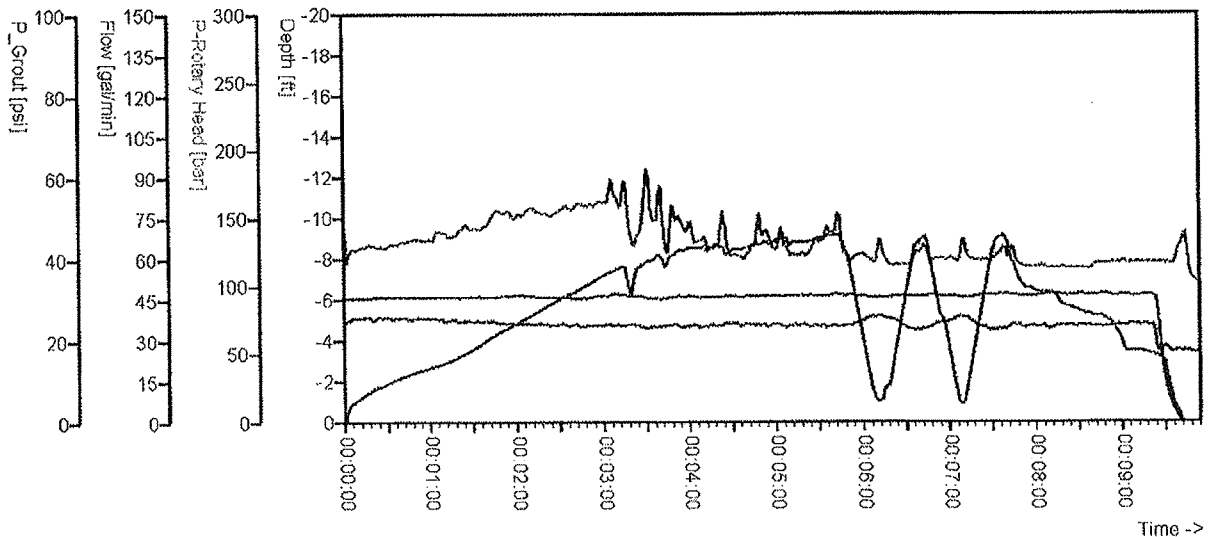
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

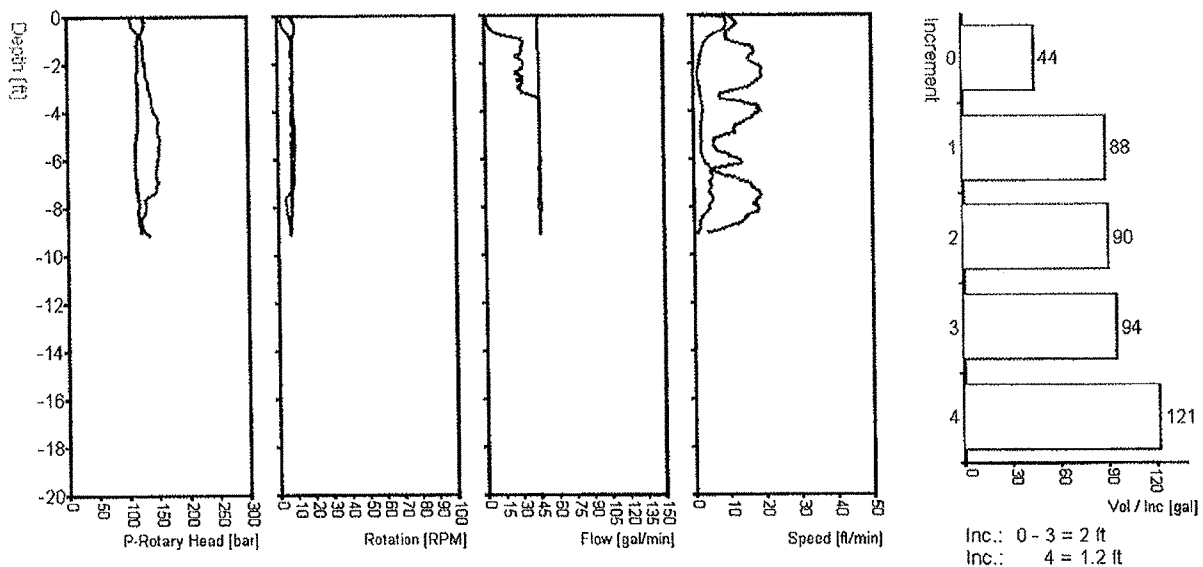
## Data for Pile No: S18

Date: 6/10/2009  
Starttime: 1:32:38 PM  
Endtime: 1:42:31 PM  
Totaltime: 00:09:53  
Pausetime: 00:00:00  
Pilelength: 9.2 ft  
Work pad elevation: 353.2 ft  
Total Volume: 438 gal  
Strokes: ~~138~~ 136  
Inclination (X/Y): -0.2° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



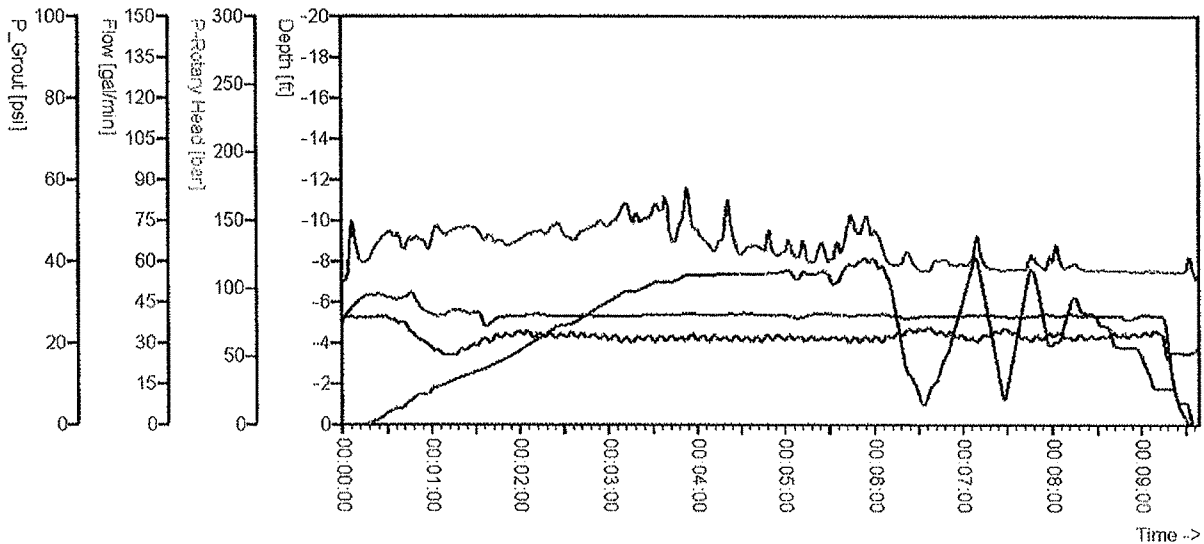
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

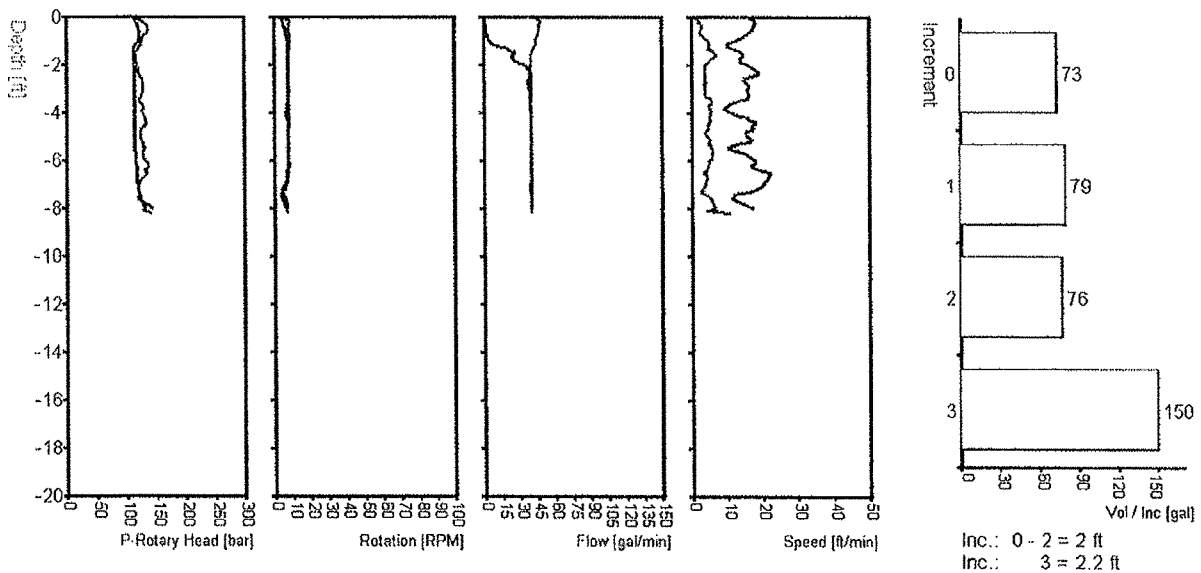
## Data for Pile No: S19

Date: 6/10/2009  
Starttime: 11:34:32 AM  
Endtime: 11:44:09 AM  
Totaltime: 00:09:37  
Pausetime: 00:00:00  
Pilelength: 8.2 ft  
Work pad elevation: 353.2 ft  
Total Volume: 380 gal  
Strokes: 1245  
Inclination (X/Y): -0.2° / -0.4°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



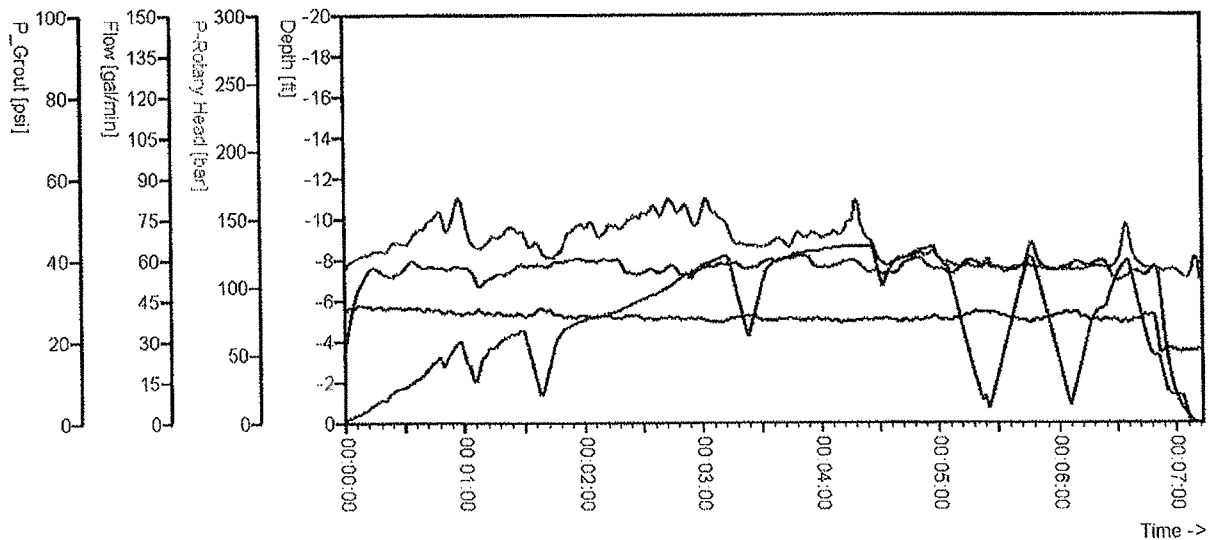
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

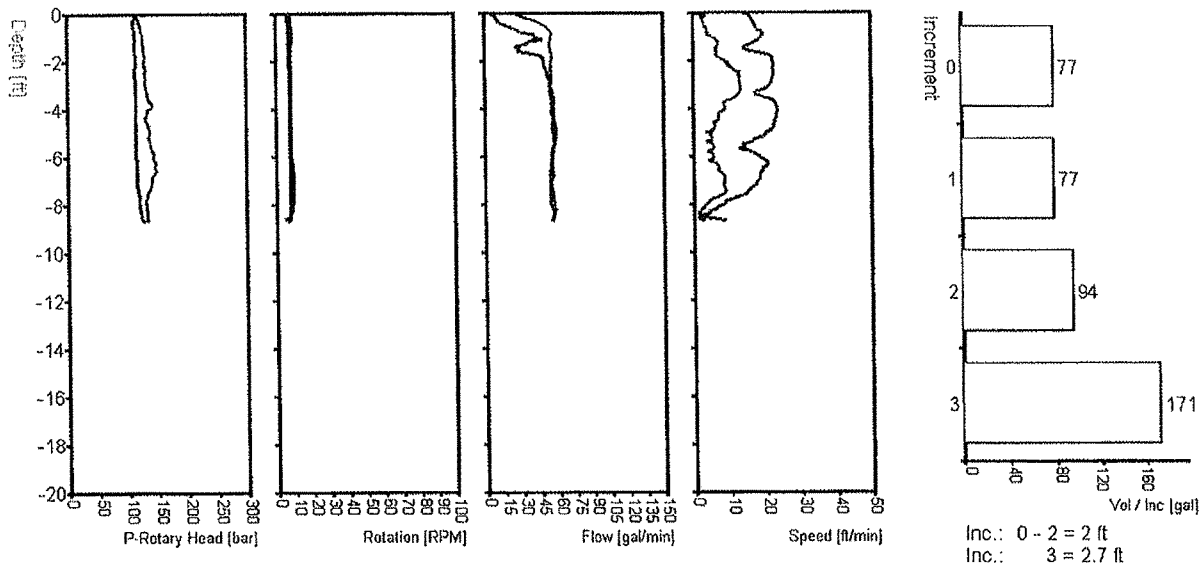
## Data for Pile No: S20

Date: 6/10/2009  
Starttime: 10:17:35 AM  
Endtime: 10:24:46 AM  
Totaltime: 00:07:11  
Pausetime: 00:00:00  
Pilelength: 8.7 ft  
Work pad elevation: 353.2 ft  
Total Volume: 393 gal  
Strokes: ~~23~~ 45  
Inclination (X/Y): -0.7° / -0.5°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



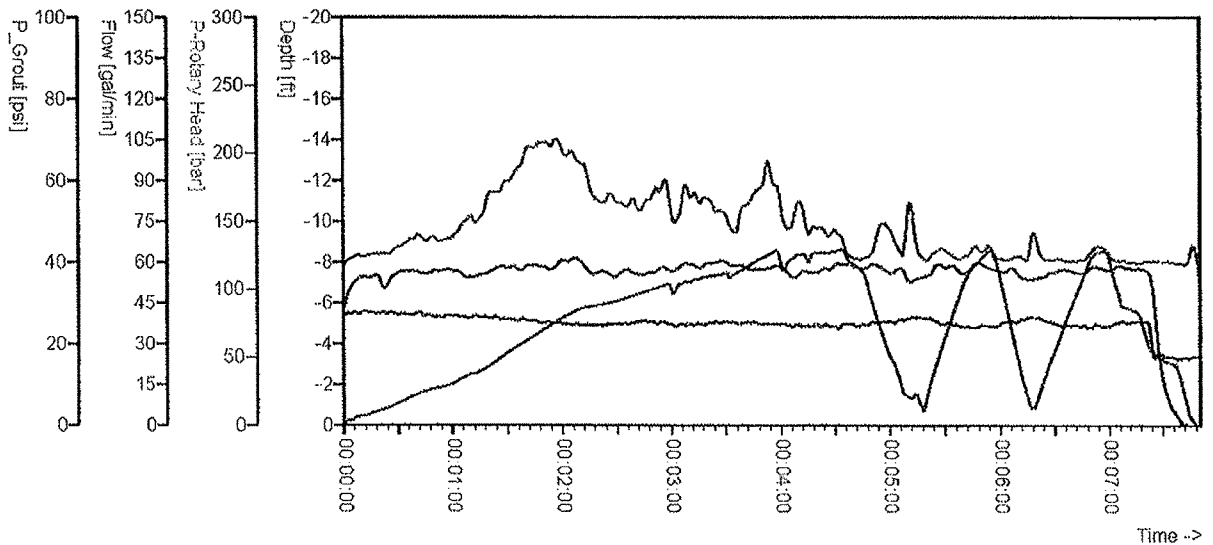
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

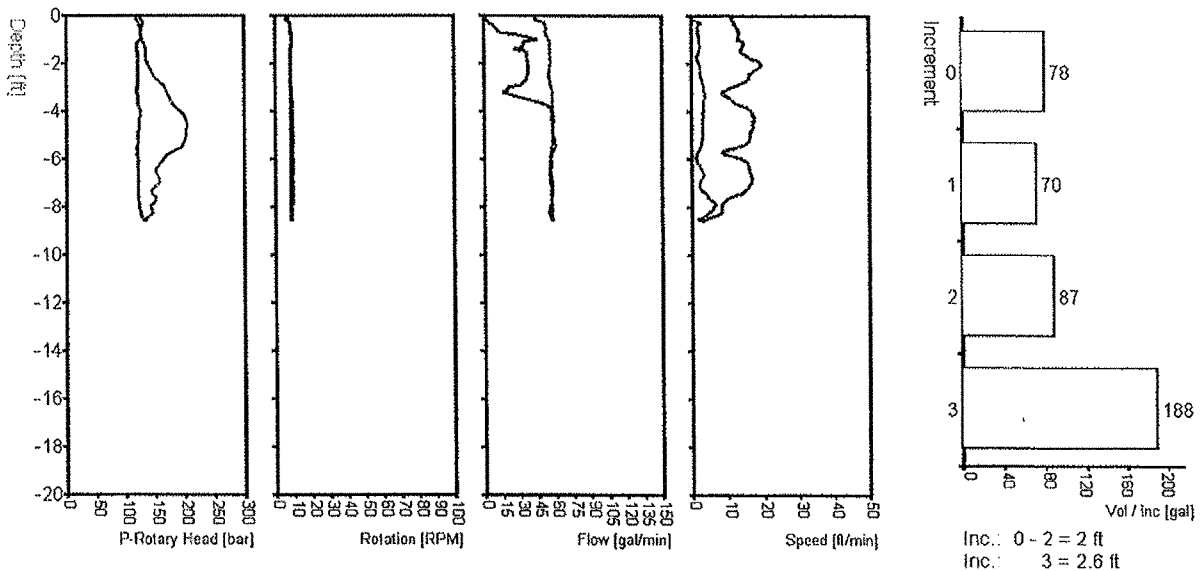
## Data for Pile No: S21

Date: 6/10/2009  
Starttime: 9:45:21 AM  
Endtime: 9:53:09 AM  
Totaltime: 00:07:48  
Pausetime: 00:00:00  
Pilelength: 8.6 ft  
Work pad elevation: 353.2 ft  
Total Volume: 426 gal  
Strokes: 23 ft  
Inclination (X/Y): -0.3° / 0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



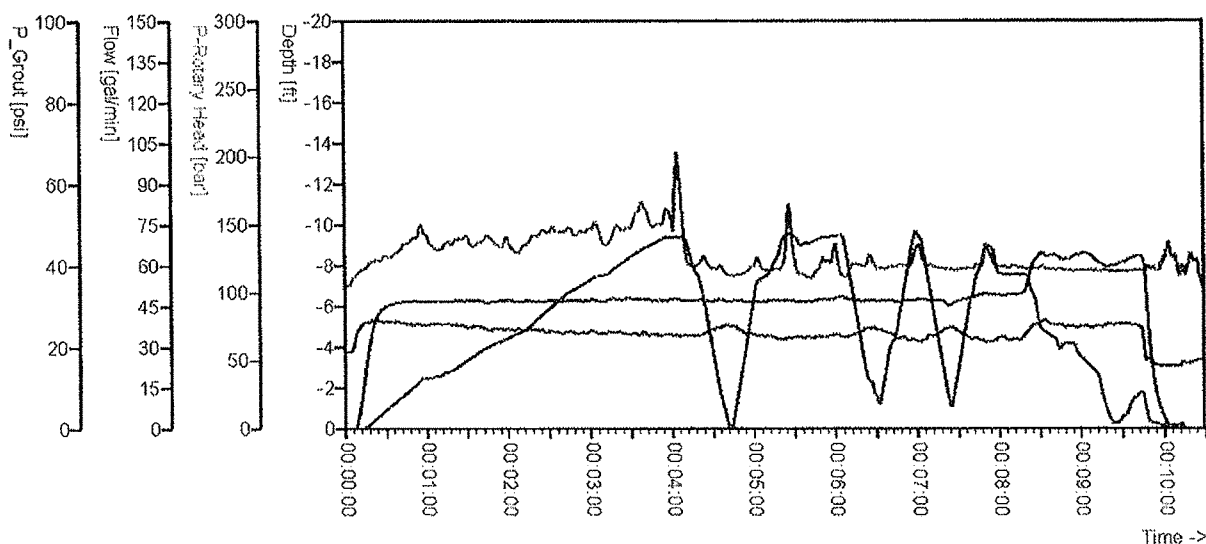
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

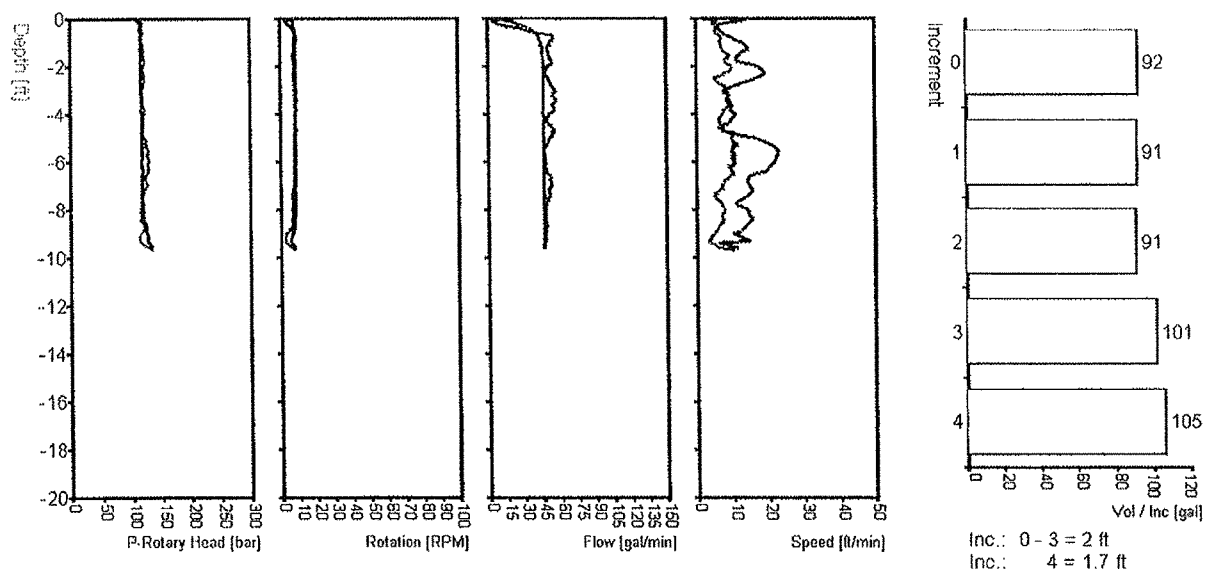
## Data for Pile No: S23

Date: 6/10/2009  
Starttime: 1:45:58 PM  
Endtime: 1:56:25 PM  
Totaltime: 00:10:27  
Pausetime: 00:00:00  
Pilelength: 9.7 ft  
Work pad elevation: 353.2 ft  
Total Volume: 474 gal  
Strokes: 23 *df*  
Inclination (X/Y): 0.1° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



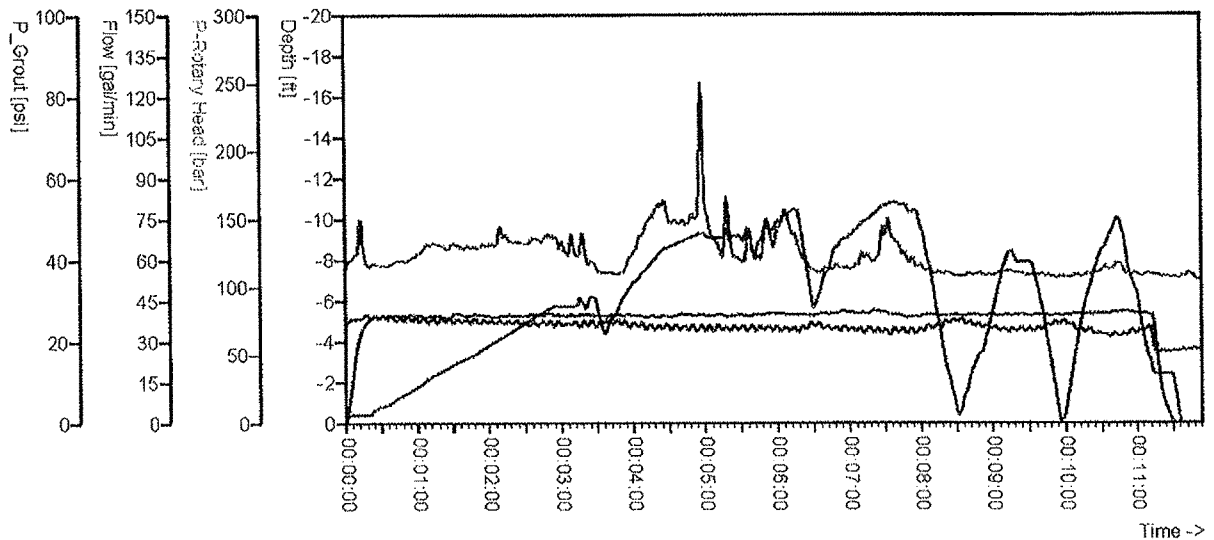
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

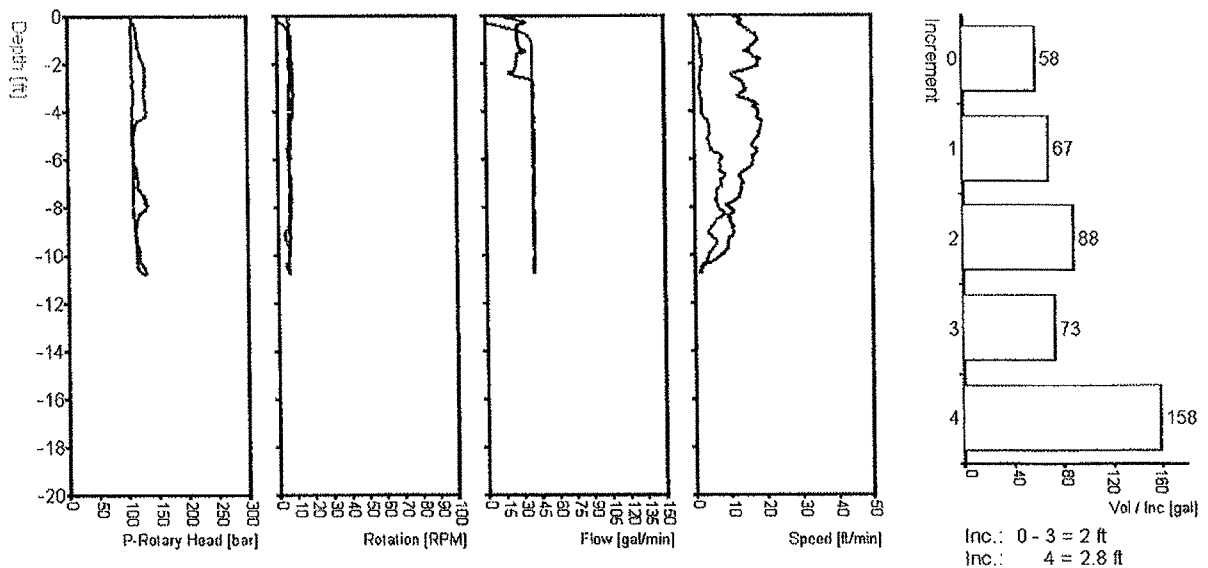
## Data for Pile No: S24

Date: 6/10/2009  
Starttime: 11:47:34 AM  
Endtime: 11:59:26 AM  
Totaltime: 00:11:52  
Pausetime: 00:00:00  
Pilelength: 10.8 ft  
Work pad elevation: 353.2 ft  
Total Volume: 444 gal  
Strokes: 3  
Inclination (X/Y): -0.9° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



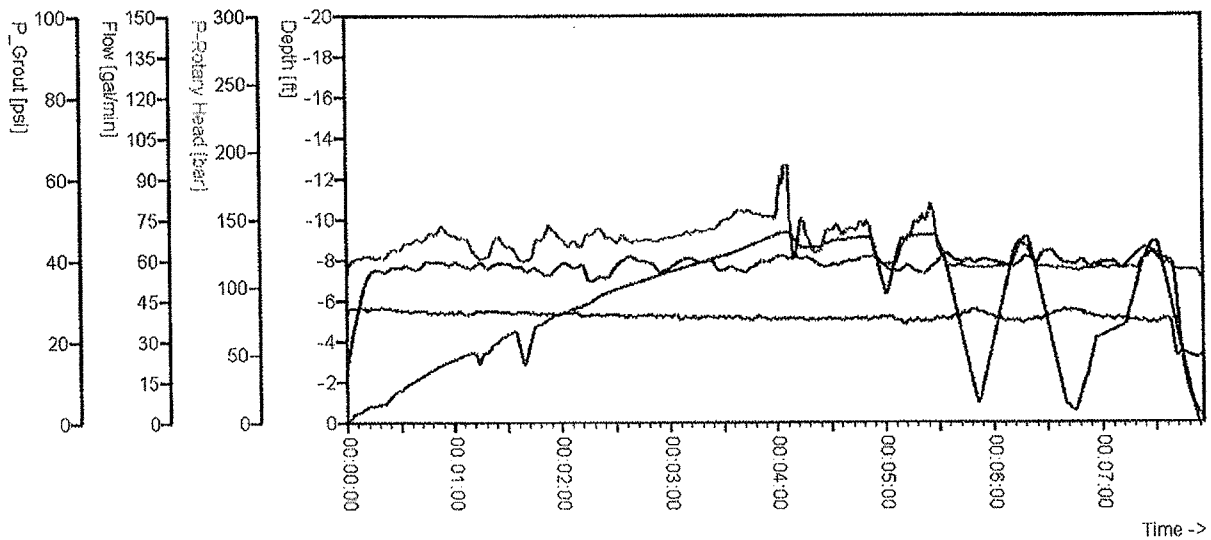
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

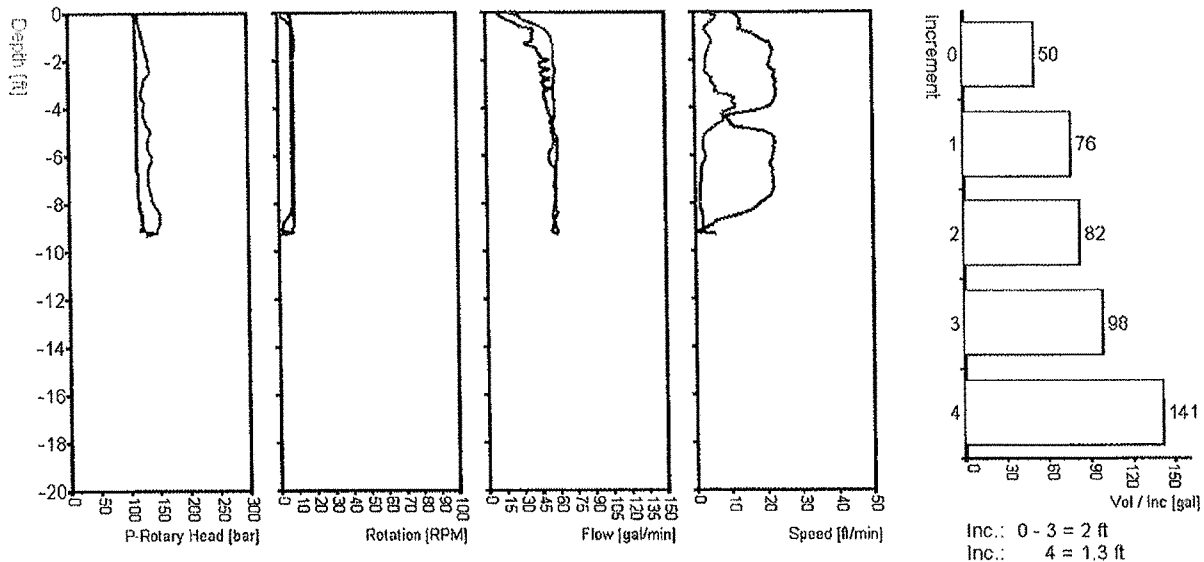
## Data for Pile No: S25

Date: 6/10/2009  
Starttime: 10:27:19 AM  
Endtime: 10:35:14 AM  
Totaltime: 00:07:55  
Pausetime: 00:00:00  
Pilelength: 9.3 ft  
Work pad elevation: 353.2 ft  
Total Volume: 449 gal  
Strokes: 23  
Inclination (X/Y): -0.1° / -0.3°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



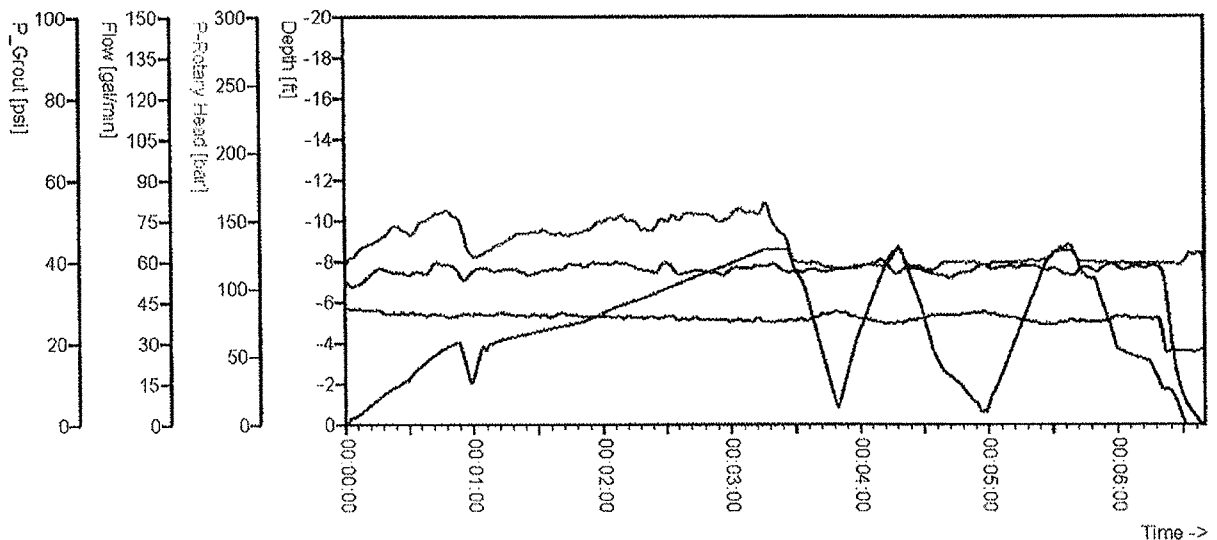
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

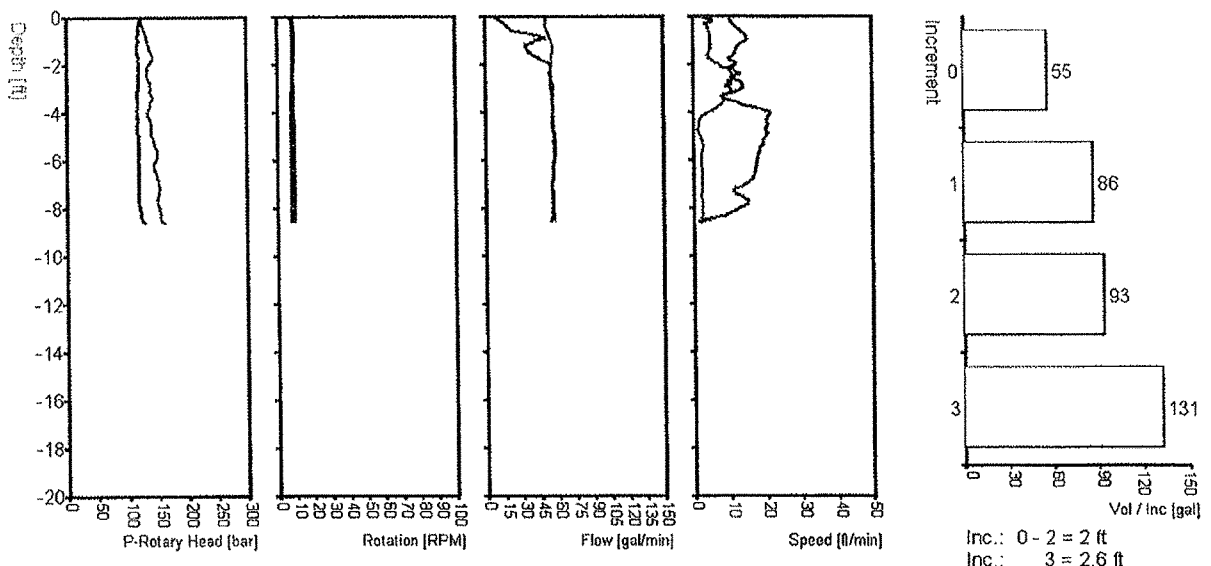
## Data for Pile No: S26

Date: 6/10/2009  
Starttime: 9:56:46 AM  
Endtime: 10:03:24 AM  
Totaltime: 00:06:38  
Pausetime: 00:00:00  
Pilelength: 8.6 ft  
Work pad elevation: 353.2 ft  
Total Volume: 367 gal  
Strokes: **231**  
Inclination (X/Y): 0° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



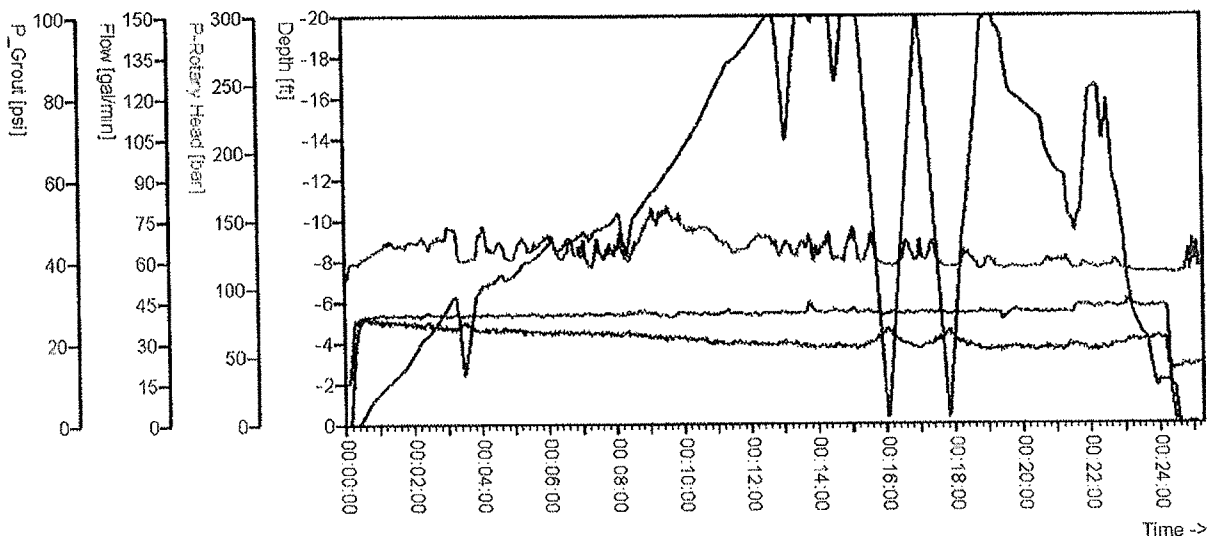
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

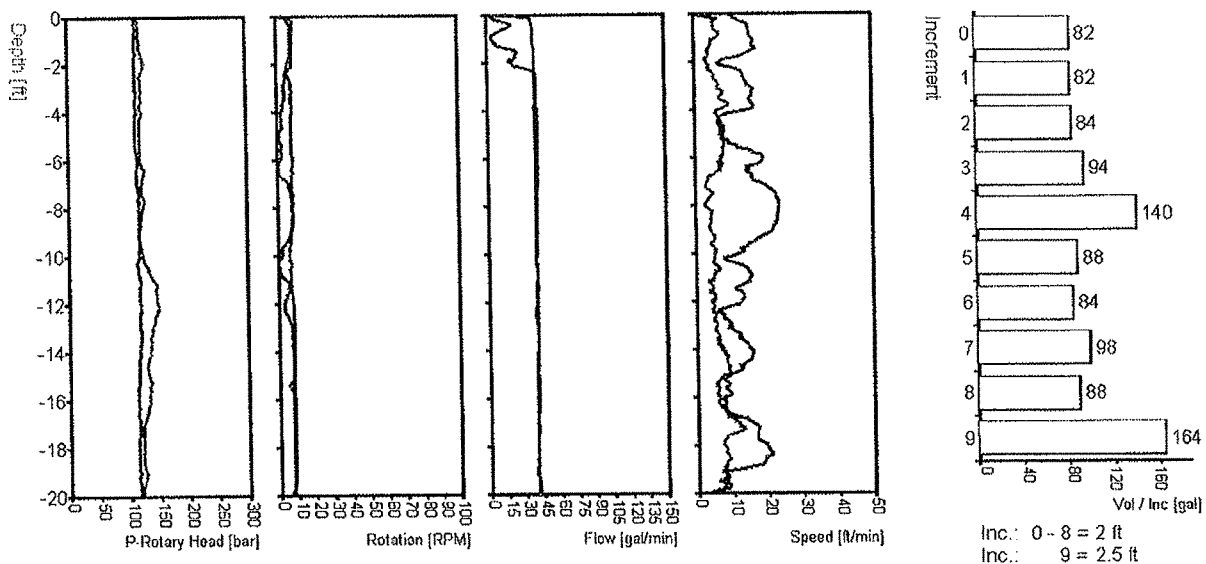
## Data for Pile No: S29

Date: 6/10/2009  
Starttime: 12:05:07 PM  
Endtime: 12:30:22 PM  
Totaltime: 00:25:15  
Pausetime: 00:00:00  
Pilelength: 20.5 ft  
Work pad elevation: 353.2 ft  
Total Volume: 982 gal  
Strokes: 3  
Inclination (X/Y): 0.6° / -0.4°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



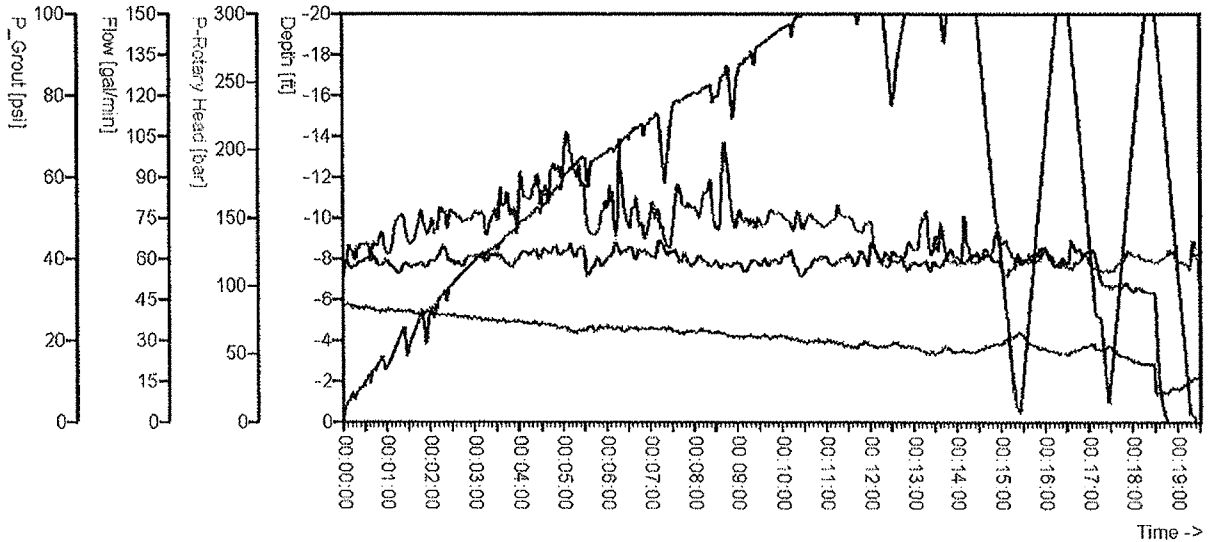
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

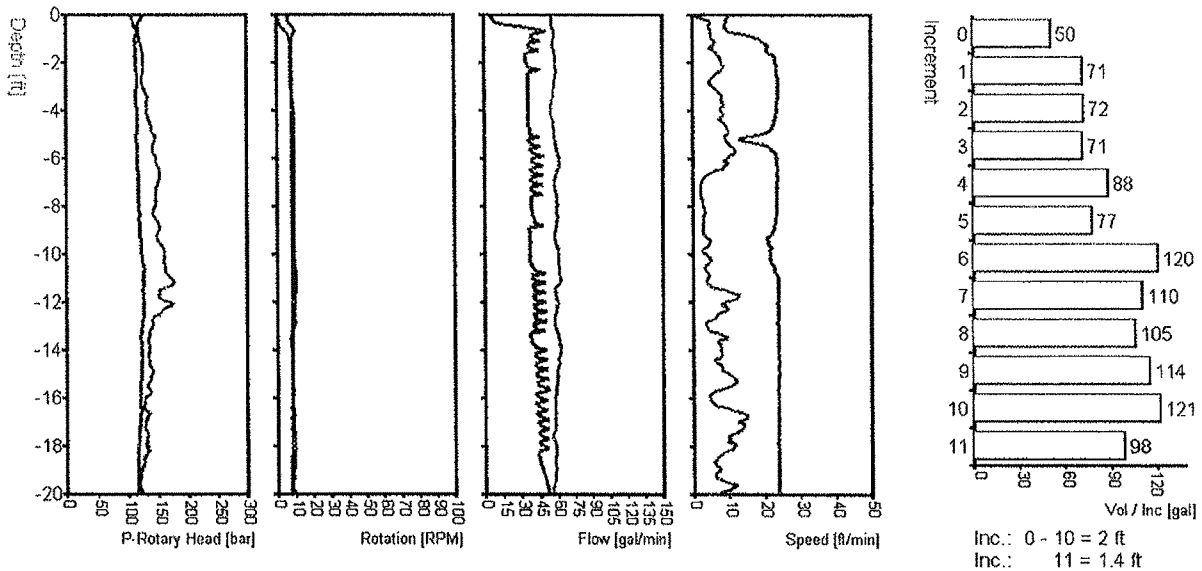
## Data for Pile No: S30

Date: 6/10/2009  
Starttime: 10:45:19 AM  
Endtime: 11:04:48 AM  
Totaltime: 00:19:29  
Pausetime: 00:00:00  
Pilelength: 23.4 ft  
Work pad elevation: 353.2 ft  
Total Volume: 1098 gal  
Strokes: 3  
Inclination (X/Y): -0.3° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



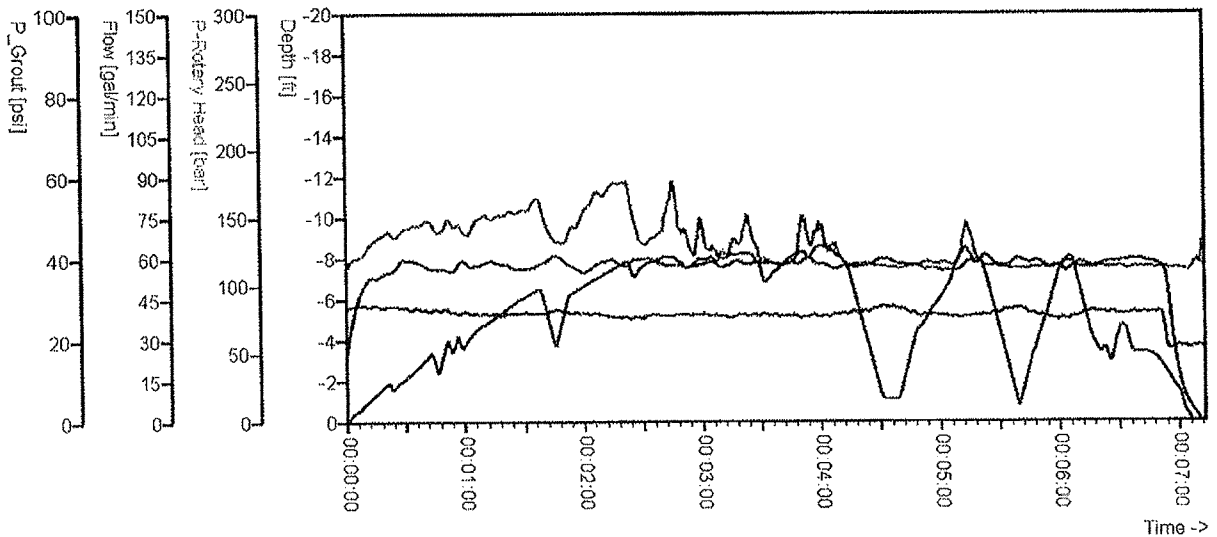
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

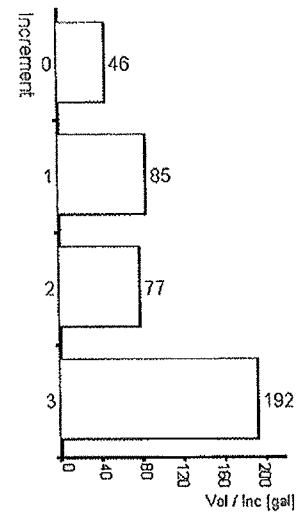
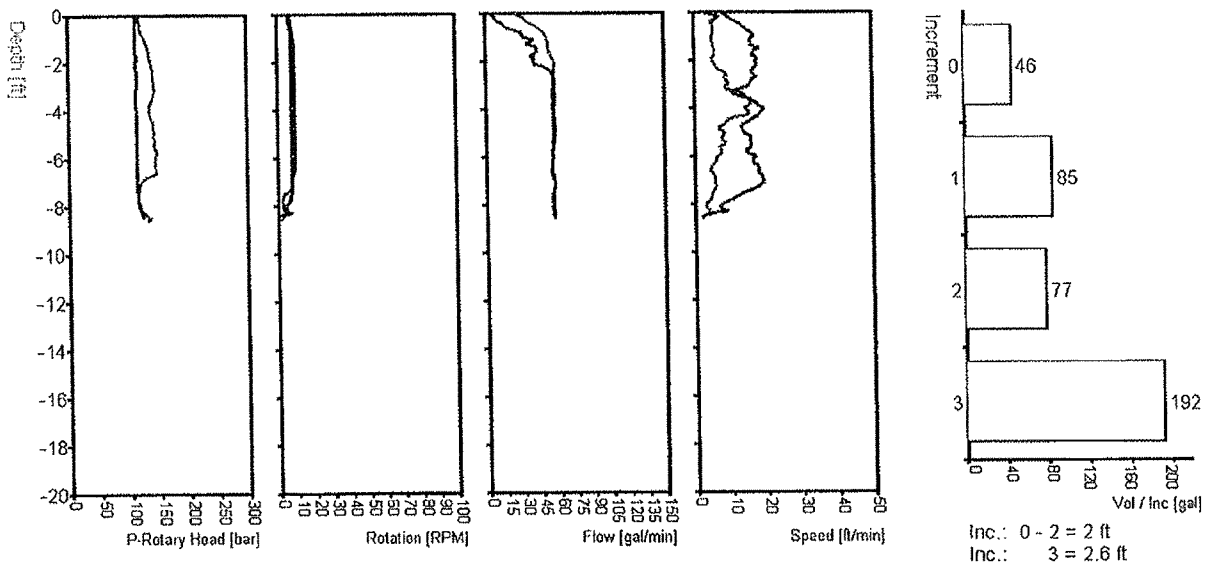
## Data for Pile No: S31

Date: 6/10/2009  
Starttime: 10:07:57 AM  
Endtime: 10:15:08 AM  
Totaltime: 00:07:11  
Pausetime: 00:00:00  
Pilelength: 8.6 ft  
Work pad elevation: 353.2 ft  
Total Volume: 399 gal  
Strokes: 13  
Inclination (X/Y): 0.3° / -0.1°

## Timediagram



## Depthdiagram



Inc.: 0 - 2 = 2 ft  
Inc.: 3 = 2.6 ft

# Geo Solutions Soil Mixing



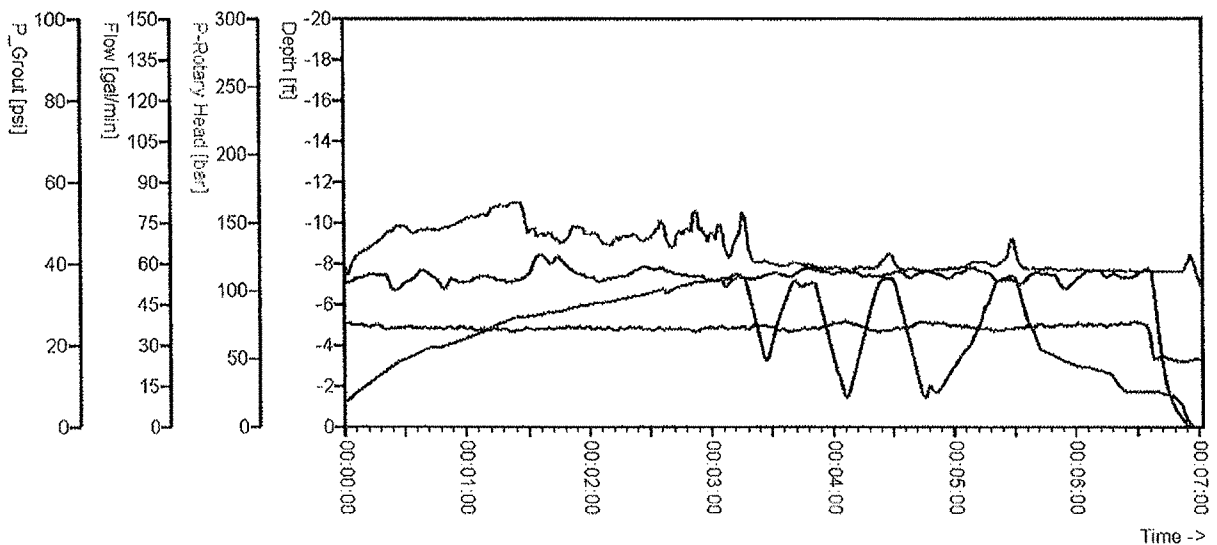
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

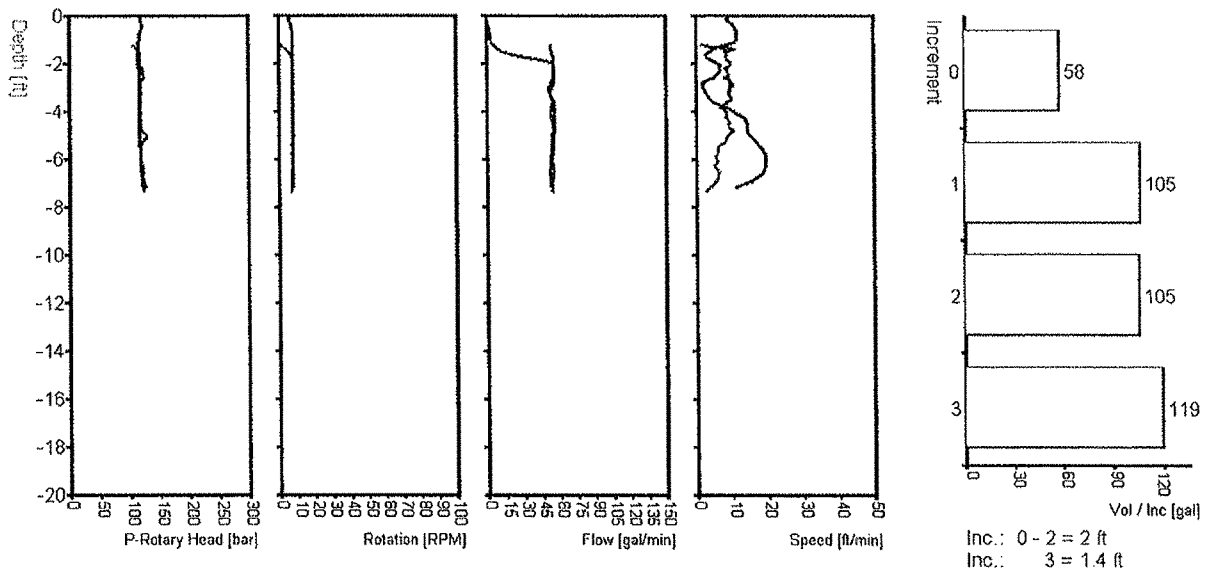
## Data for Pile No: S32

Date: 6/10/2009  
Starttime: 9:35:19 AM  
Endtime: 9:42:19 AM  
Totaltime: 00:07:00  
Pausetime: 00:00:00  
Pilelength: 7.4 ft  
Work pad elevation: 353.2 ft  
Total Volume: 374 gal  
Strokes: 13880  
Inclination (X/Y): 0° / 0.1°

## Timediagram



## Depthdiagram



GEO-SOLUTIONS INC.

Little Falls, NY

1.25 W/C Ratio  
Water= 333 Kilos  
Cement=267 Kilos  
Bentonite=13 Kilos

Batch Plant Form

Date: 6/11/2009

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	10:30	90.5				Type #1	Load #1	Load #2
5	10:40	90.5				Time		
10	11:00	90.5				Tons		
15	12:05	90.5						
20	12:22	90.5				Grout	Samples	
25	12:38	90.5				Flow	12:36	2-2x3
30	12:50	90.5					S-9	3-3x6
35	1:10	90.5						
40	1:20	90.5						
45	1:35	90.5						
50	2:00	90.5						
55						52 Total		
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110								

# Geo Solutions Soil Mixing



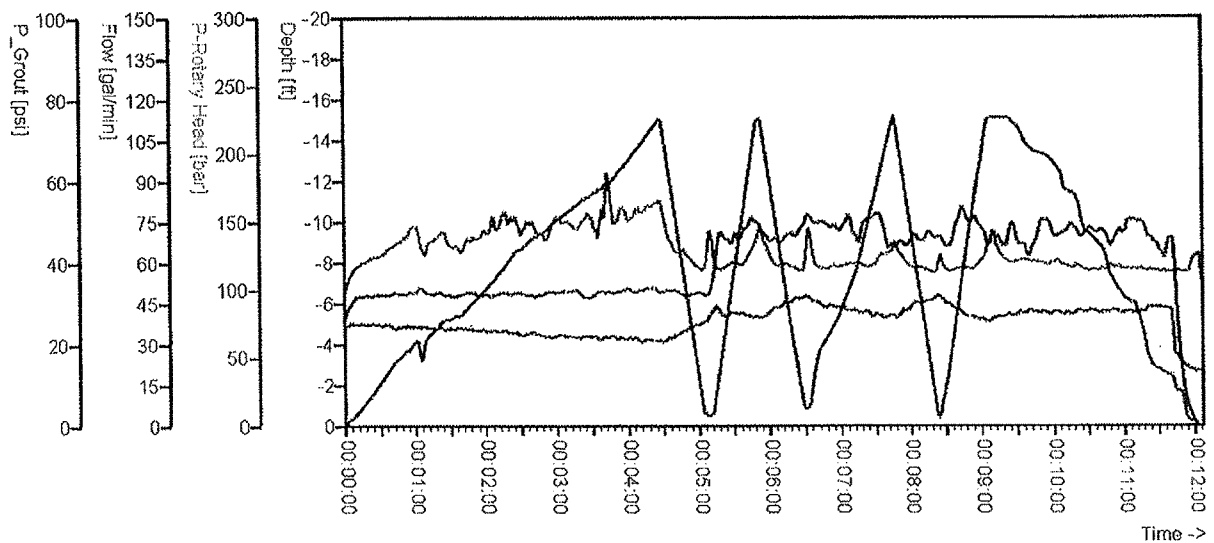
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

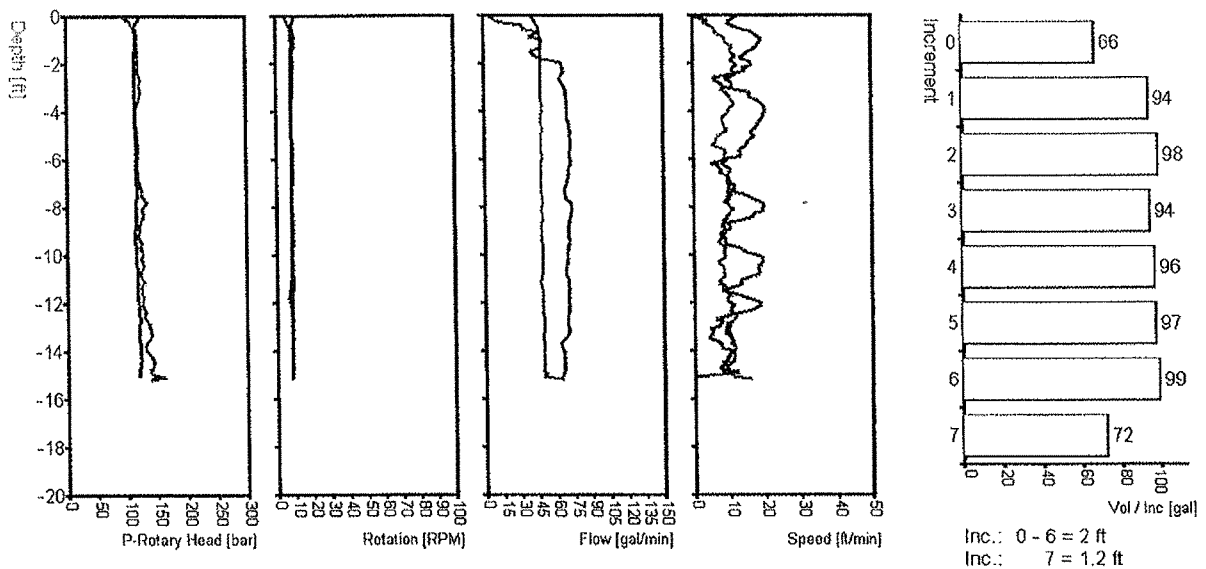
## Data for Pile No: S1

Date: 6/11/2009  
Starttime: 1:42:33 PM  
Endtime: 1:54:38 PM  
Totaltime: 00:12:05  
Pausetime: 00:00:00  
Pilelength: 15.2 ft  
Work pad elevation: 354.2 ft  
Total Volume: 721 gal  
Strokes: 4  
Inclination (X/Y): -0.3° / -0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



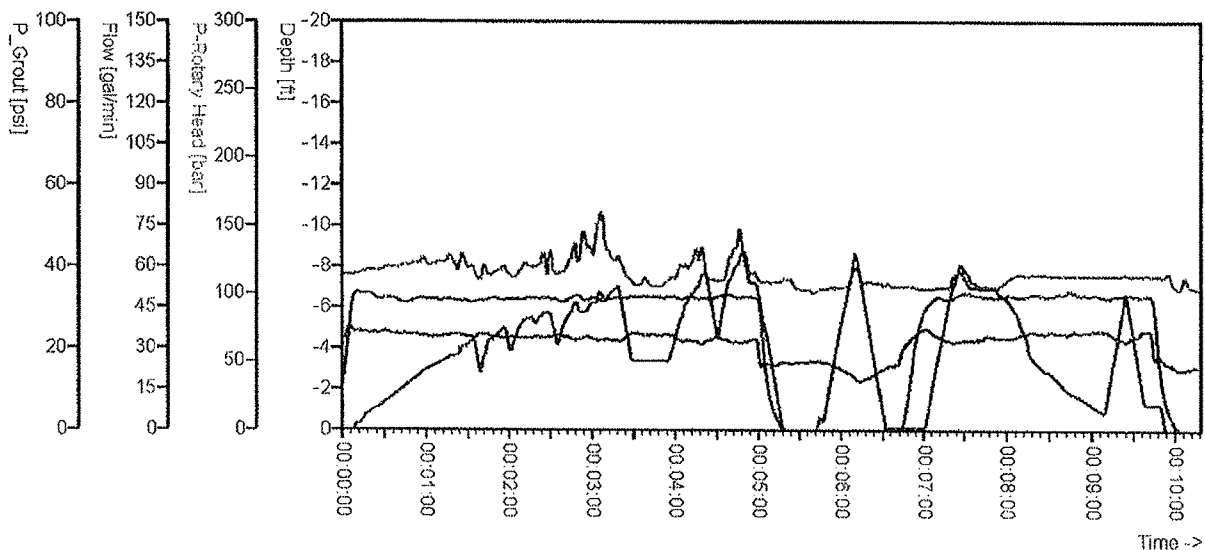
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

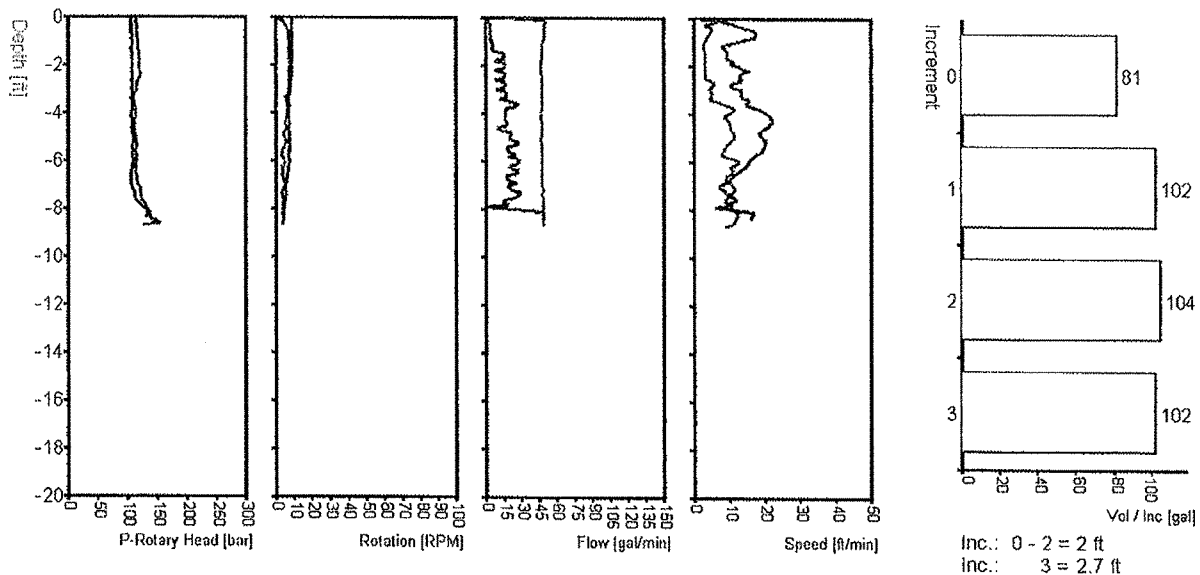
## Data for Pile No: S2

Date: 6/11/2009  
Starttime: 1:29:02 PM  
Endtime: 1:39:19 PM  
Totaltime: 00:10:17  
Pausetime: 00:00:00  
Pilelength: 8.7 ft  
Work pad elevation: 353.6 ft  
Total Volume: 390 gal  
Strokes: 3  
Inclination (X/Y): -1.2° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



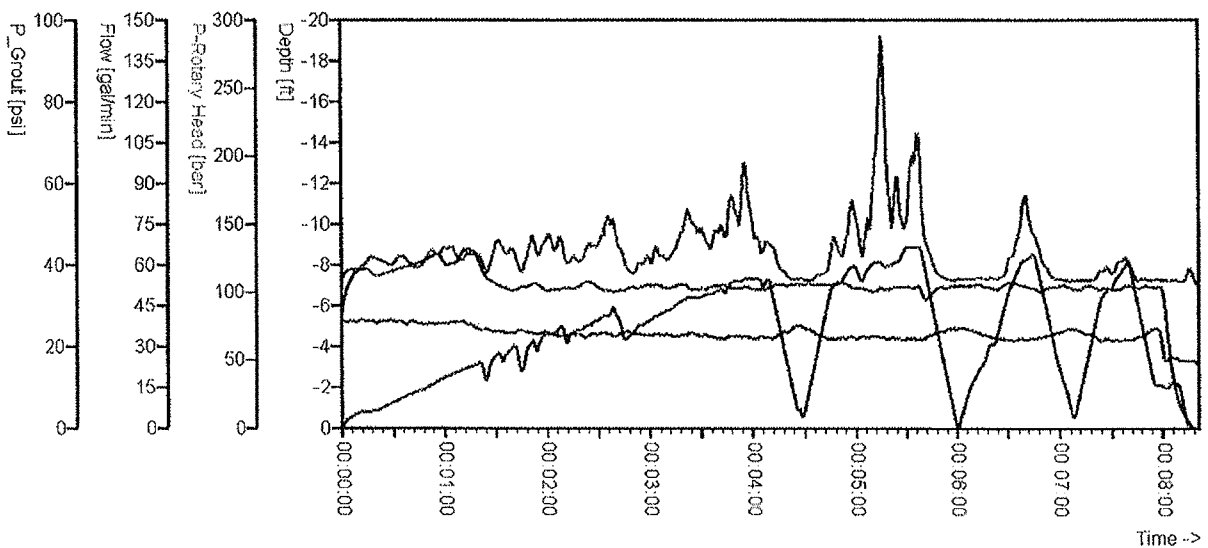
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

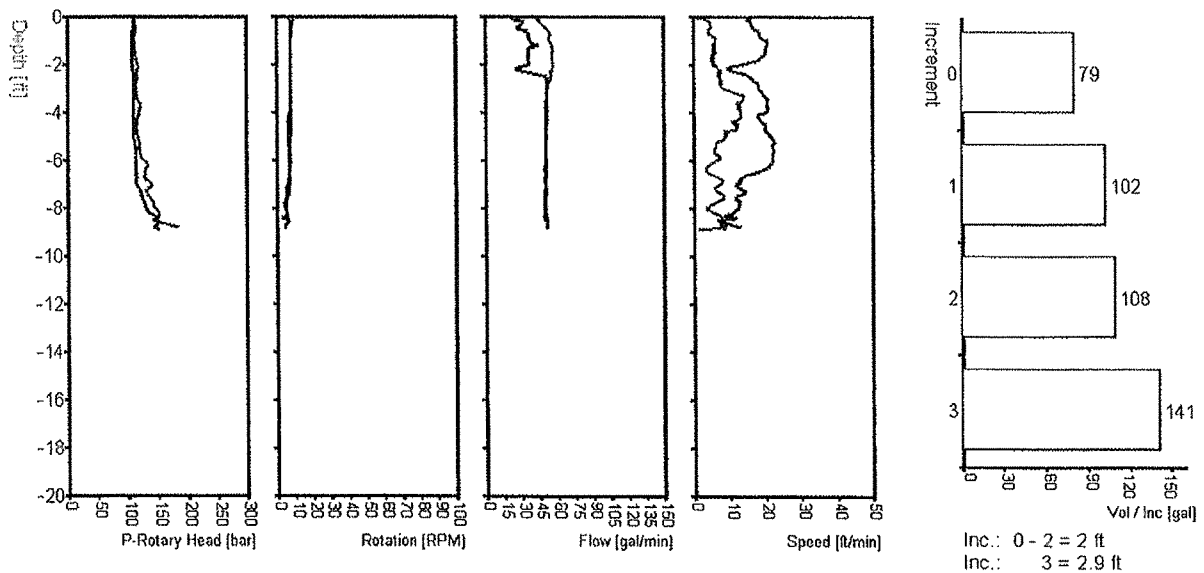
## Data for Pile No: S3

Date: 6/11/2009  
Starttime: 12:38:18 PM  
Endtime: 12:46:37 PM  
Totaltime: 00:08:19  
Pausetime: 00:00:00  
Pilelength: 8.9 ft  
Work pad elevation: 353.6 ft  
Total Volume: 432 gal  
Strokes: 3  
Inclination (X/Y): -1.1° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



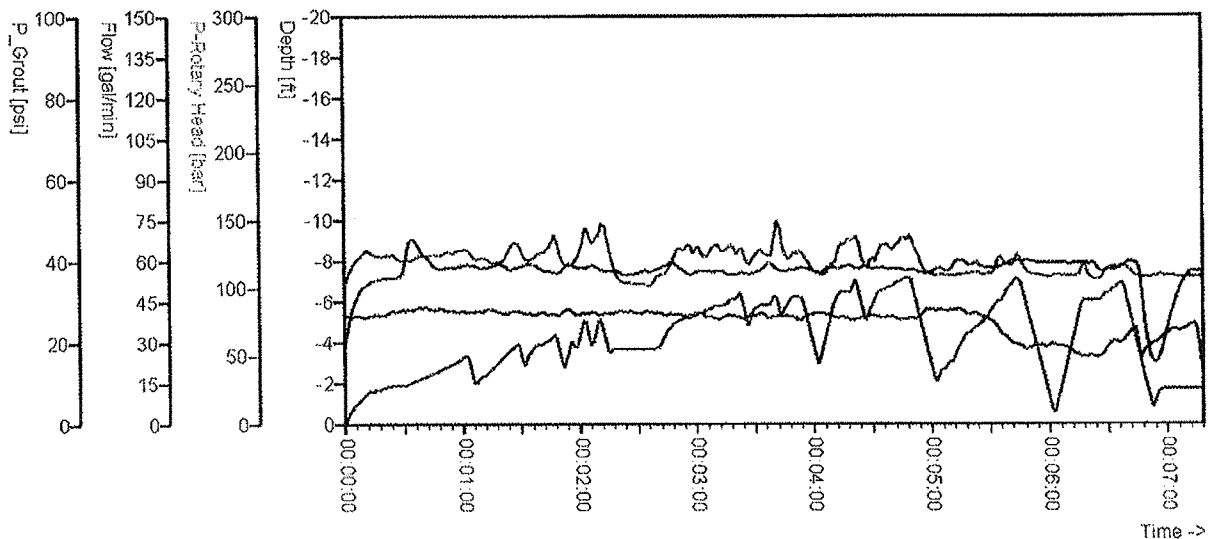
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

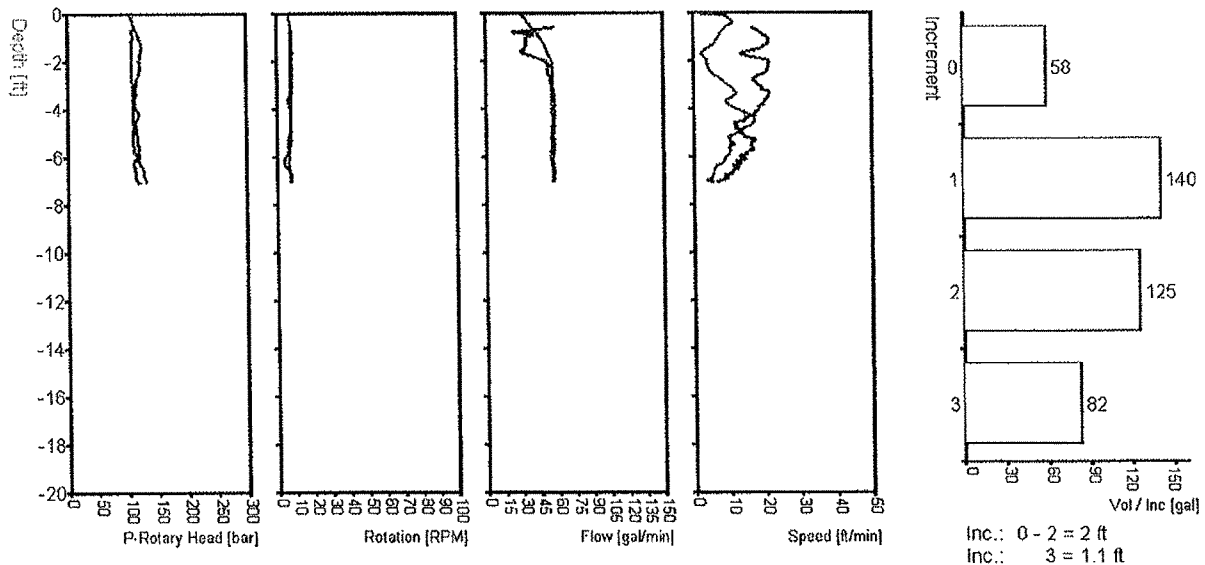
## Data for File No: S4

Date: 6/11/2009  
Starttime: 1:59:24 PM  
Endtime: 2:06:41 PM  
Totaltime: 00:07:17  
Pausetime: 00:00:00  
Pilelength: 7.1 ft  
Work pad elevation: 353.5 ft  
Total Volume: 408 gal  
Strokes: 1  
Inclination (X/Y): 0.9° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



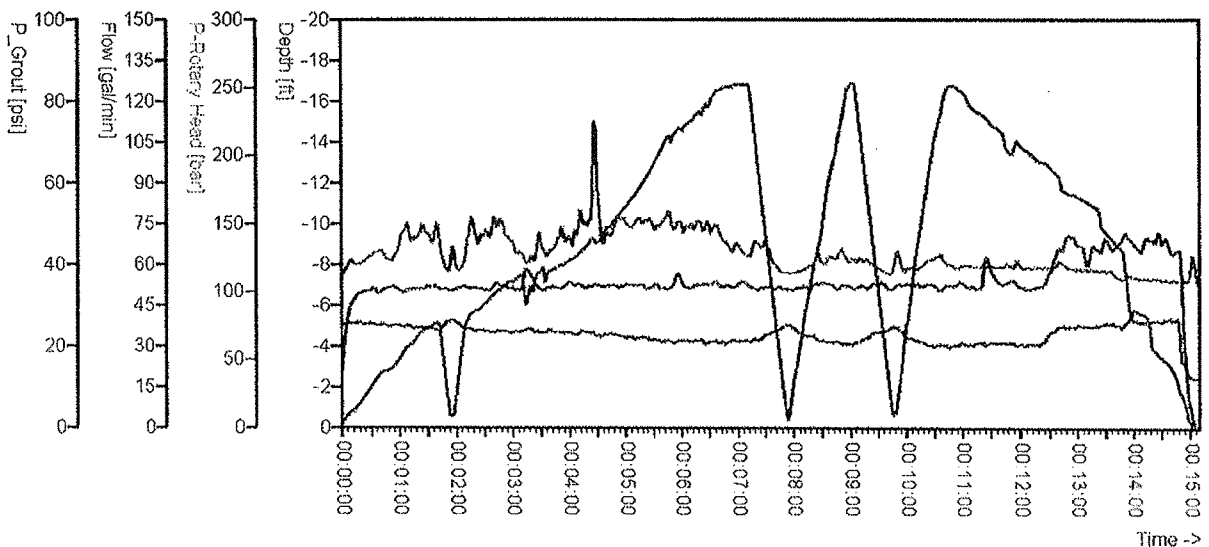
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

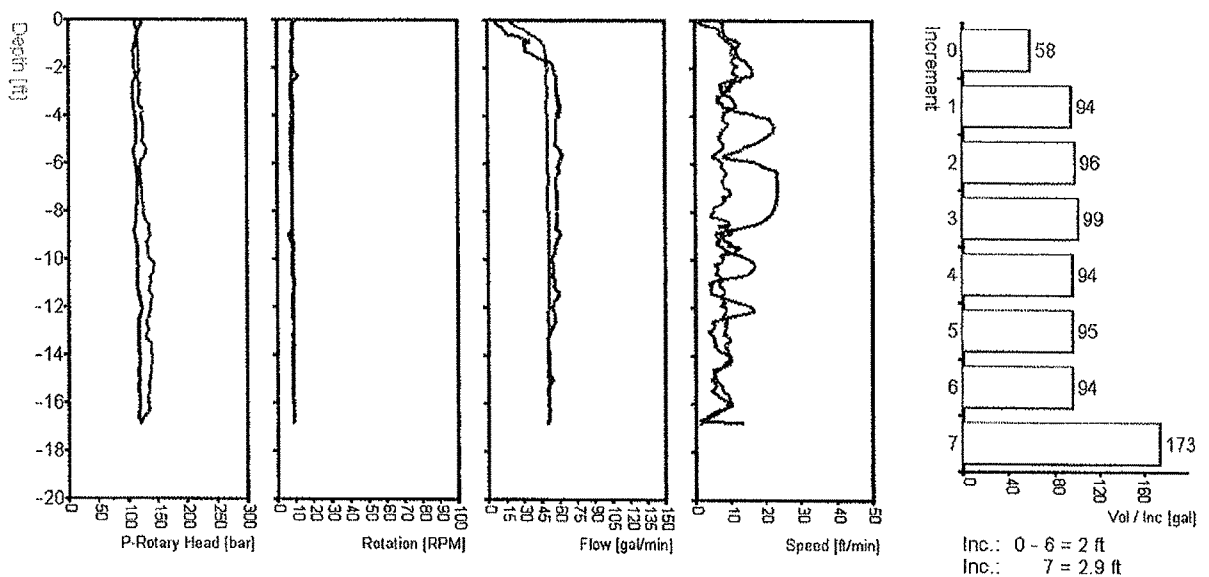
## Data for Pile No: 55

Date: 6/11/2009  
Starttime: 12:49:50 PM  
Endtime: 1:04:58 PM  
Totaltime: 00:15:08  
Pausetime: 00:00:00  
Pilelength: 16.9 ft  
Work pad elevation: 353.6 ft  
Total Volume: 808 gal  
Strokes: 3  
Inclination (X/Y): 0° / -0.4°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



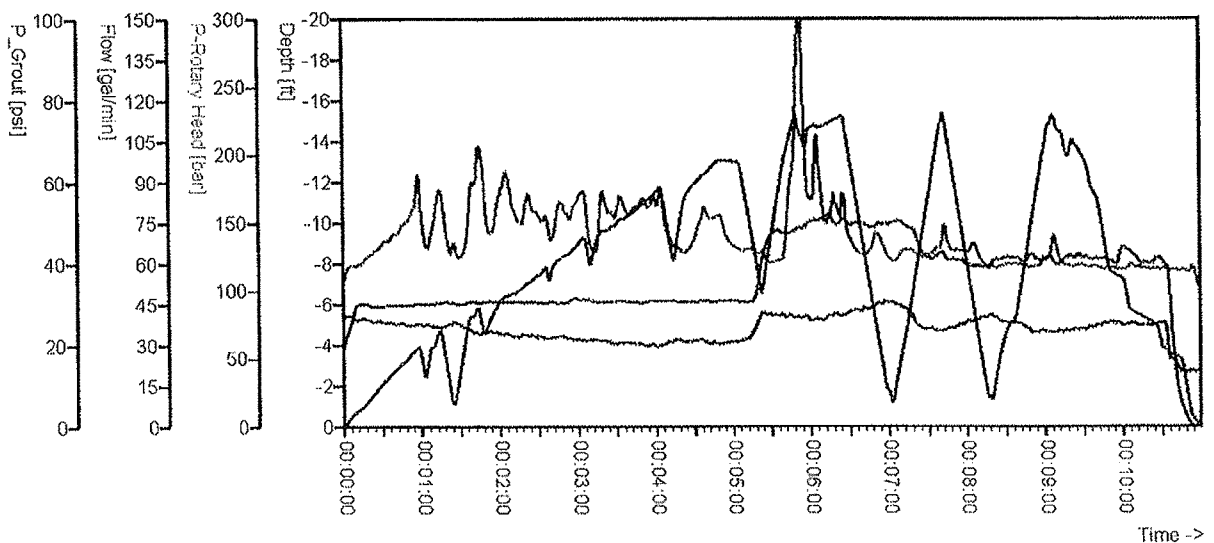
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

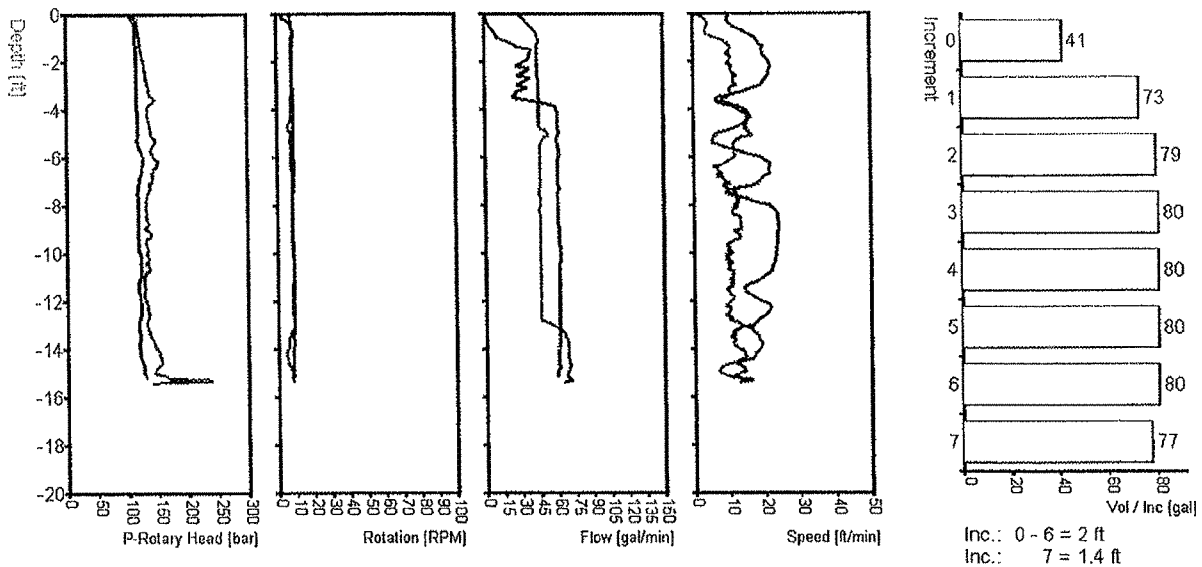
## Data for Pile No: S6

Date: 6/11/2009  
Starttime: 12:10:30 PM  
Endtime: 12:21:28 PM  
Totaltime: 00:10:58  
Pausetime: 00:00:00  
Pilelength: 15.4 ft  
Work pad elevation: 353.5 ft  
Total Volume: 594 gal  
Strokes: 23  
Inclination (X/Y): 0.3° / -0.2°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



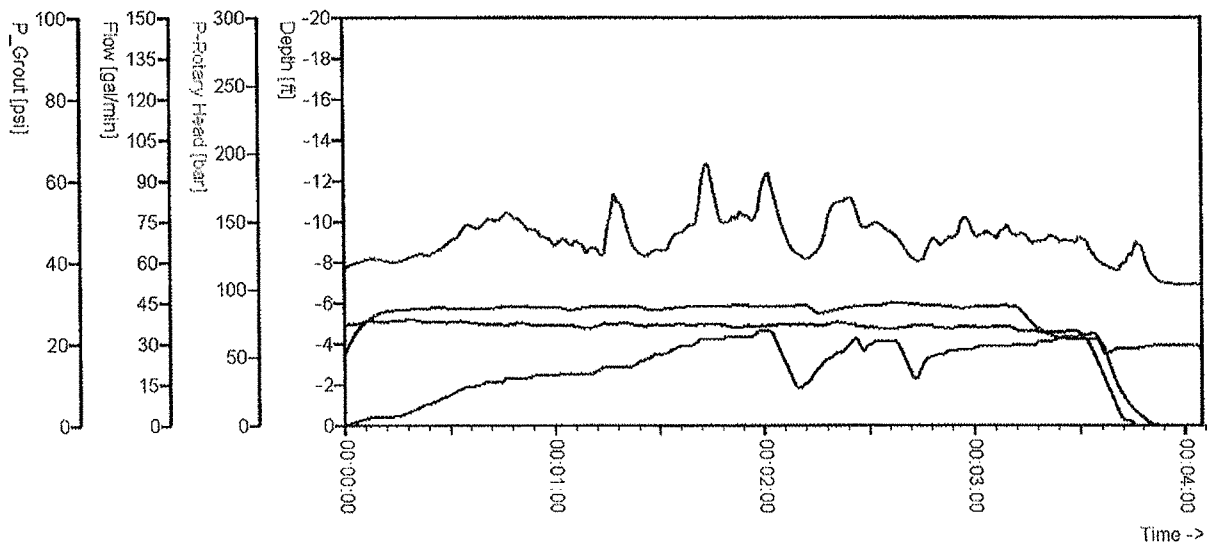
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

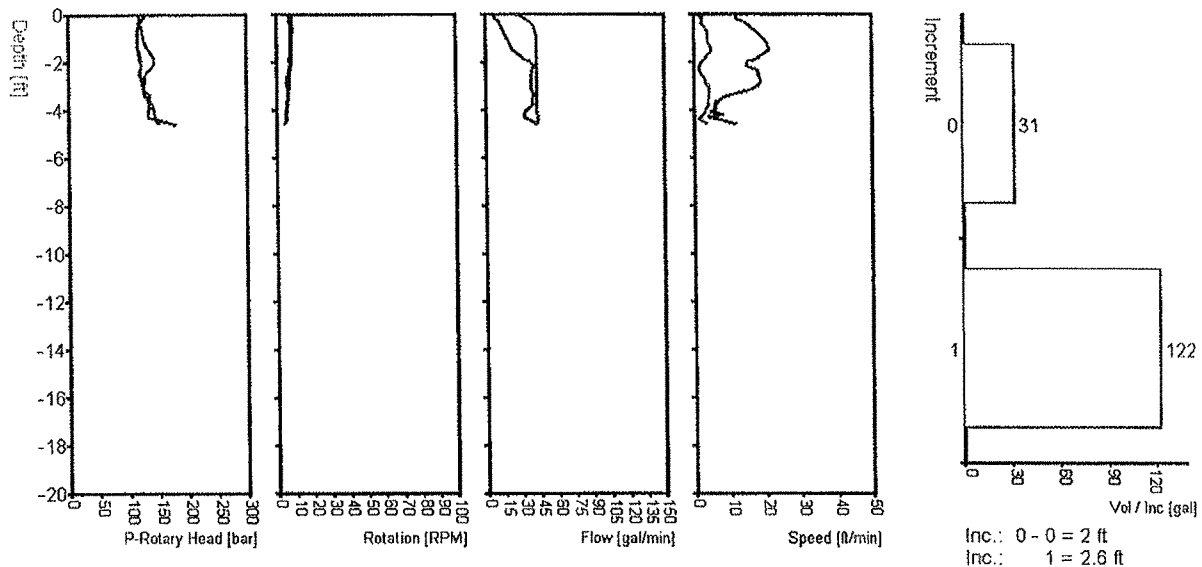
## Data for Pile No: S7

Date: 6/11/2009  
Starttime: 11:04:10 AM  
Endtime: 11:08:13 AM  
Totaltime: 00:04:03  
Pausetime: 00:00:00  
Pilelength: 4.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 154 gal  
Strokes: 1  
Inclination (X/Y): -0.7° / -1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



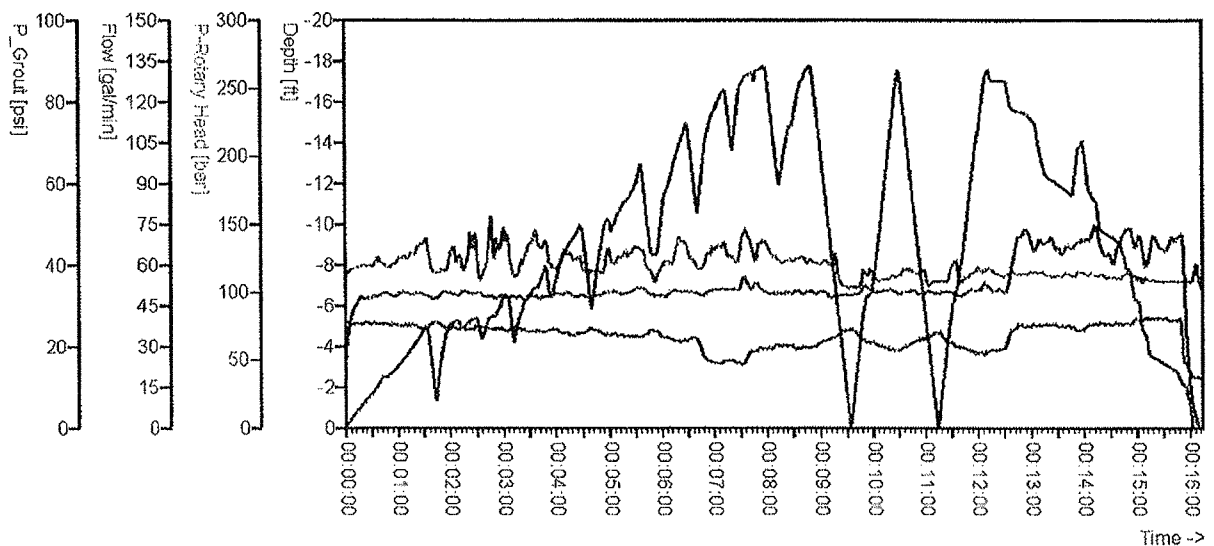
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

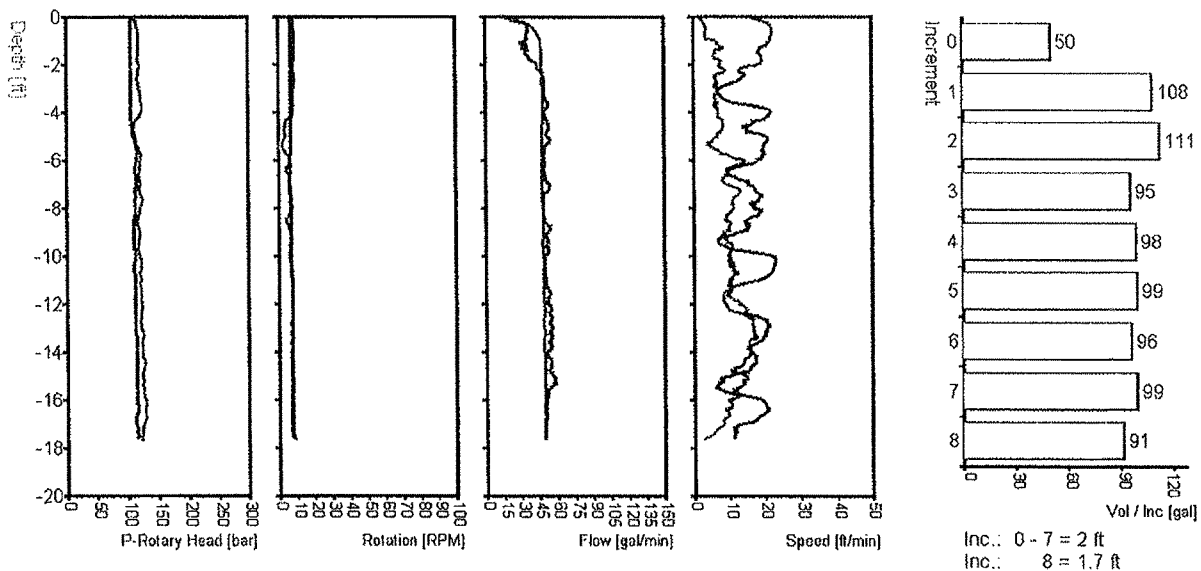
## Data for Pile No: S8

Date: 6/11/2009  
Starttime: 1:08:18 PM  
Endtime: 1:24:31 PM  
Totaltime: 00:16:13  
Pausetime: 00:00:00  
Pilelength: 17.7 ft  
Work pad elevation: 353.6 ft  
Total Volume: 851 gal  
Strokes: 3  
Inclination (X/Y): 0.6° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



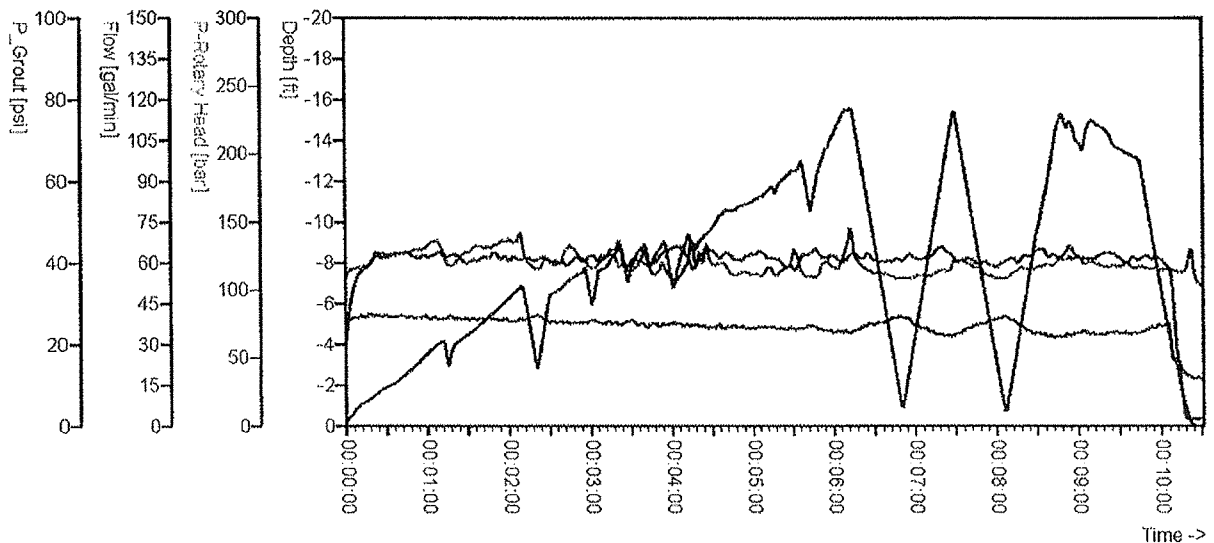
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

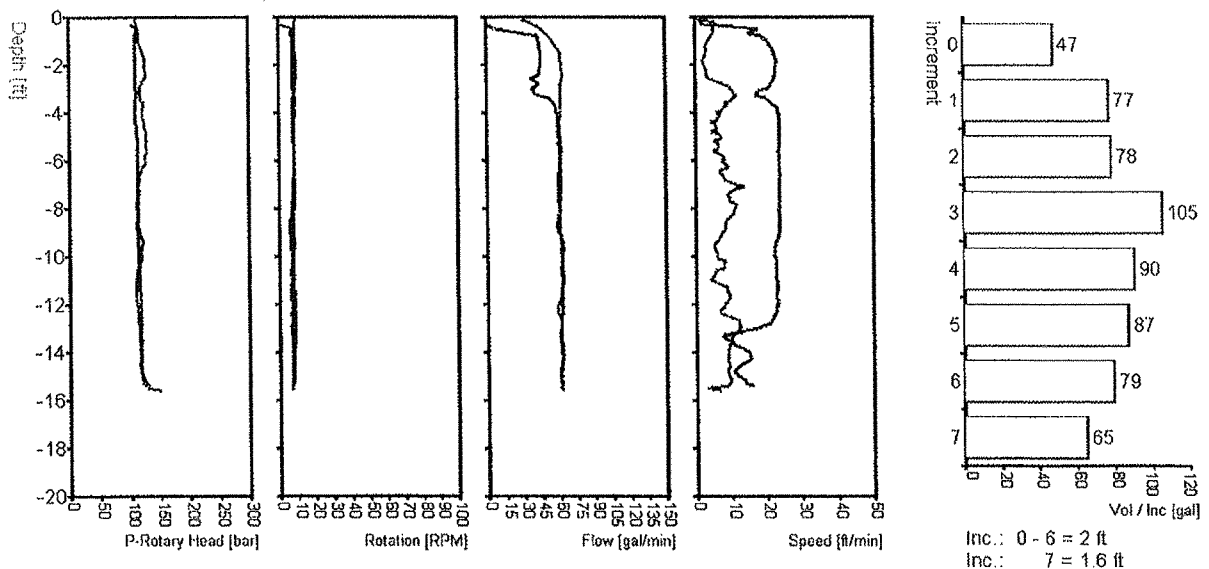
## Data for Pile No: S9

Date: 6/11/2009  
Starttime: 12:24:12 PM  
Endtime: 12:34:42 PM  
Totaltime: 00:10:30  
Pausetime: 00:00:00  
Pilelength: 15.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 628 gal  
Strokes: 3  
Inclination (X/Y): 0.5° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



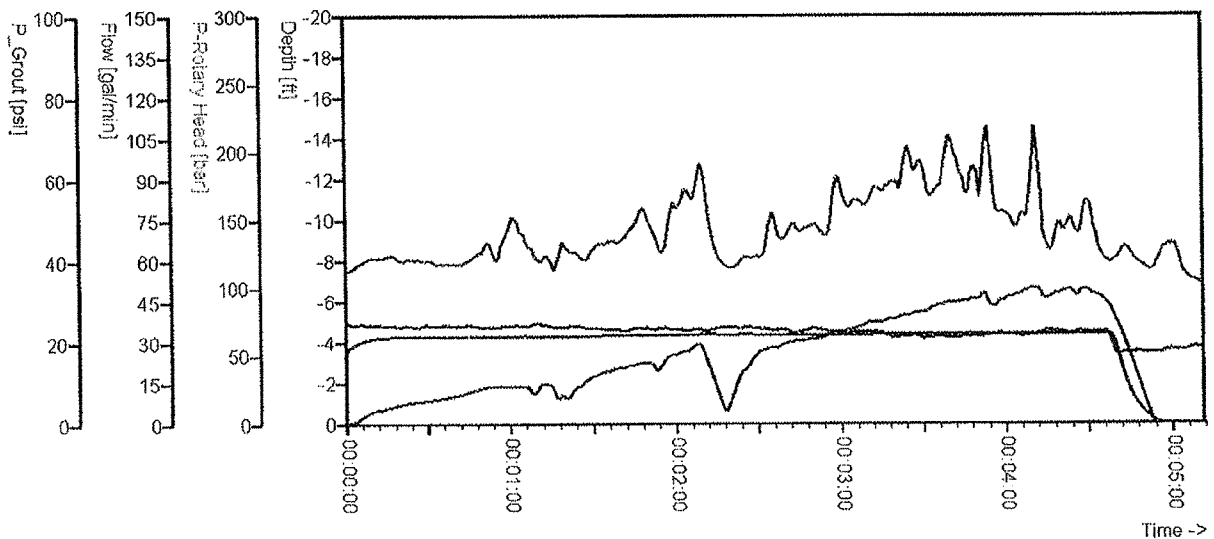
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

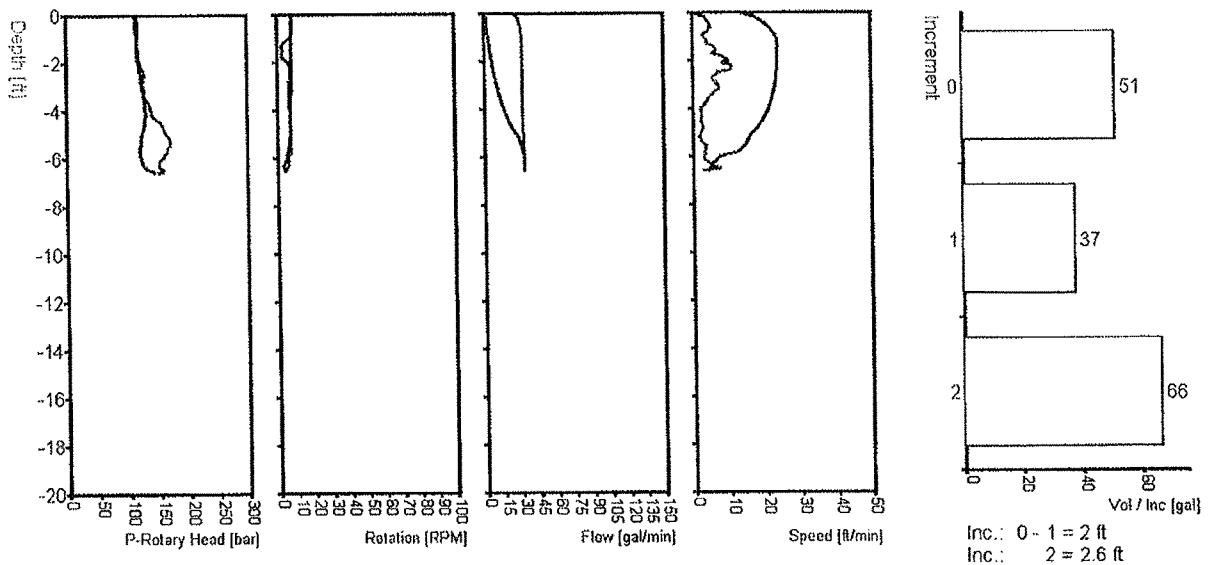
## Data for Pile No: S10

Date: 6/11/2009  
Starttime: 11:12:20 AM  
Endtime: 11:17:29 AM  
Totaltime: 00:05:09  
Pausetime: 00:00:00  
Pilelength: 6.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 154 gal  
Strokes: 1  
Inclination (X/Y): 0.3° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



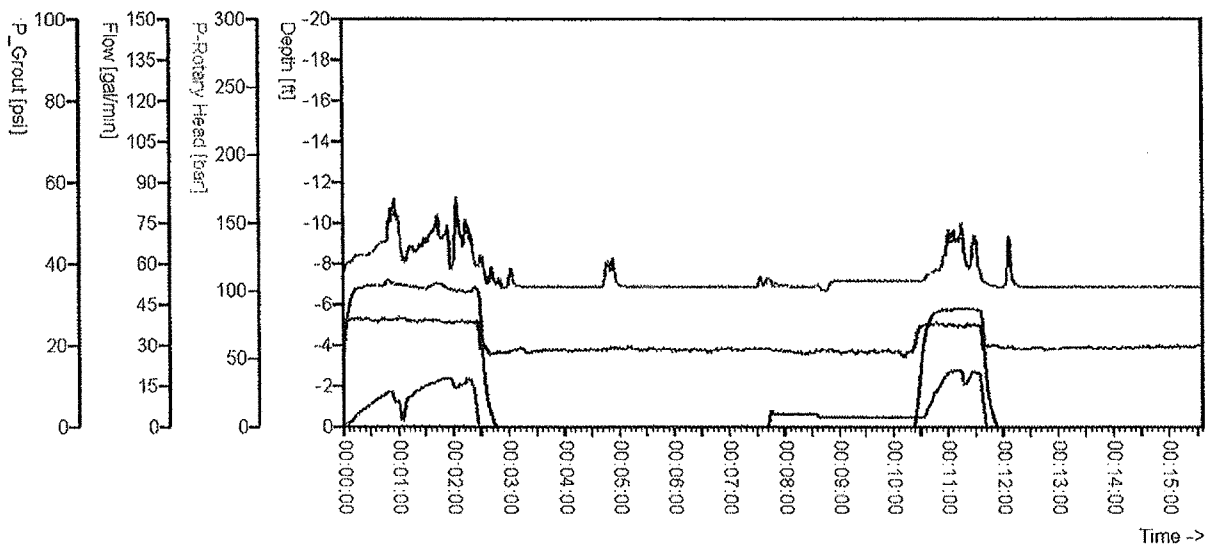
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

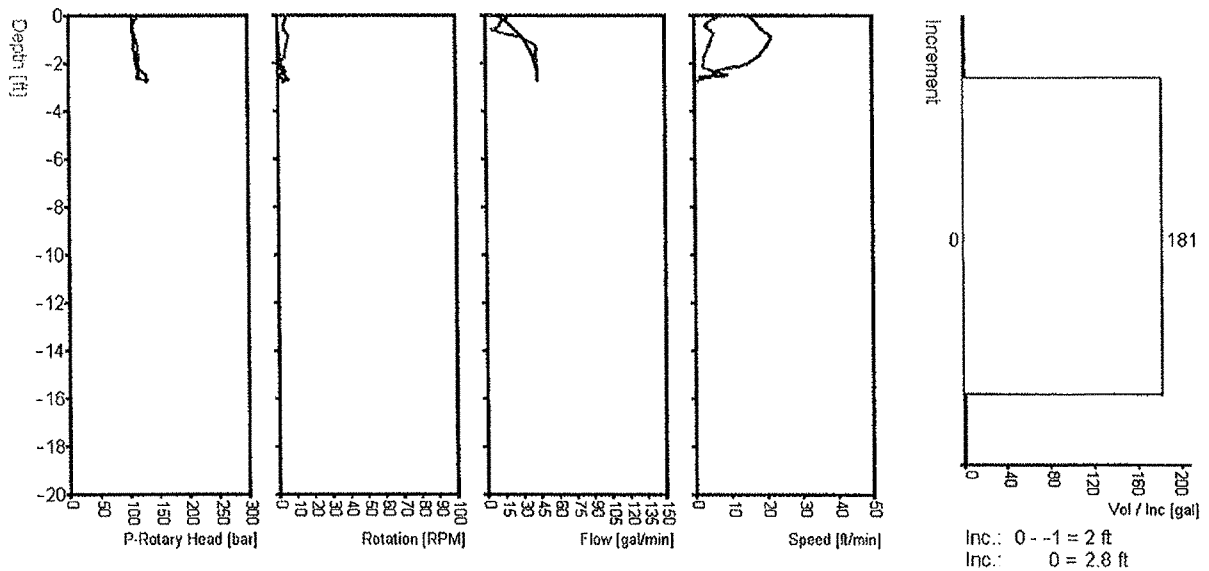
## Data for Pile No: S11

Date: 6/11/2009  
Starttime: 10:45:01 AM  
Endtime: 11:00:35 AM  
Totaltime: 00:15:34  
Pausetime: 00:00:00  
Pilelength: 2.8 ft  
Work pad elevation: 352.9 ft  
Total Volume: 181 gal  
Strokes: 2  
Inclination (X/Y): -0.8° / 0.3°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



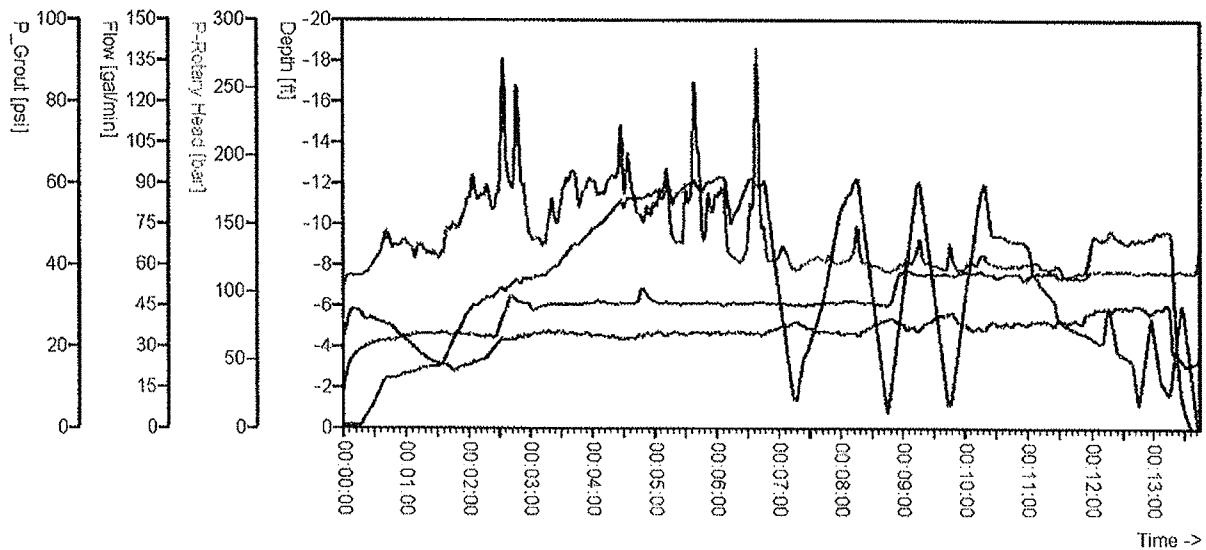
## Job Site Data:

Project name: Feldmeler  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

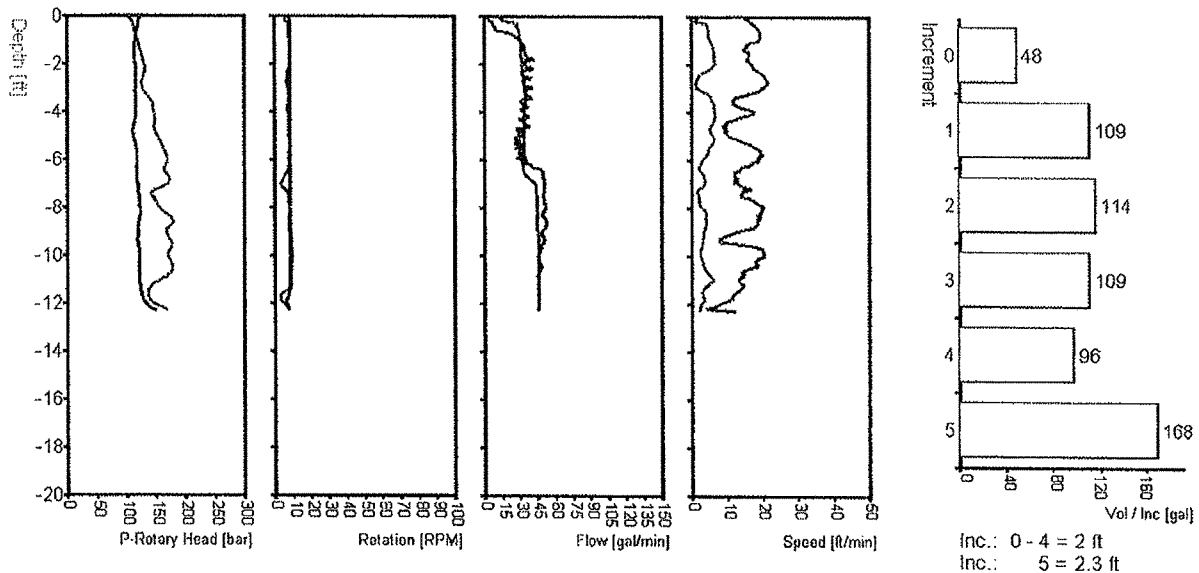
## Data for Pile No: S12

Date: 6/11/2009  
Starttime: 11:49:43 AM  
Endtime: 12:03:27 PM  
Totaltime: 00:13:44  
Pausetime: 00:00:00  
Pilelength: 12.3 ft  
Work pad elevation: 353.5 ft  
Total Volume: 648 gal  
Strokes: 23 ft  
Inclination (X/Y): -0.1° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



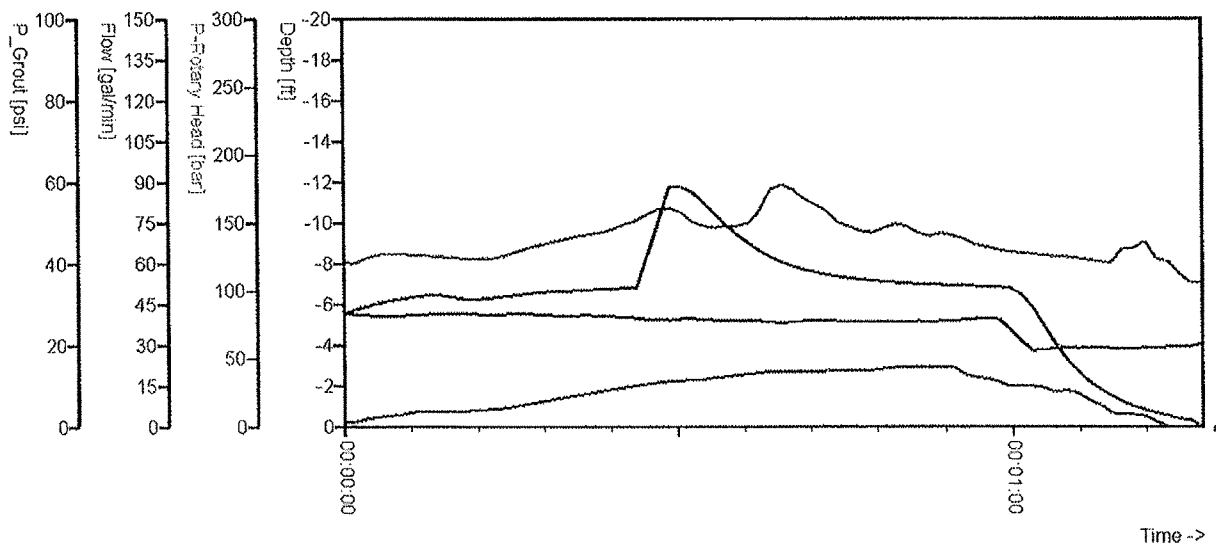
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

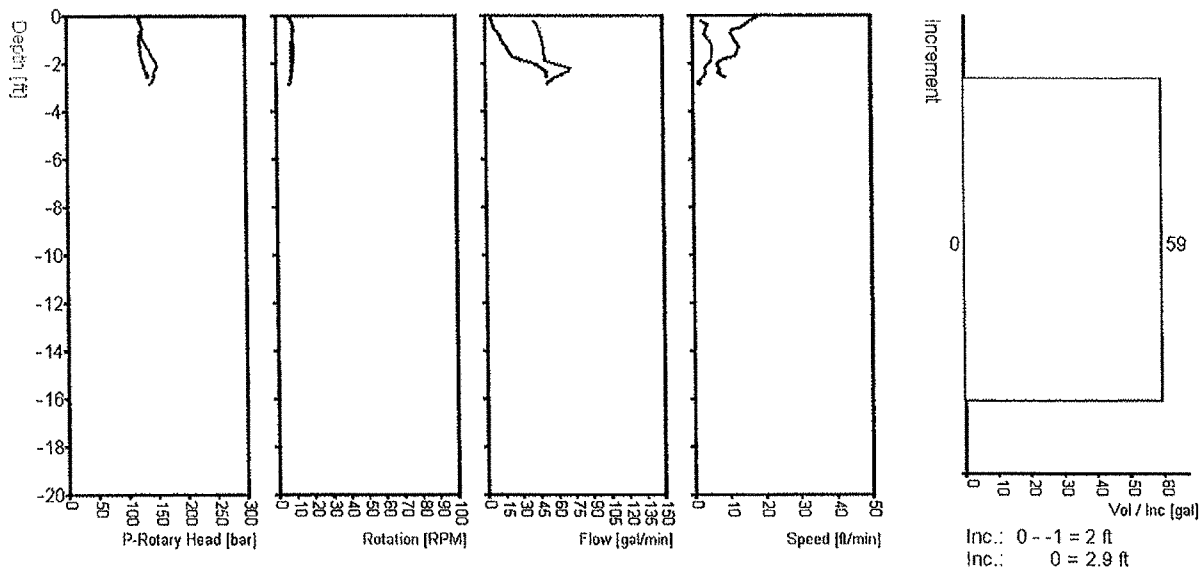
## Data for Pile No: J17

Date: 6/11/2009  
Starttime: 10:40:21 AM  
Endtime: 10:41:37 AM  
Totaltime: 00:01:16  
Pausetime: 00:00:00  
Pilelength: 2.9 ft  
Work pad elevation: 352.9 ft  
Total Volume: 61 gal  
Strokes: 1  
Inclination (X/Y): -0.5° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



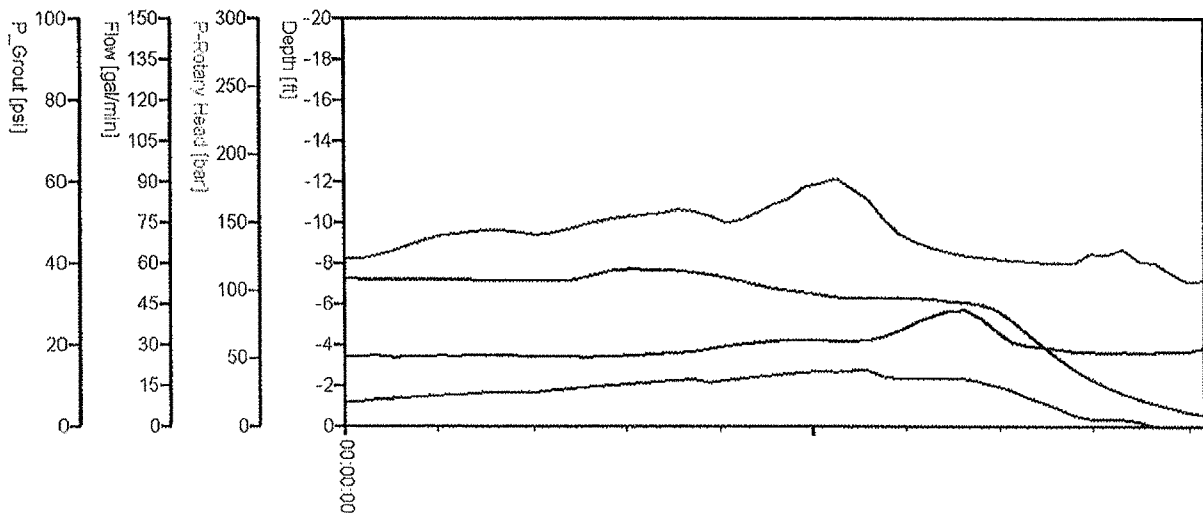
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

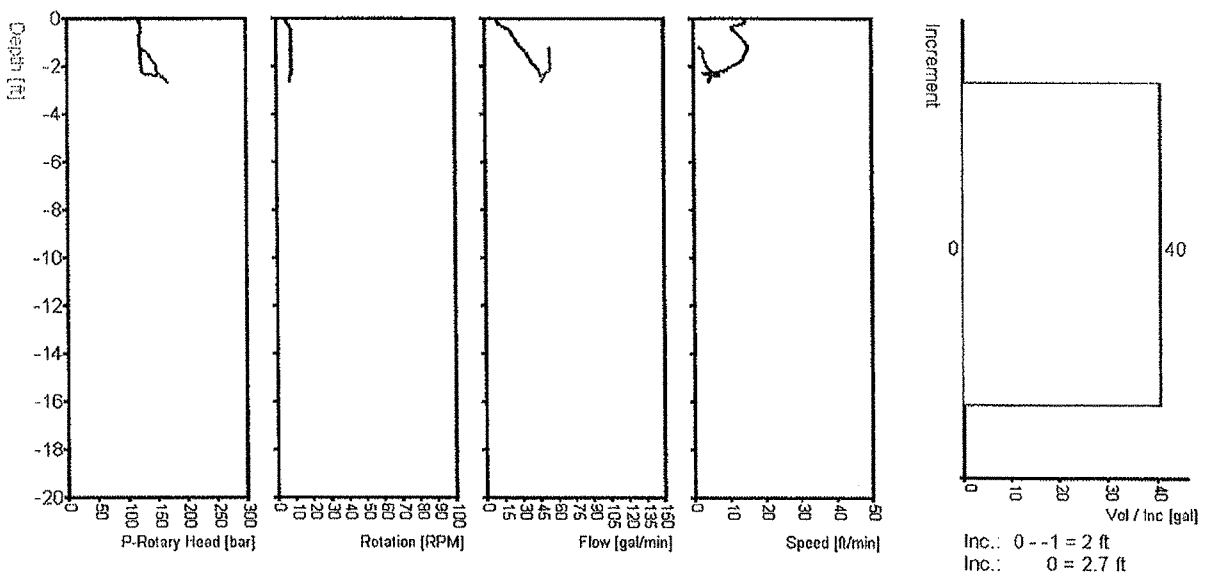
## Data for Pile No: J18

Date: 6/11/2009  
Starttime: 10:36:02 AM  
Endtime: 10:36:56 AM  
Totaltime: 00:00:54  
Pausetime: 00:00:00  
Pilelength: 2.7 ft  
Work pad elevation: 352.9 ft  
Total Volume: 40 gal  
Strokes: 1  
Inclination (X/Y): 0° / -0.4°

## Timediagram



## Depthdiagram



GEO-SOLUTIONS INC.

Little Falls, NY

1.25 W/C Ratio

Water 390 Kilos  
Cement 211 Kilos  
Slag 91 Kilos  
Bentonite 11 Kilos

Batch Plant Form

Date: 6/15/2009

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	1:15	89				Type #1	# 1	# 2
5	1:40	89				Date	6/12/2009	
10	2:30	89				Tons	25.58	
15	3:16	89						
20	3:34	89						
25	4:12	89				Slag	# 1	# 2
30						Date	6/12/2009	
35						Tons	24.98	
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110						Total	25	

# Geo Solutions Soil Mixing / Predrilling for Jet Grouting



## Job Site Data:

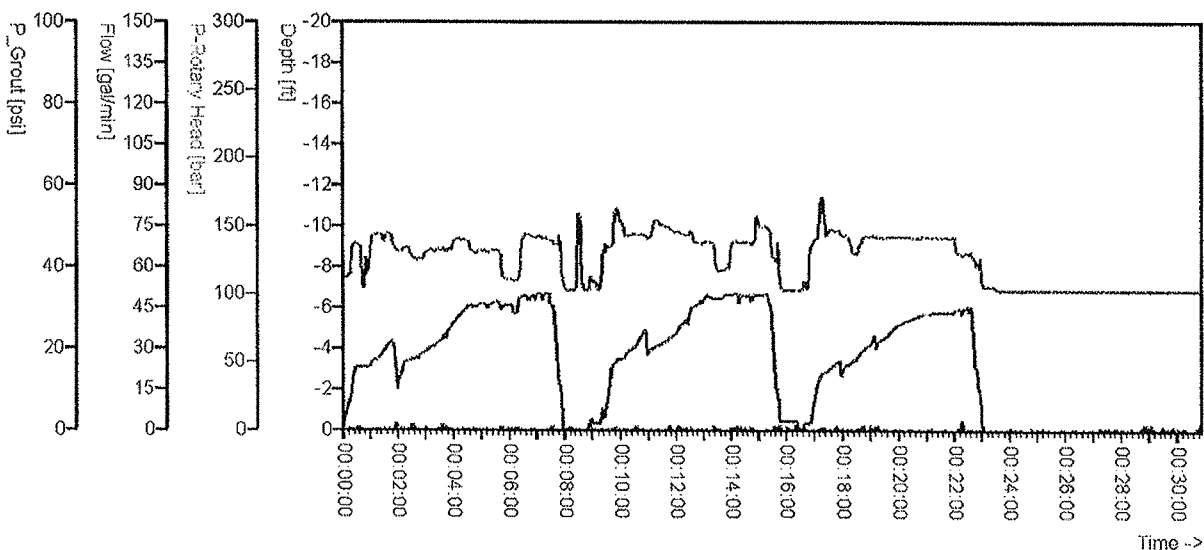
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: P1/J1

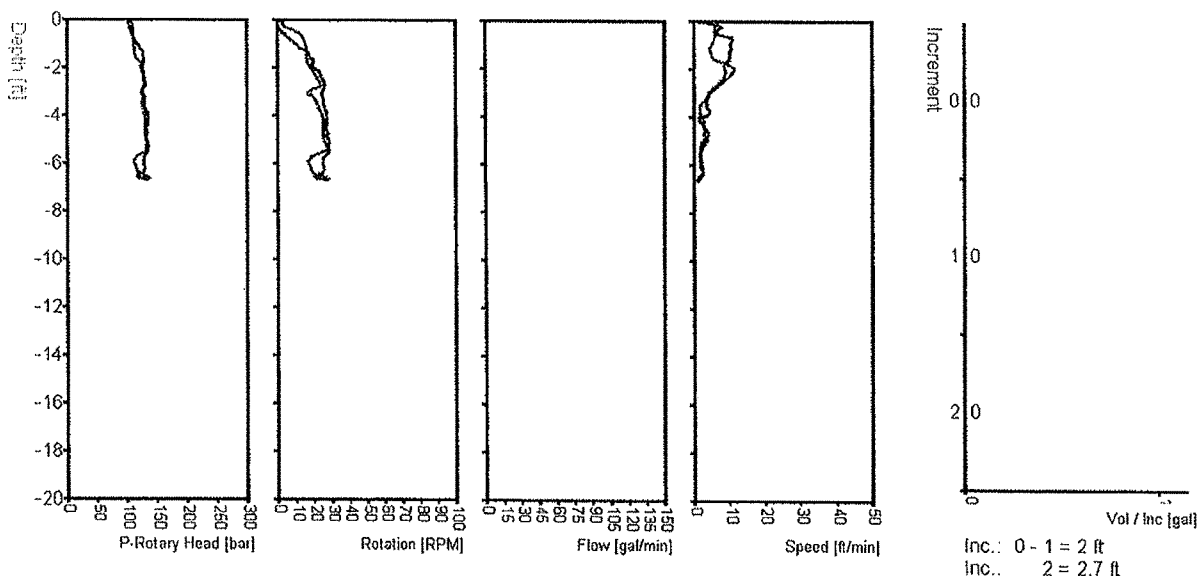
Date: 6/15/2009  
Starttime: 10:18:03 AM  
Endtime: 10:48:53 AM  
Totaltime: 00:30:50  
Pausetime: 00:00:00  
Pilelength: 6.7 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 3  
Inclination (X/Y): 0.1° / 0.1°

*Refusal*

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing / *Pre-drilling for Jet Grouting*



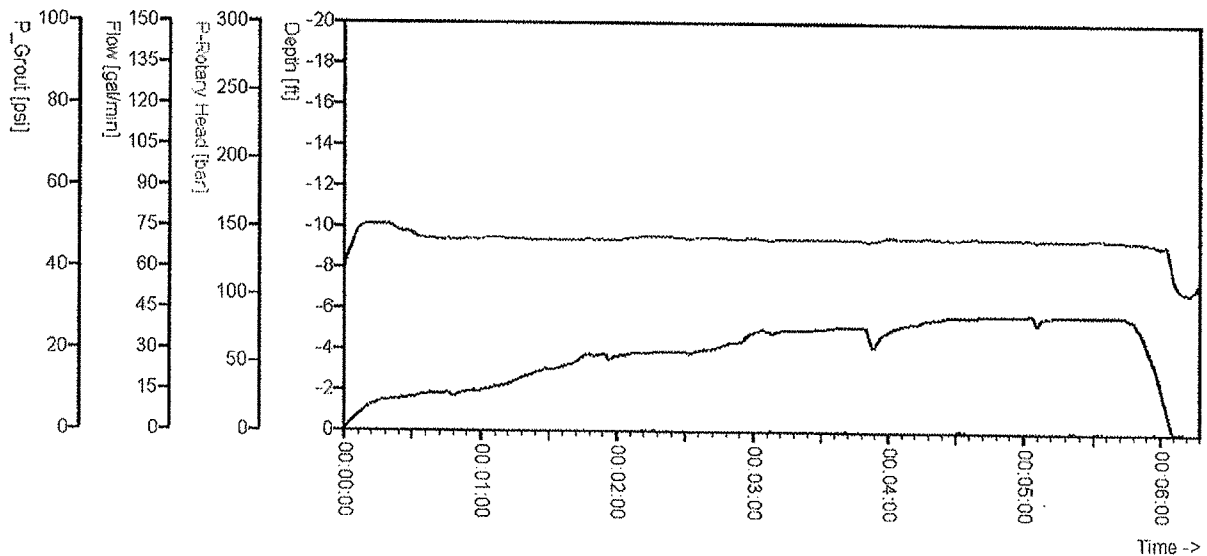
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

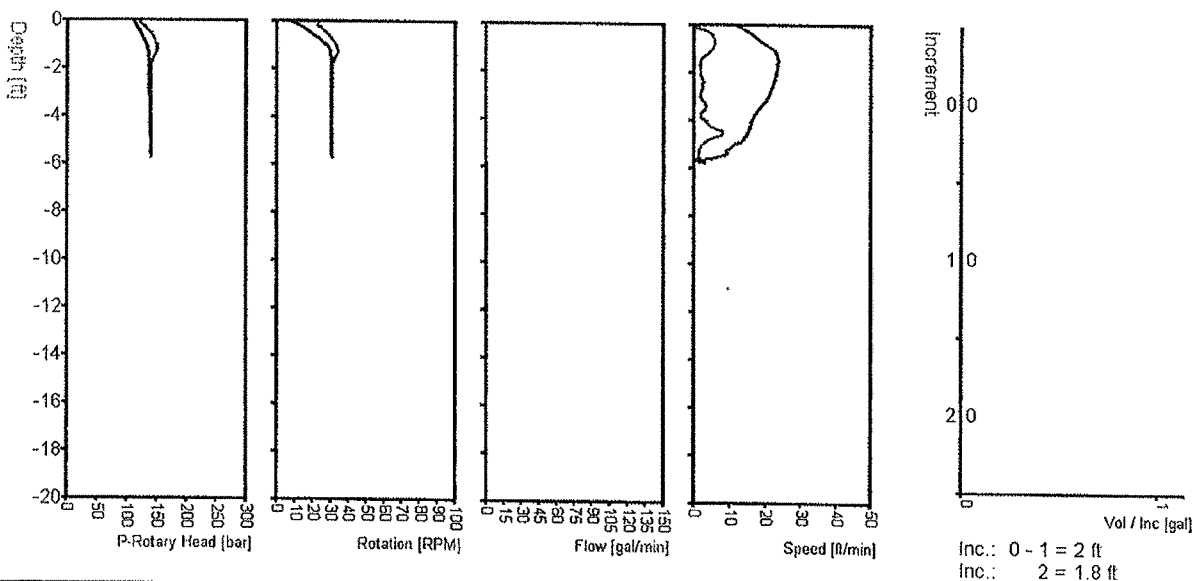
## Data for Pile No: P2 *K2*

Date: 6/15/2009  
Starttime: 12:42:48 PM  
Endtime: 12:49:04 PM  
Totaltime: 00:06:16  
Pausetime: 00:00:00  
Pilelength: 5.8 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / 0°

## Timediagram



## Depthdiagram



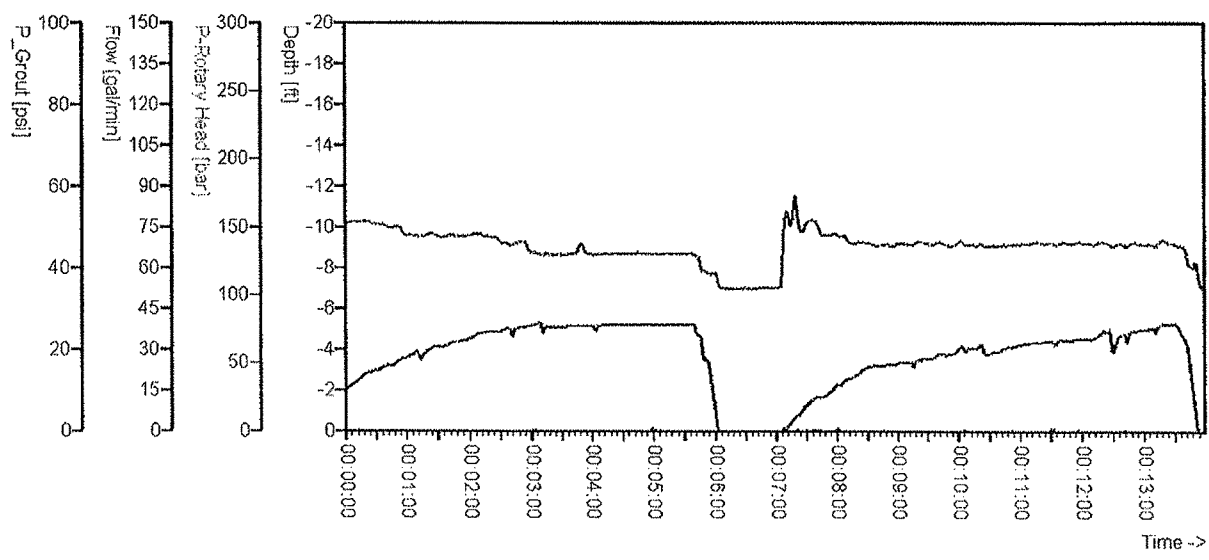
# Geo Solutions Soil Mixing / *Predrilling for Jet Grouting*



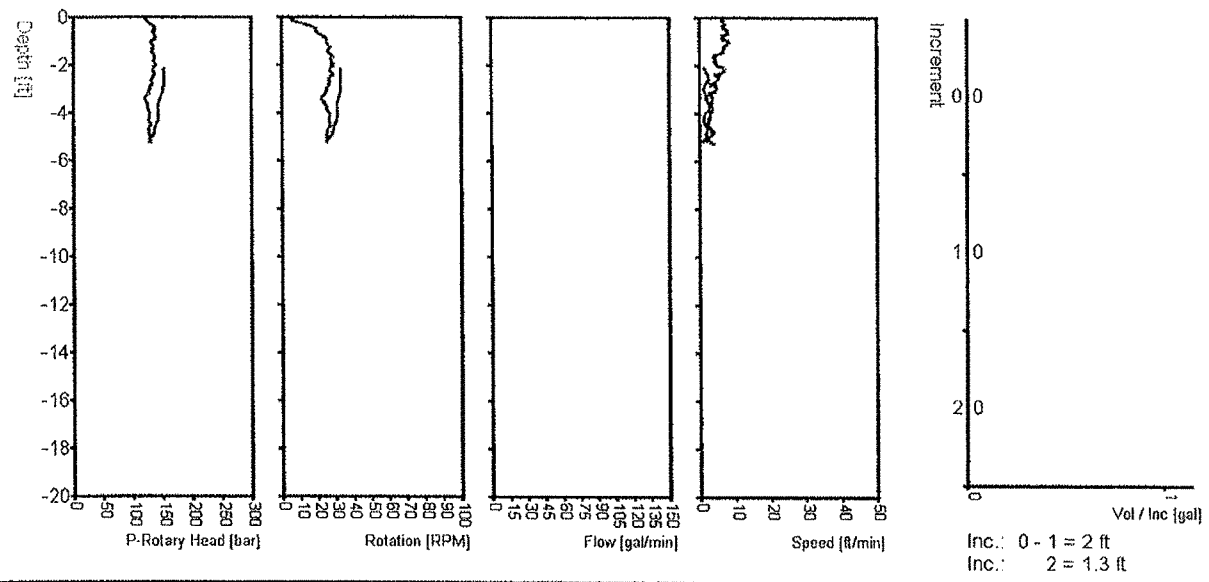
**Job Site Data:**  
 Project name: Feldmeier  
 Area: N.Y.  
 Client: National Grid  
 Contractor: Royal  
 Machine: RH 18

**Data for Pile No: P3/J3**  
 Date: 6/15/2009  
 Starttime: 10:53:39 AM  
 Endtime: 11:07:36 AM  
 Totaltime: 00:13:57  
 Pausetime: 00:00:00  
 Pilelength: 5.3 ft *Refused*  
 Work pad elevation: 353.4 ft  
 Total Volume: 0 gal  
 Strokes: 2  
 Inclination (X/Y): 0.2° / -0.1°

**Timediagram**



**Depthdiagram**



# Geo Solutions Soil Mixing

*Predrilling for Jet  
Grouting*



## Job Site Data:

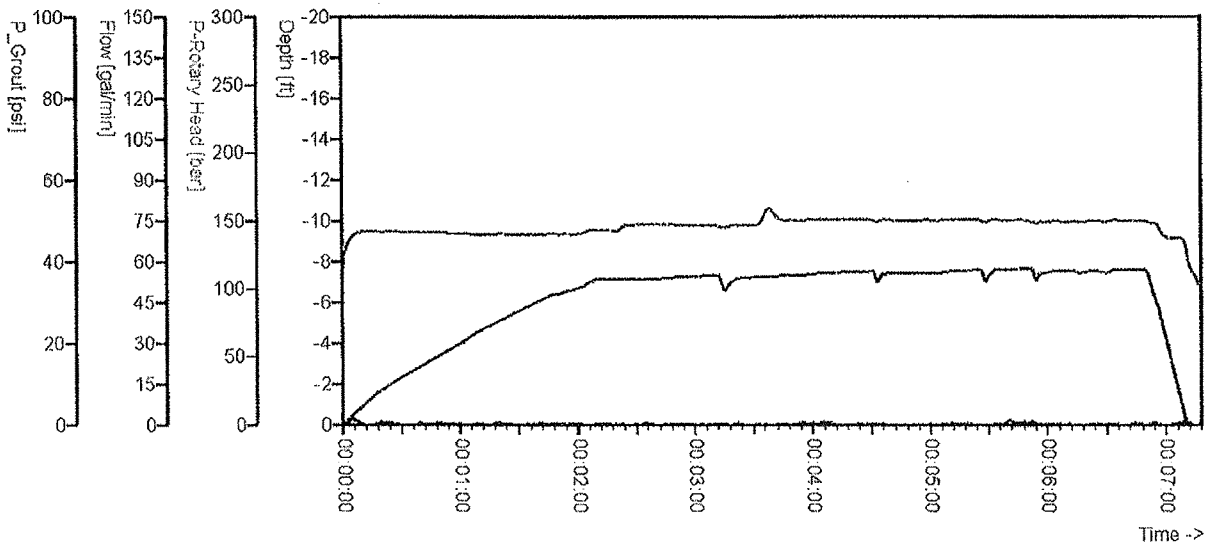
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: P7/J7

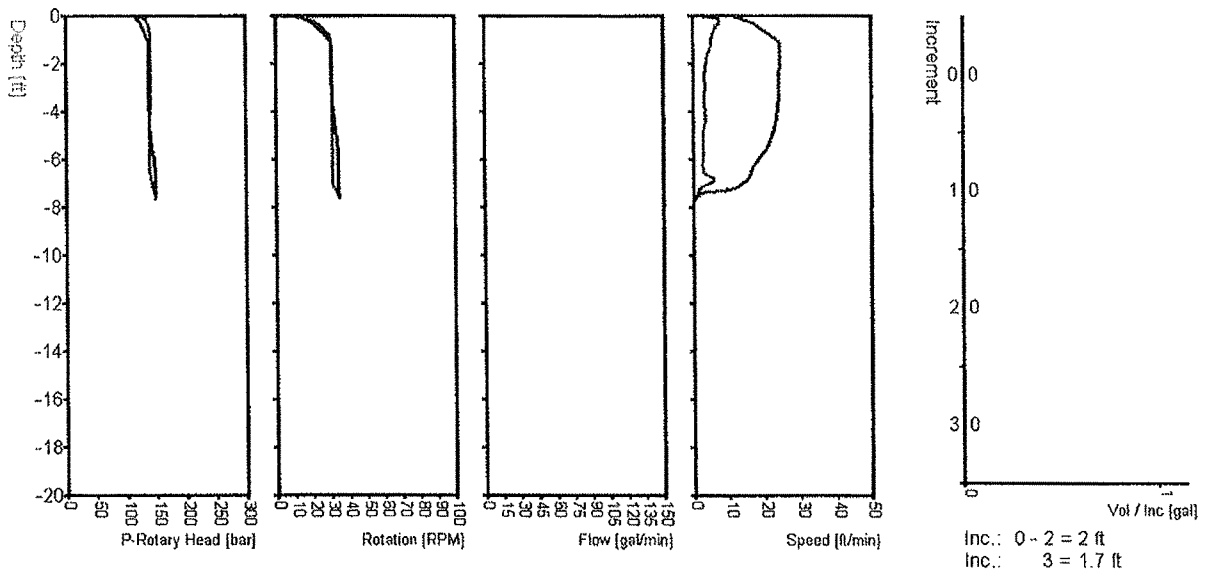
*Refused*

Date: 6/15/2009  
Starttime: 12:51:16 PM  
Endtime: 12:58:32 PM  
Totaltime: 00:07:16  
Pausetime: 00:00:00  
Pilelength: 7.7 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Predrilling for Jet  
Grouting*



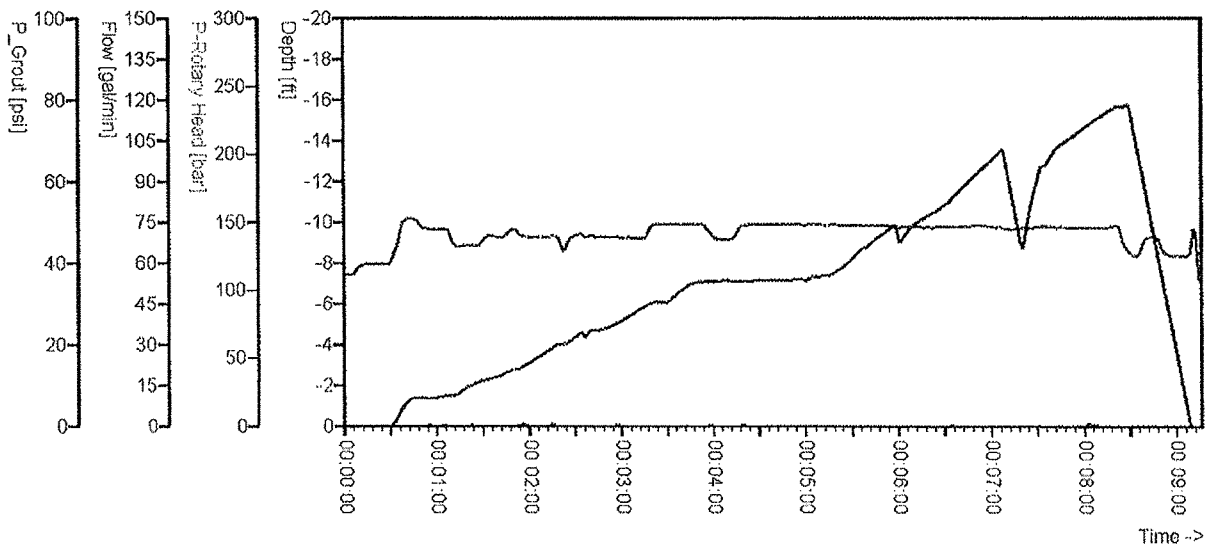
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

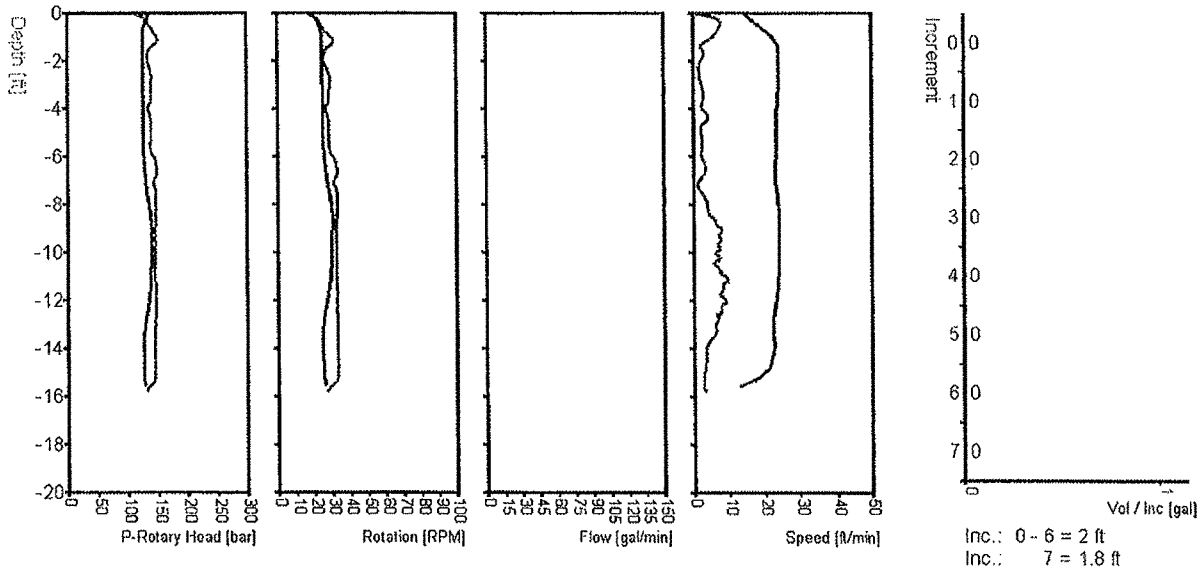
## Data for Pile No: P8

Date: 6/15/2009  
Starttime: 12:30:44 PM  
Endtime: 12:39:59 PM  
Totaltime: 00:09:15  
Pausetime: 00:00:00  
Pilelength: 15.8 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



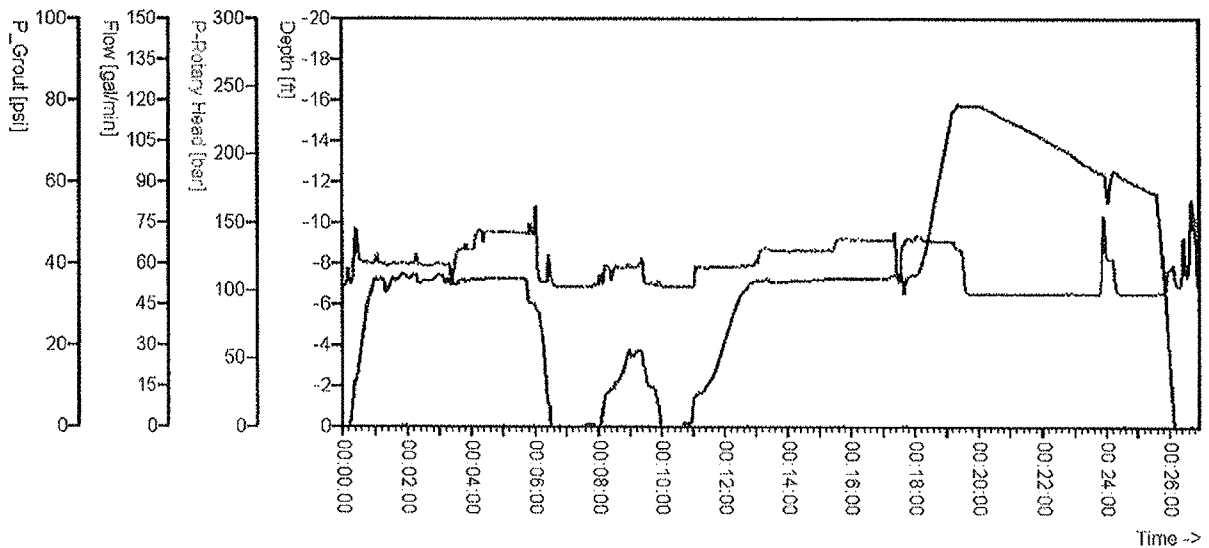
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

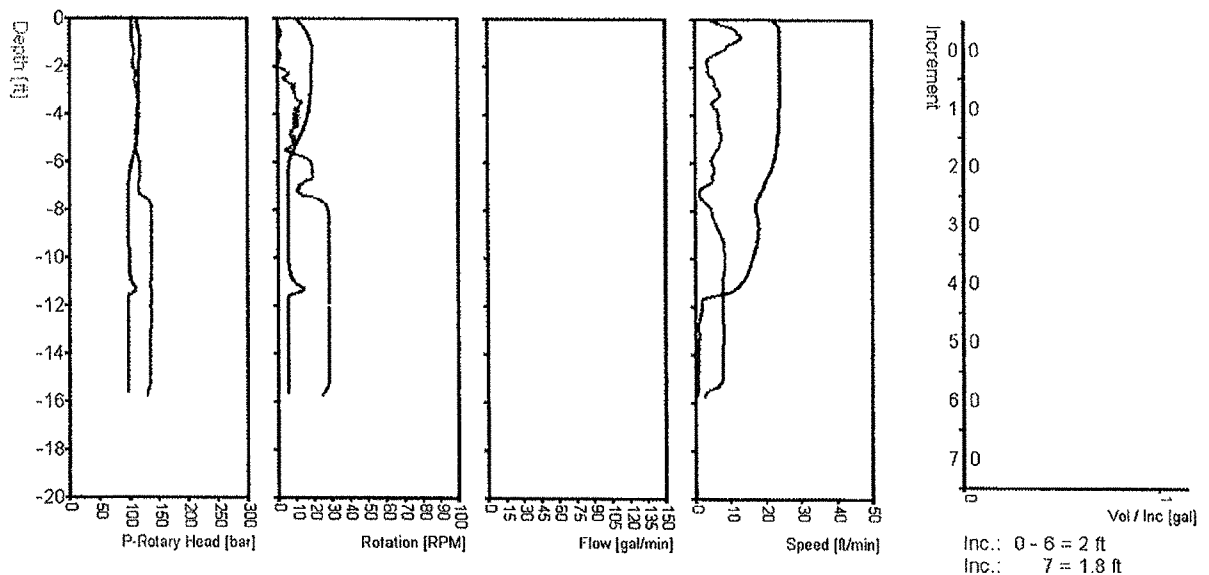
## Data for Pile No: J8

Date: 6/15/2009  
Starttime: 3:33:42 PM  
Endtime: 4:00:35 PM  
Totaltime: 00:26:53  
Pausetime: 00:00:00  
Pilelength: 15.8 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / 0°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing / Predrilling *for Jet* *Grouting*



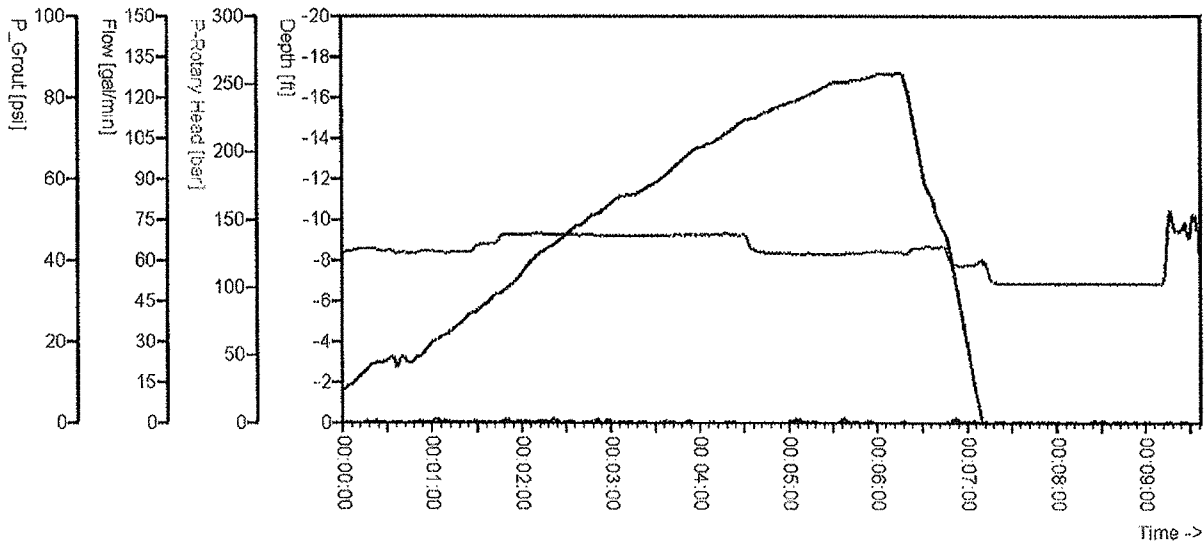
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

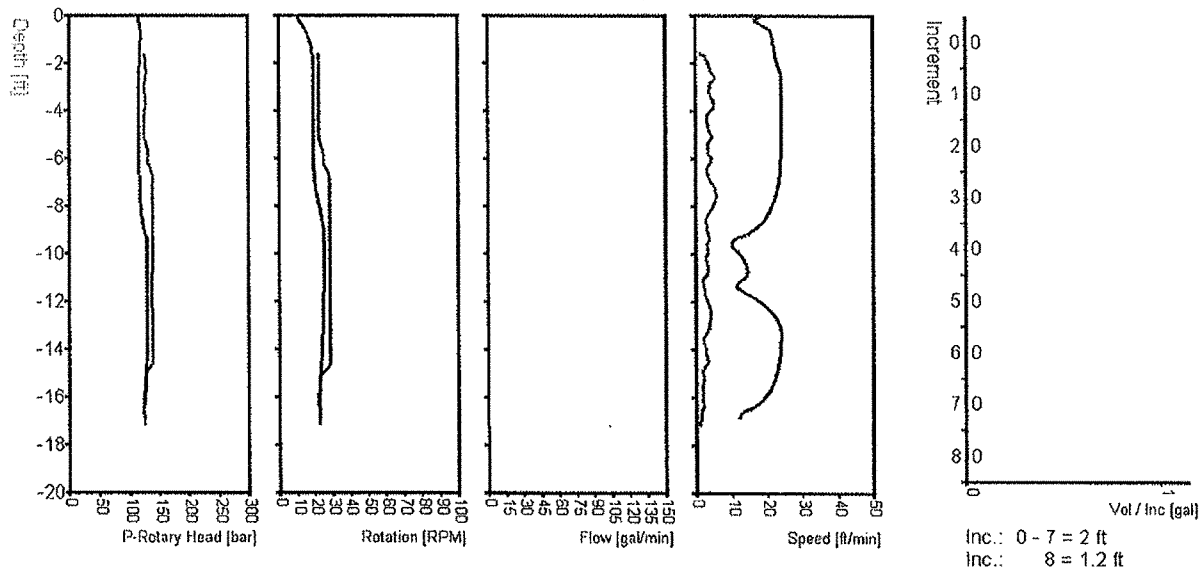
## Data for Pile No: P9 / J9

Date: 6/15/2009  
Starttime: 10:07:17 AM  
Endtime: 10:16:52 AM  
Totaltime: 00:09:35  
Pausetime: 00:00:00  
Pilelength: 17.2 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



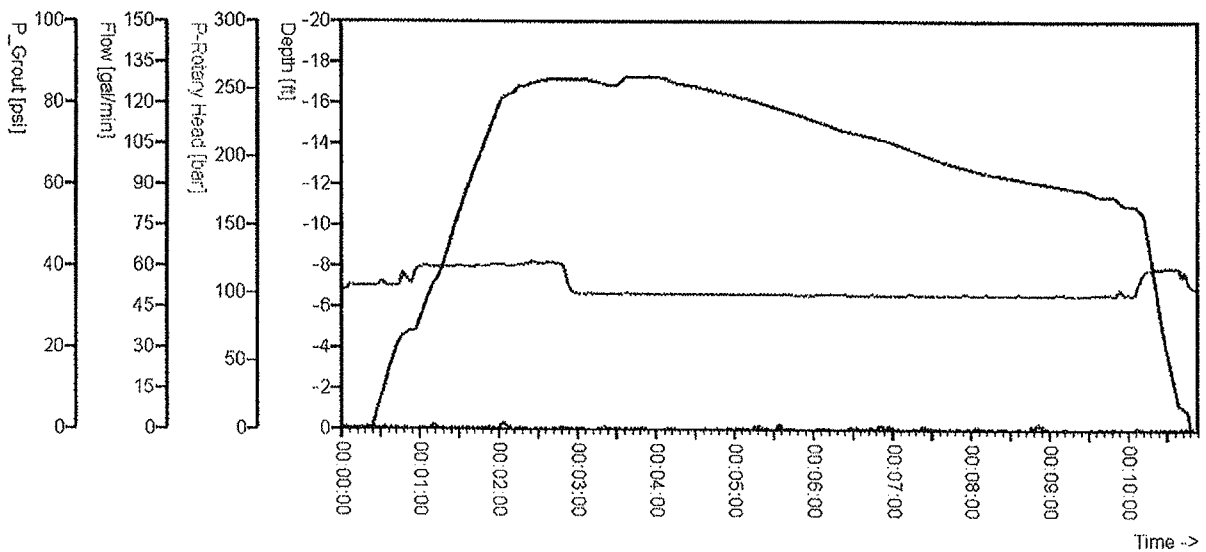
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

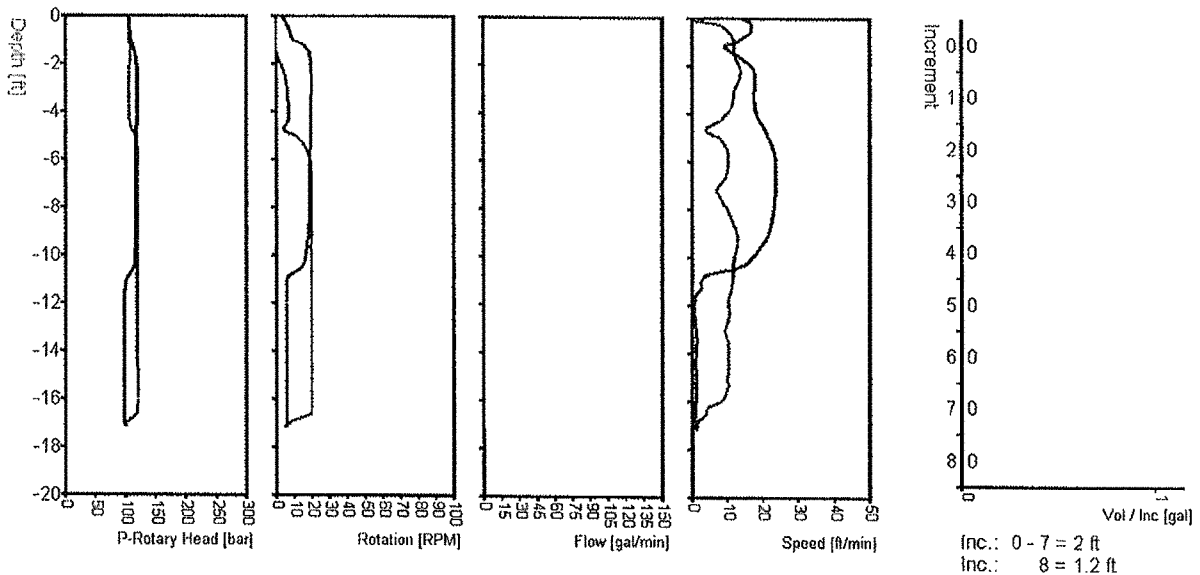
## Data for Pile No: J9

Date: 6/15/2009  
Starttime: 2:40:48 PM  
Endtime: 2:51:39 PM  
Totaltime: 00:10:51  
Pausetime: 00:00:00  
Pilelength: 17.2 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions

Soil Mixing / Predrilling for Jet  
Grouting



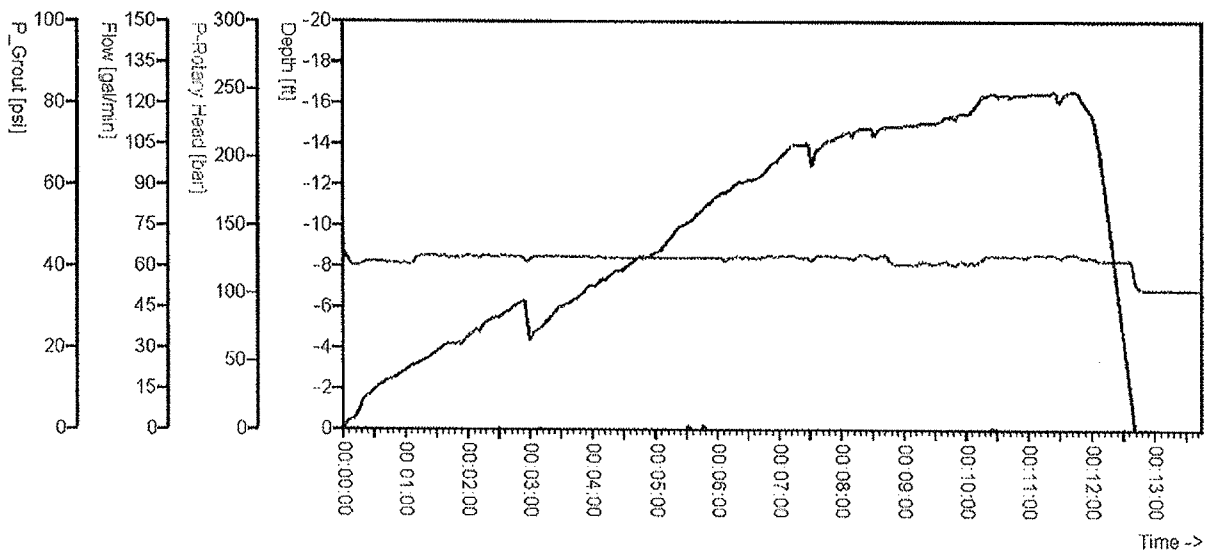
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

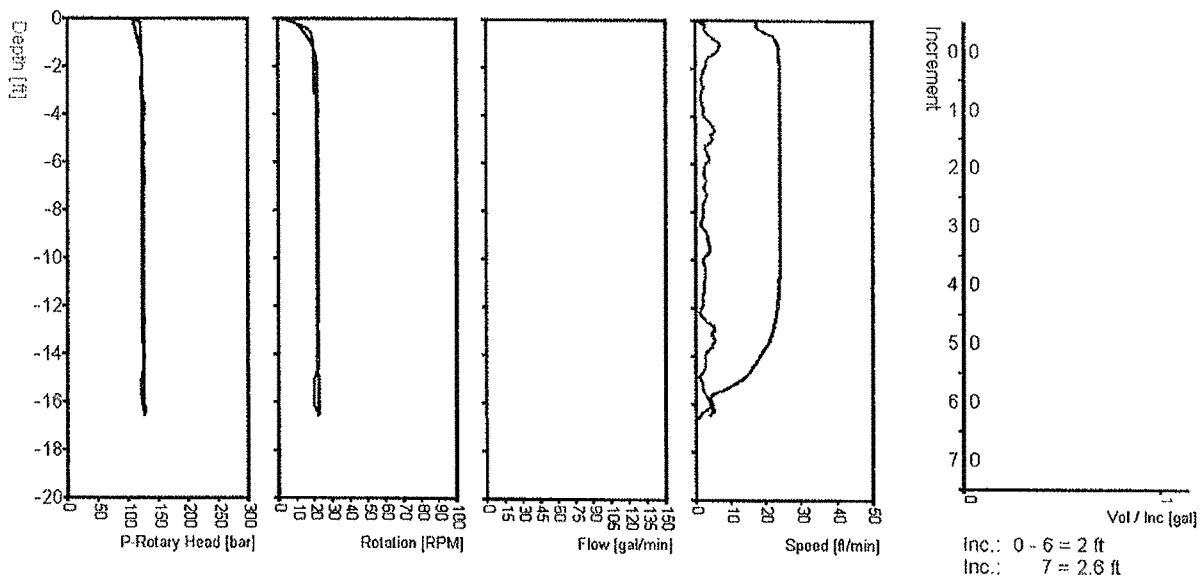
## Data for Pile No: P10 / J10

Date: 6/15/2009  
Starttime: 9:39:11 AM  
Endtime: 9:52:54 AM  
Totaltime: 00:13:43  
Pausetime: 00:00:00  
Pilelength: 16.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



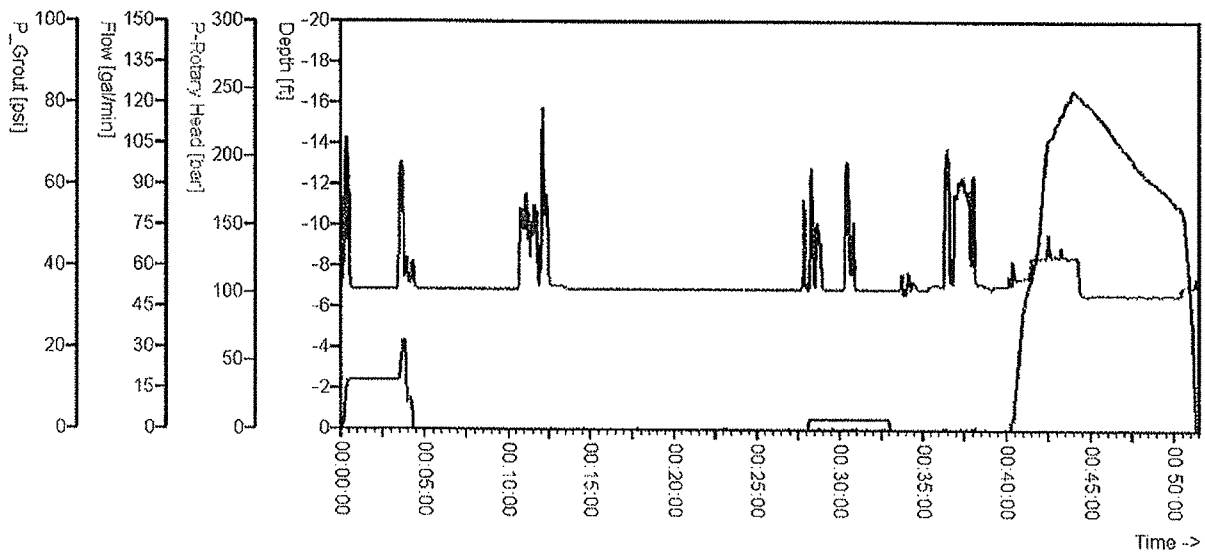
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

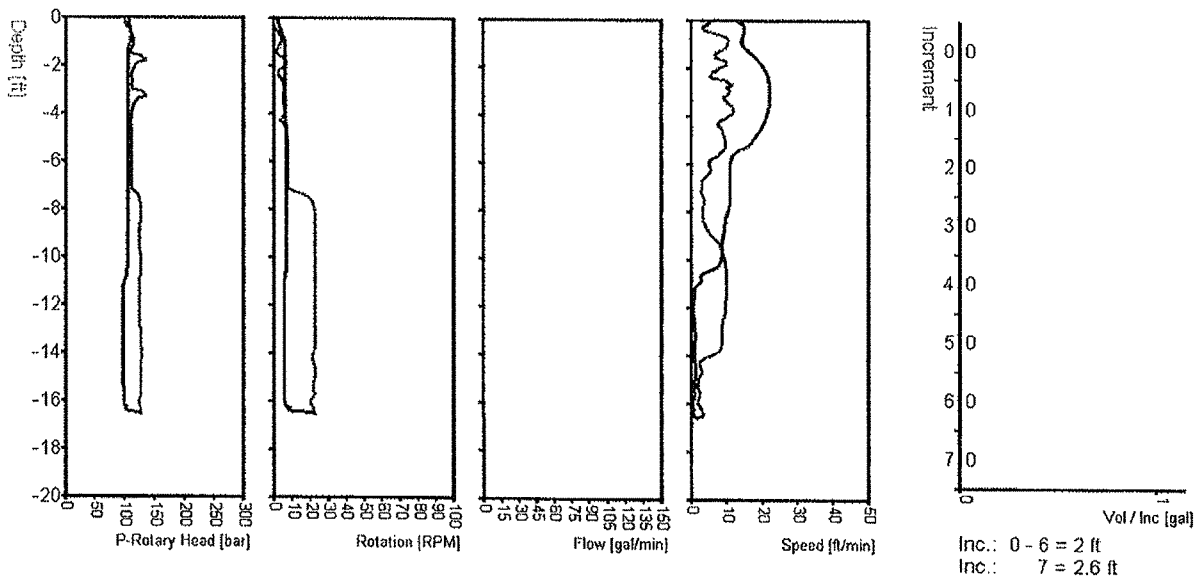
## Data for Pile No: J10

Date: 6/15/2009  
Starttime: 1:46:15 PM  
Endtime: 2:37:40 PM  
Totaltime: 00:51:25  
Pausetime: 00:00:00  
Pilelength: 16.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.7° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Pre-mixing for Jet Grouting*



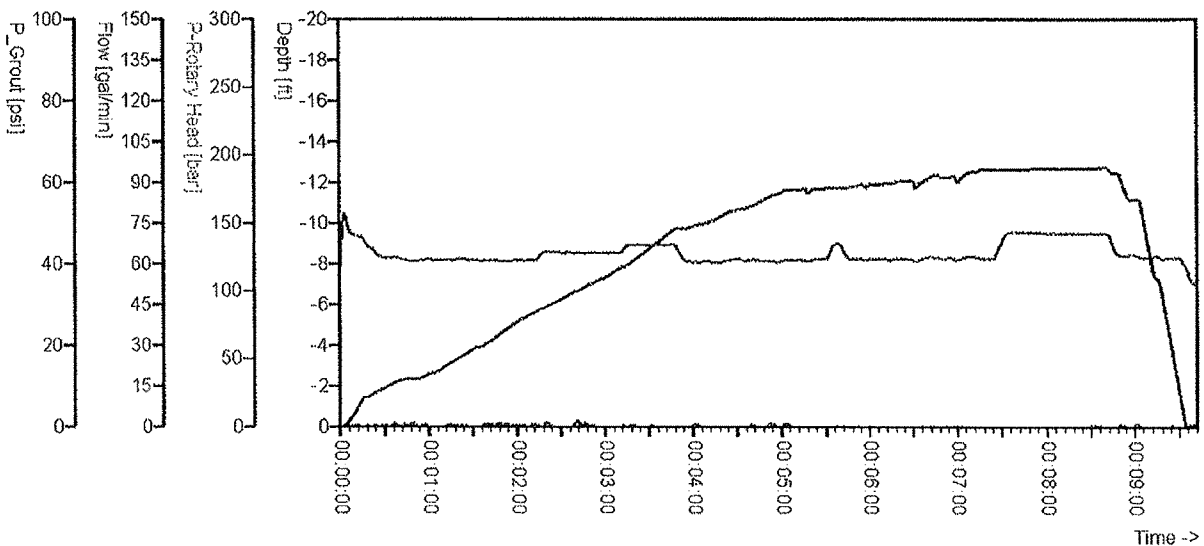
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

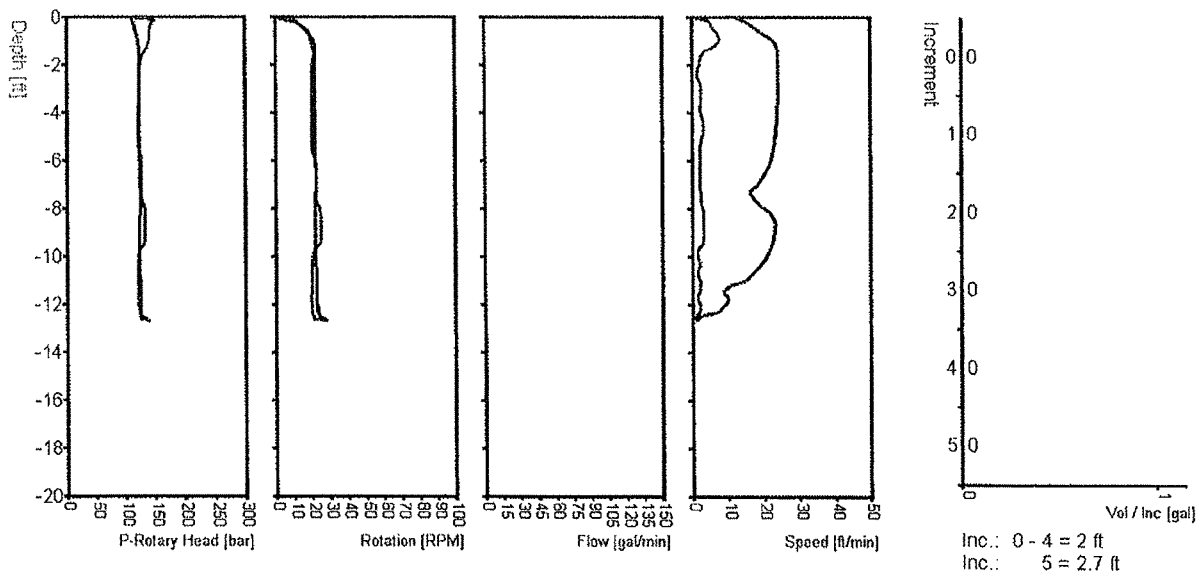
## Data for Pile No: P11 / J 11

Date: 6/15/2009  
Starttime: 9:27:04 AM  
Endtime: 9:36:45 AM  
Totaltime: 00:09:41  
Pausestime: 00:00:00  
Pilelength: 12.7 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / -0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



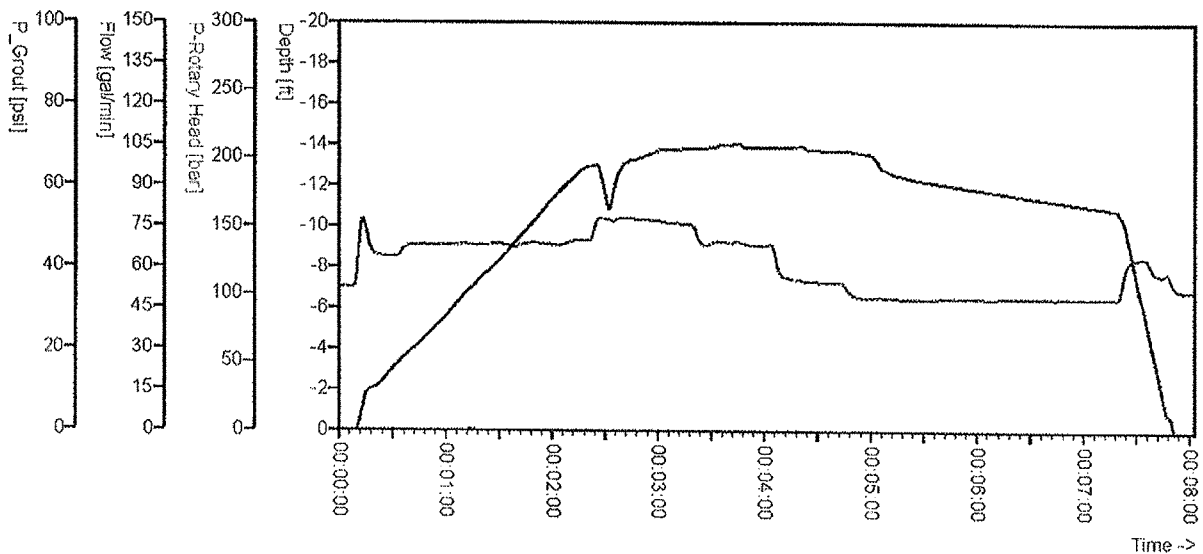
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

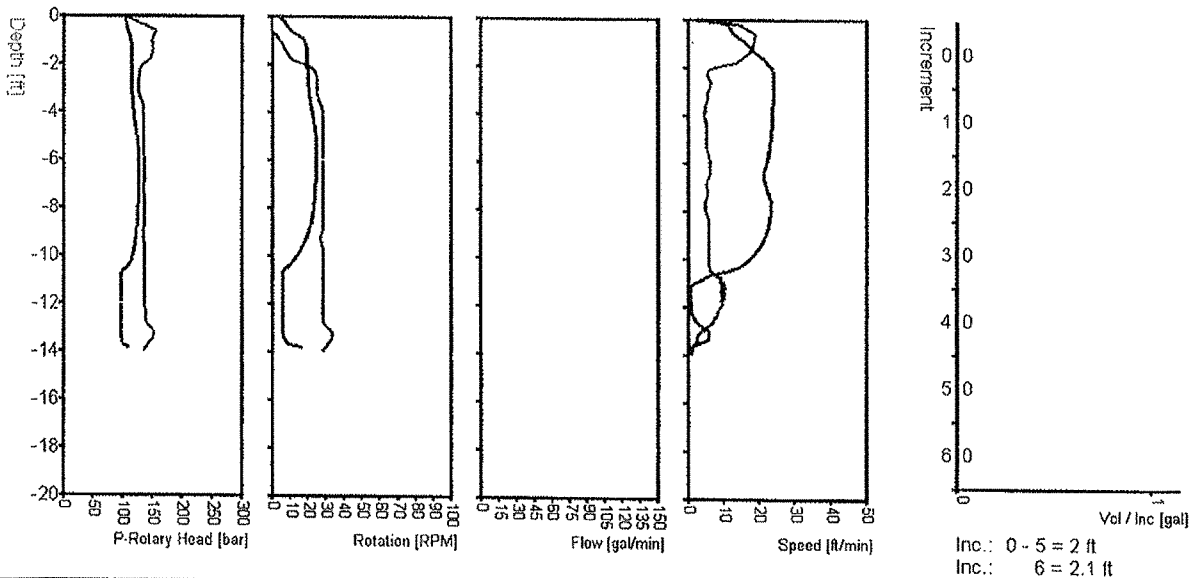
## Data for Pile No: J11

Date: 6/15/2009  
Starttime: 1:35:38 PM  
Endtime: 1:43:39 PM  
Totaltime: 00:08:01  
Pausetime: 00:00:00  
Pilelength: 14.1 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions

## Soil Mixing/Predrilling for Jet Grouting



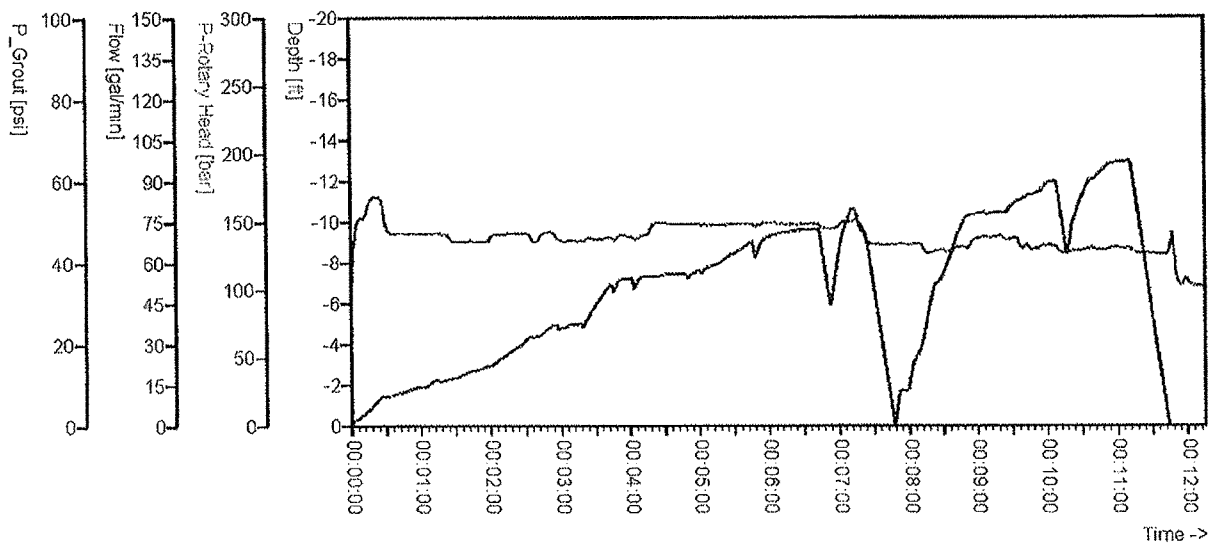
### Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

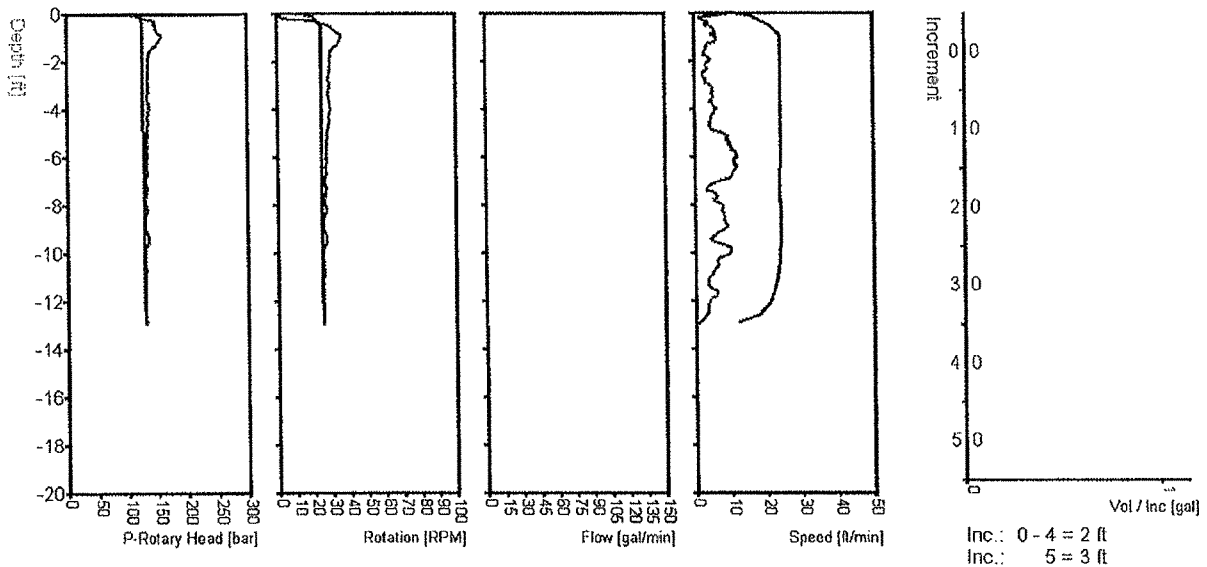
### Data for File No: P12/J-12

Date: 6/15/2009  
Starttime: 11:26:48 AM  
Endtime: 11:39:01 AM  
Totaltime: 00:12:13  
Pausetime: 00:00:00  
Pilelength: 13 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / 0°

### Timediagram



### Depthdiagram



# Geo Solutions Soil Mixing



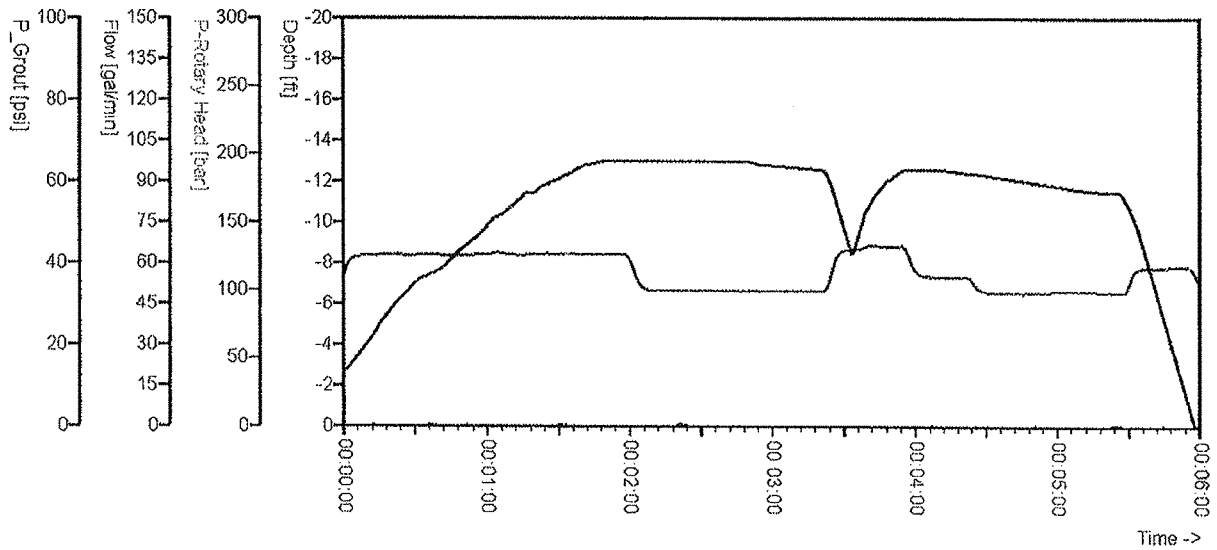
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

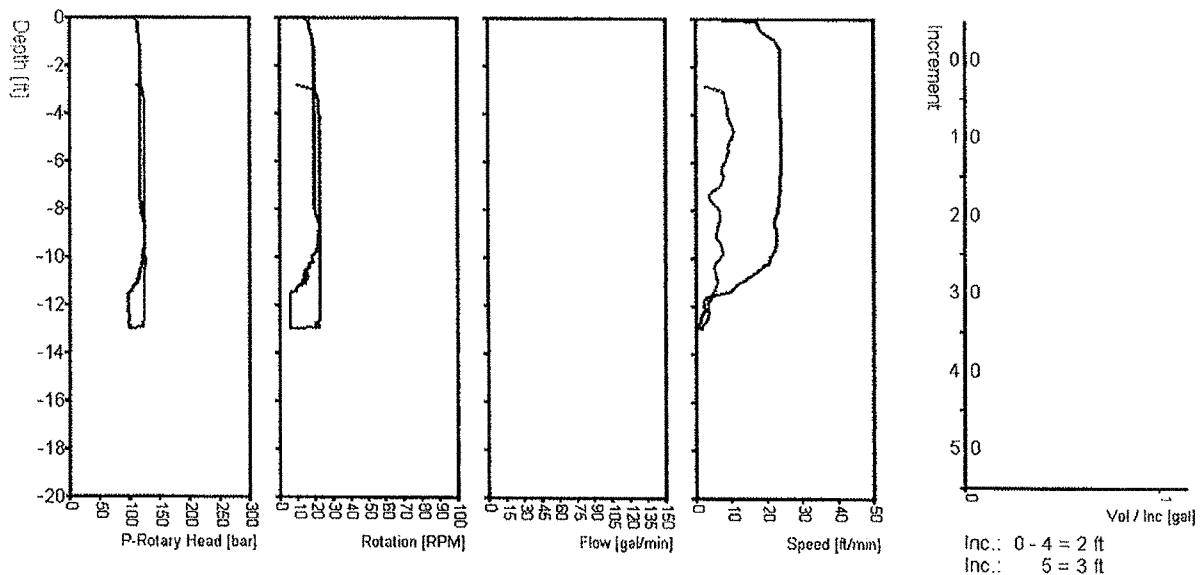
## Data for Pile No: J12

Date: 6/15/2009  
Starttime: 3:25:12 PM  
Endtime: 3:31:10 PM  
Totaltime: 00:05:58  
Pausetime: 00:00:00  
Pilelength: 13 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Pre-drilling for Jet  
Grouting*



## Job Site Data:

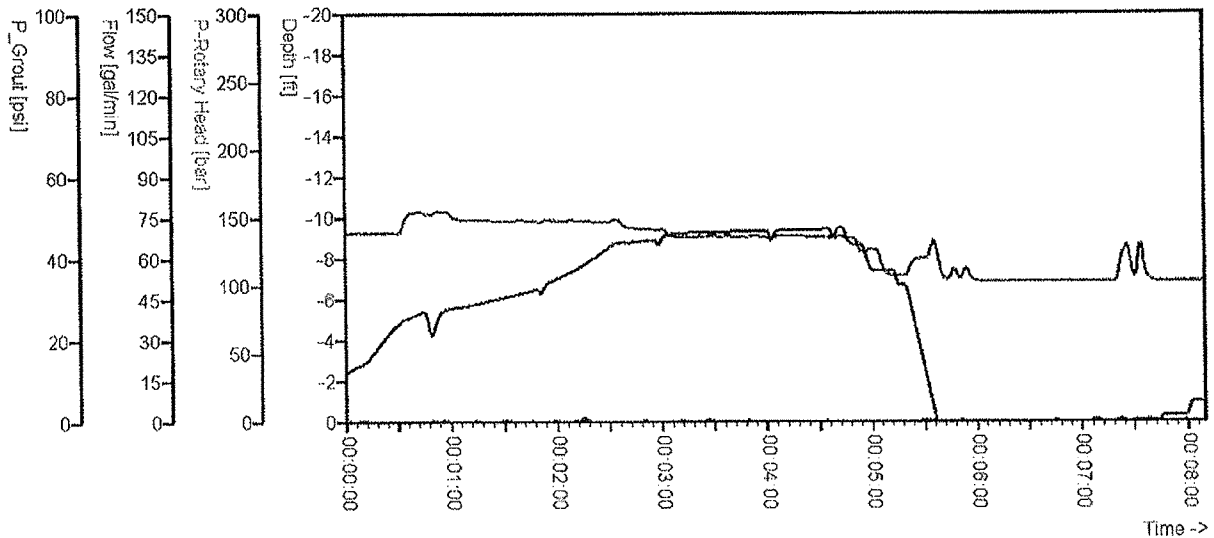
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: J13

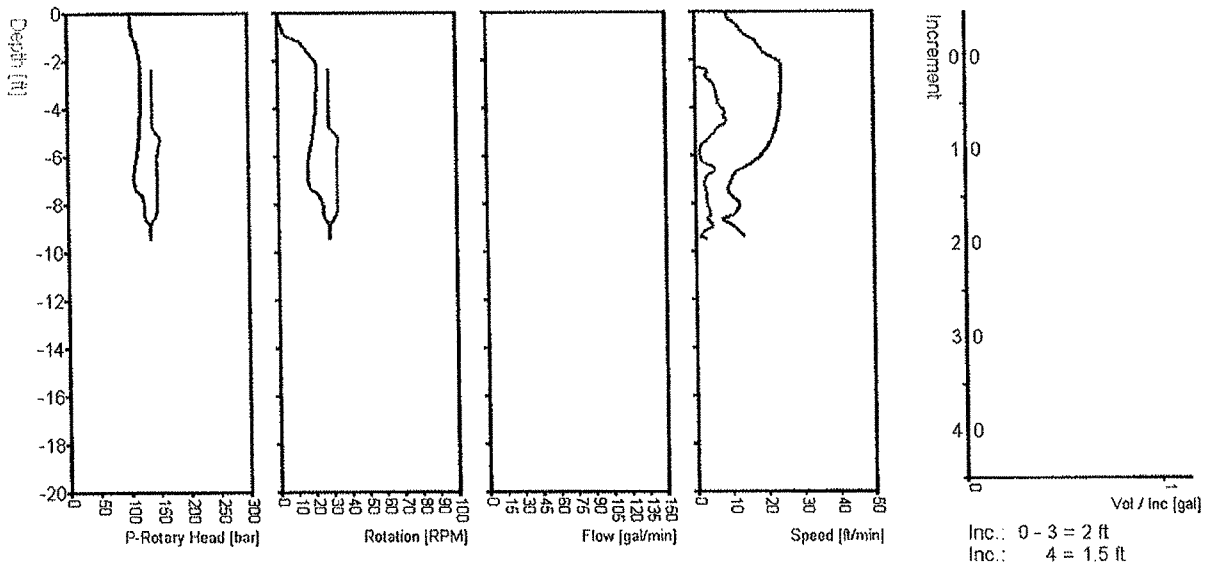
Date: 6/15/2009  
Starttime: 2:58:59 PM  
Endtime: 3:07:08 PM  
Totaltime: 00:08:09  
Pausetime: 00:00:00

Pilelength: 9.5 ft  
Work pad elevation: 353.8 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.3° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing / *Predrilling for Jet*



## Job Site Data:

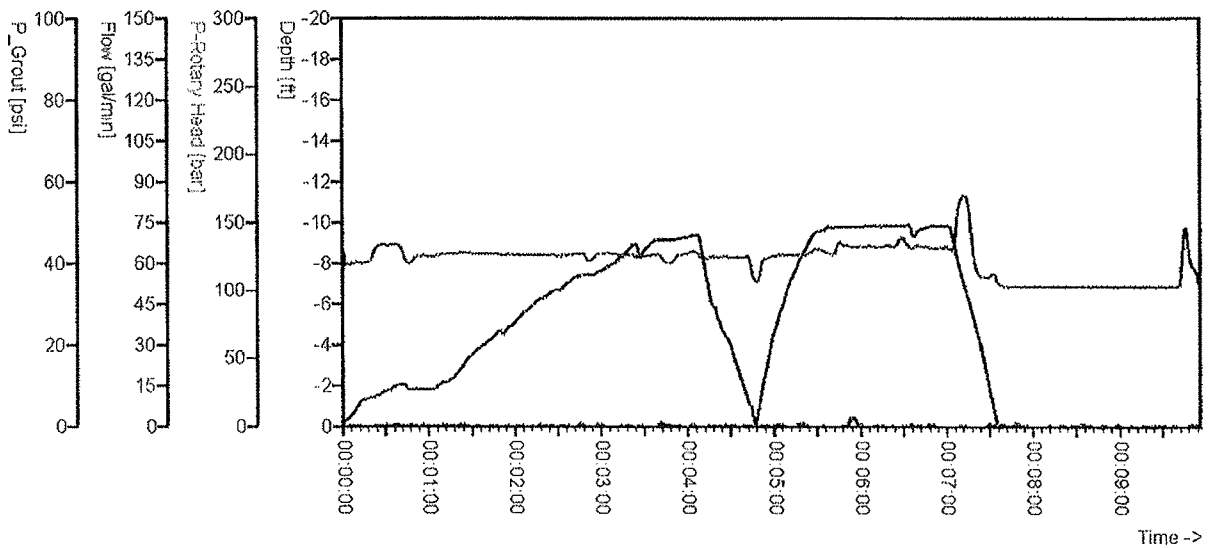
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: P14

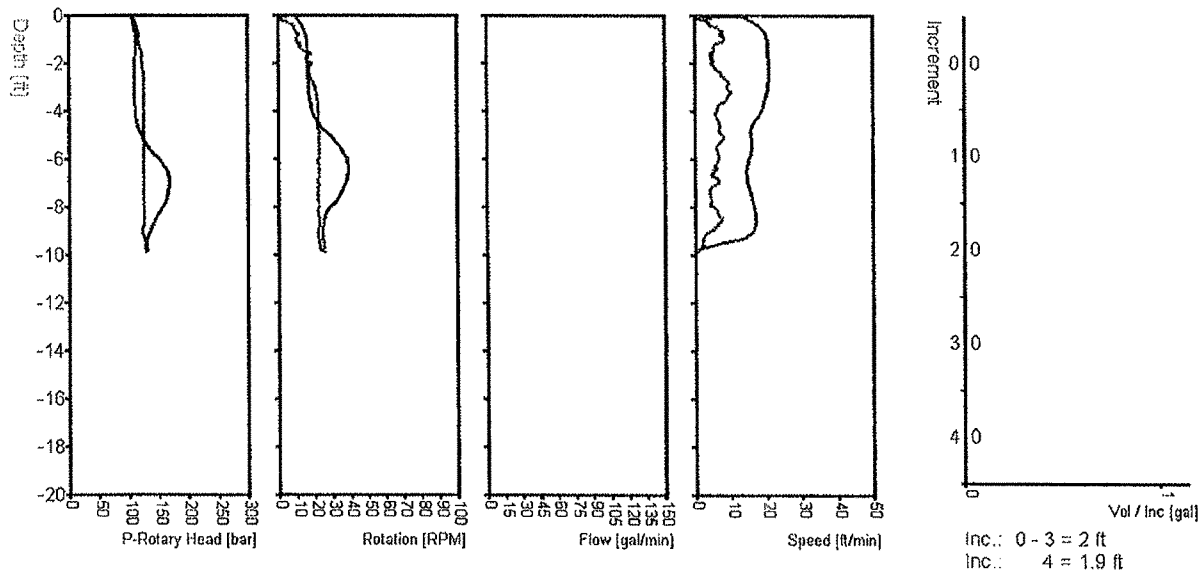
*/J 14 Refusa/*

Date: 6/15/2009  
Starttime: 9:55:49 AM  
Endtime: 10:05:43 AM  
Totaltime: 00:09:54  
Pausetime: 00:00:00  
Pilelength: 9.9 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 2  
Inclination (X/Y): 0.1° / 0°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing / *Predrilling for Jet Grouting*



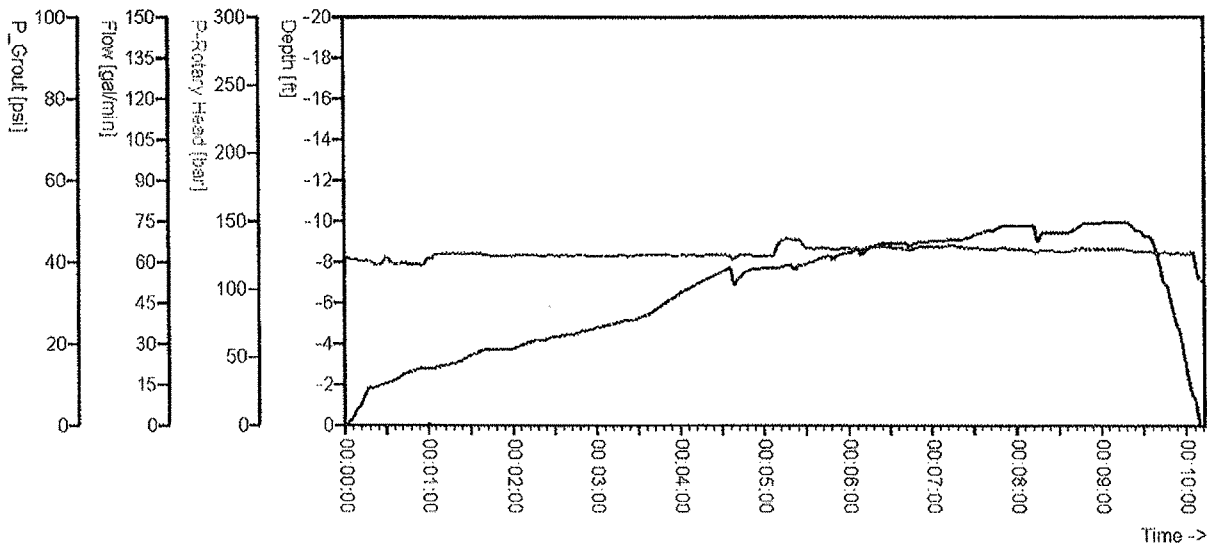
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

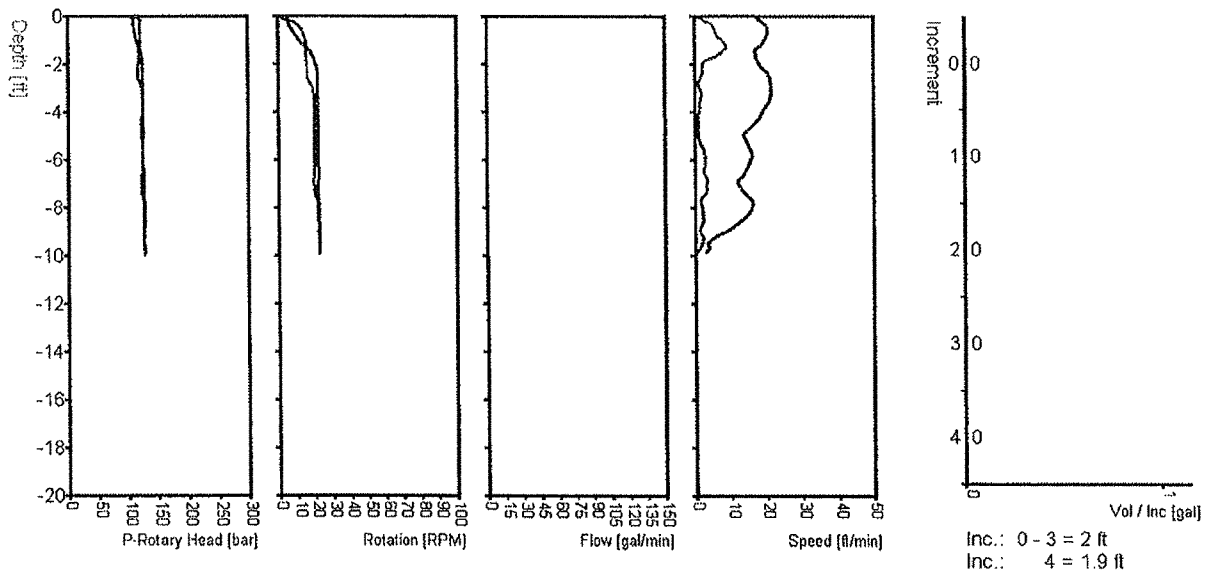
## Data for File No: P15 / *J15 Refusal*

Date: 6/15/2009  
Starttime: 9:14:35 AM  
Endtime: 9:24:46 AM  
Totaltime: 00:10:11  
Pausetime: 00:00:00  
Pilelength: 9.9 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.3° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*/Predrilling for Jet  
Grouting*



## Job Site Data:

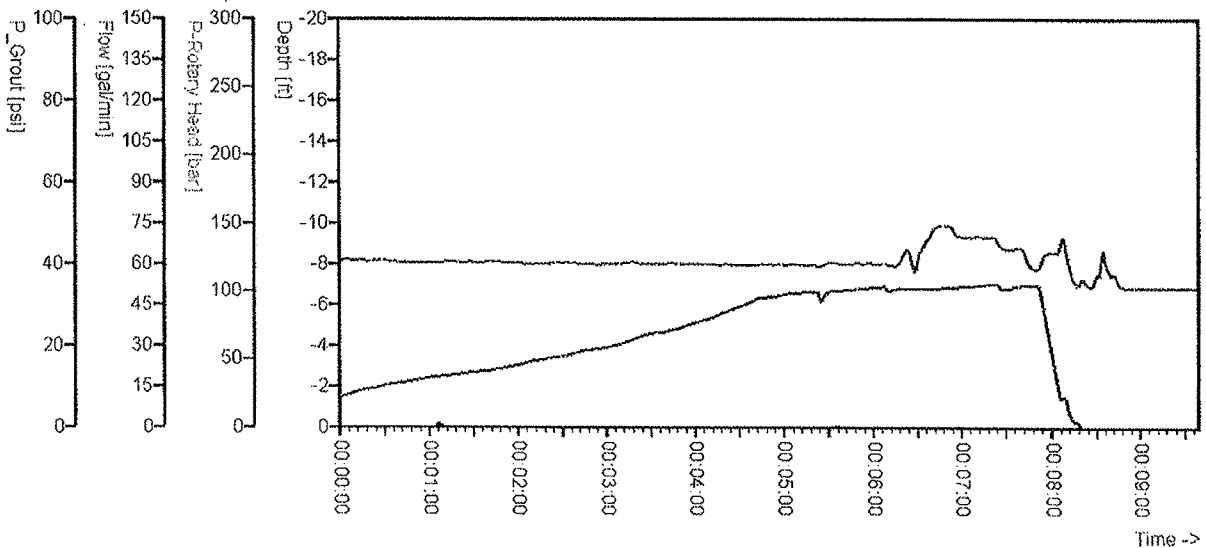
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: J16

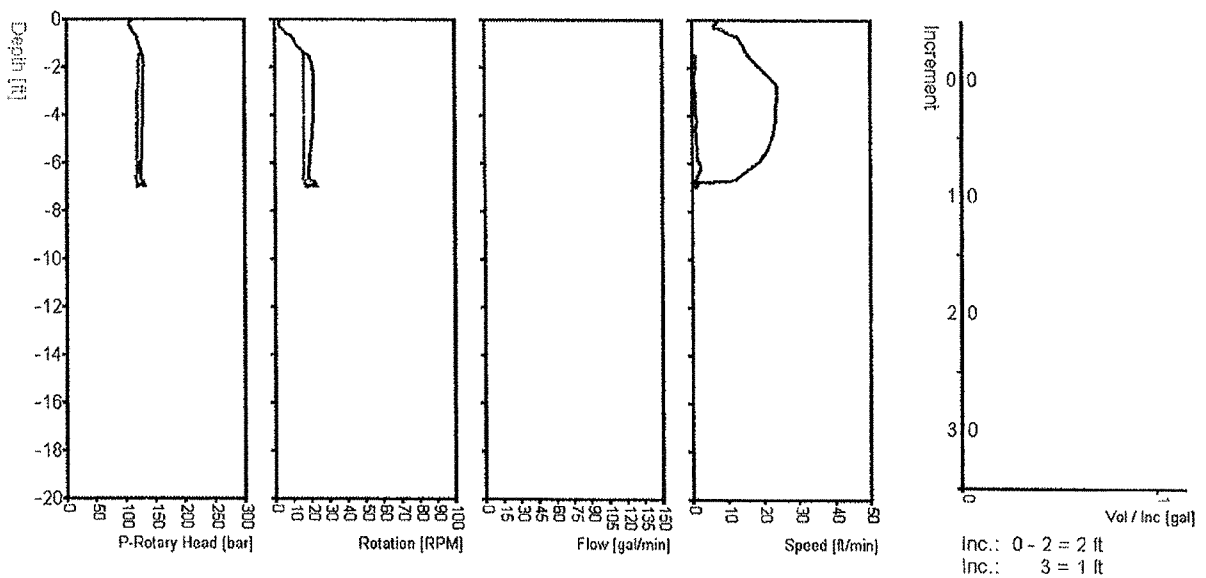
*Refusal*

Date: 6/15/2009  
Starttime: 9:00:02 AM  
Endtime: 9:09:40 AM  
Totaltime: 00:09:38  
Pausetime: 00:00:00  
Pilelength: 7 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing / Predrilling for Jet



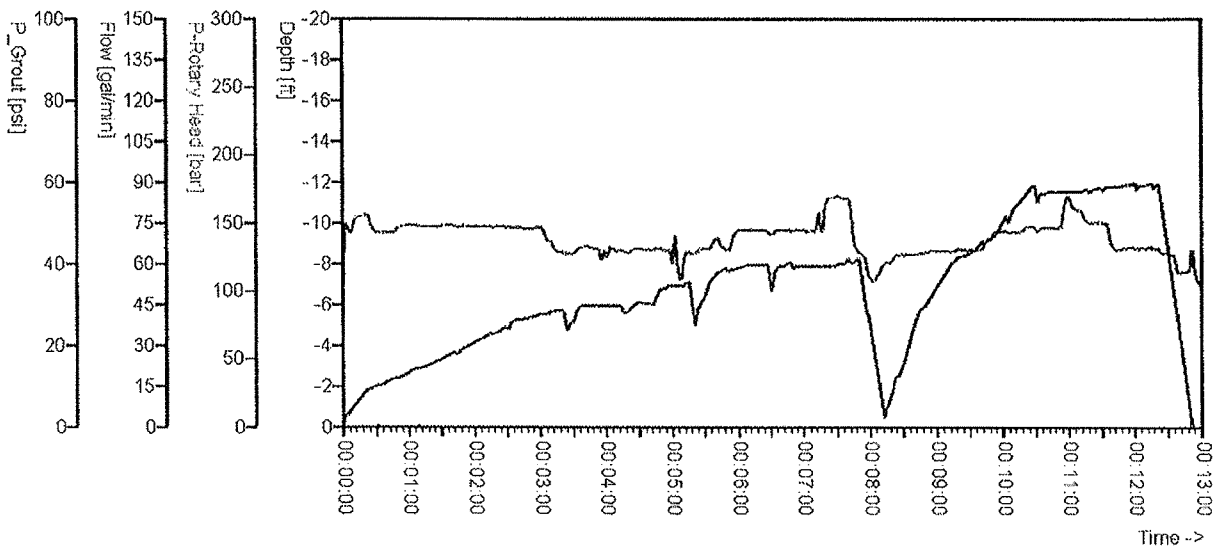
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

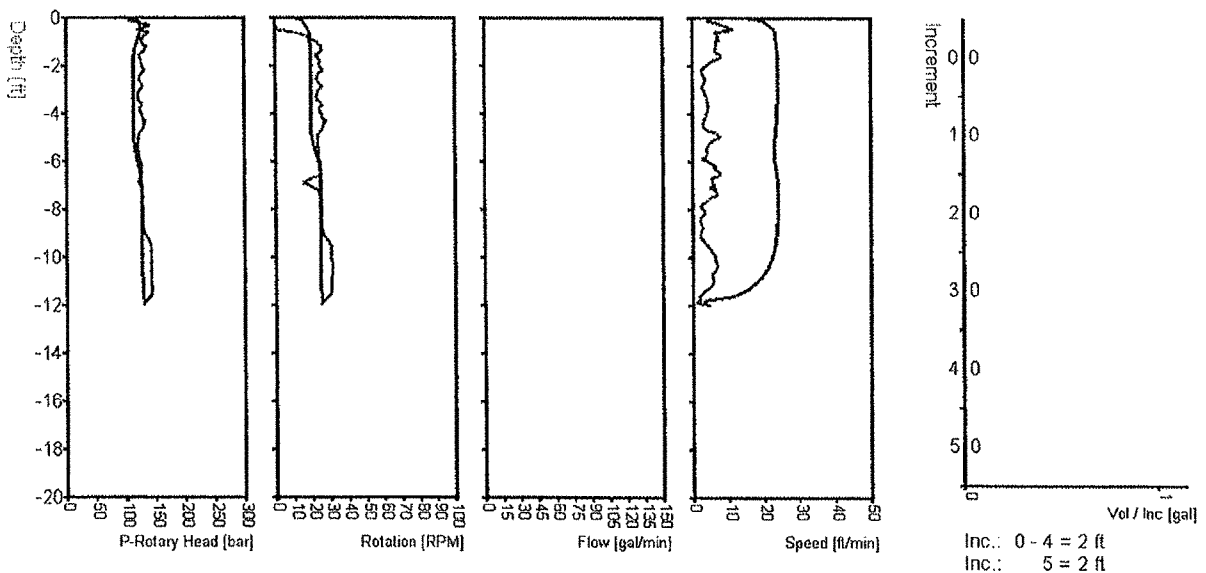
## Data for Pile No: P19 JT-19

Date: 6/15/2009  
Starttime: 11:09:52 AM  
Endtime: 11:22:50 AM  
Totaltime: 00:12:58  
Pausetime: 00:00:00  
Pilelength: 12 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.2° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing



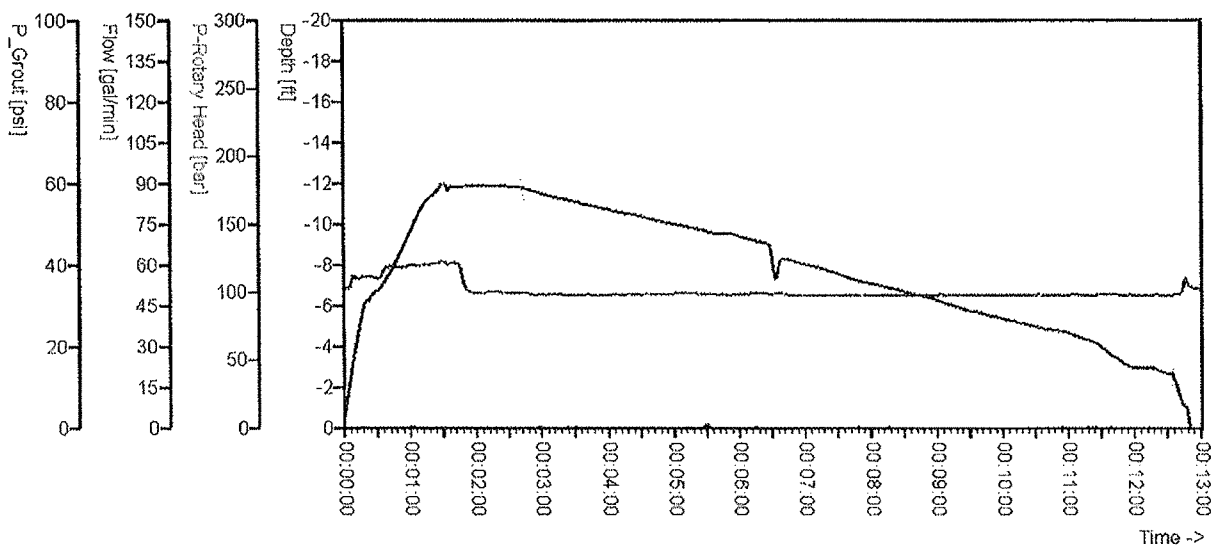
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

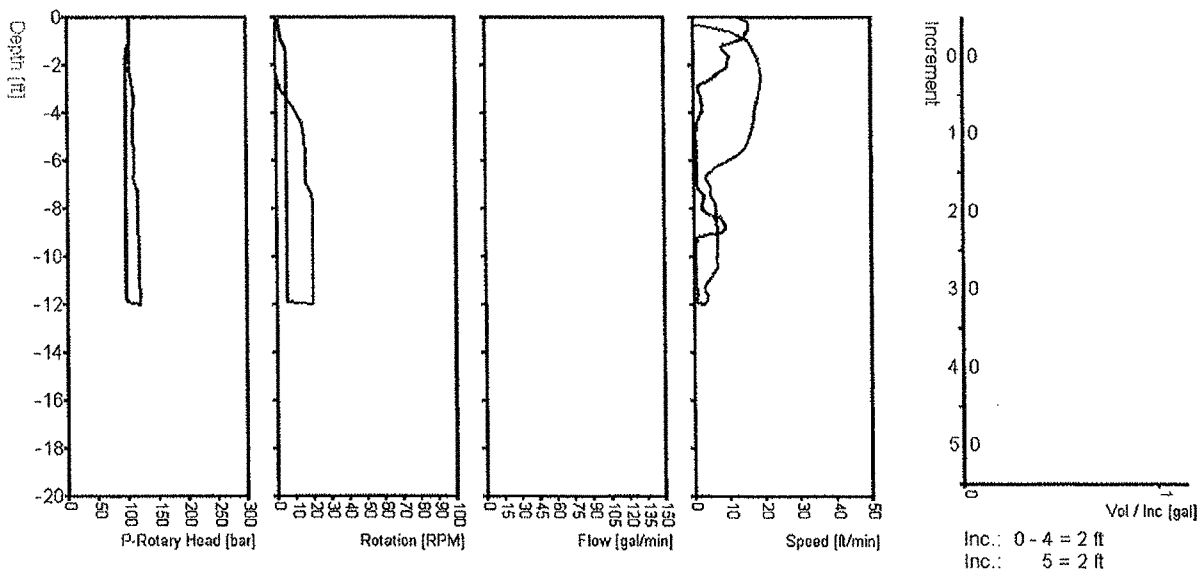
## Data for Pile No: J19

Date: 6/15/2009  
Starttime: 3:08:33 PM  
Endtime: 3:21:32 PM  
Totaltime: 00:12:59  
Pausetime: 00:00:00  
Pilelength: 12 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing / Predrilling for Test



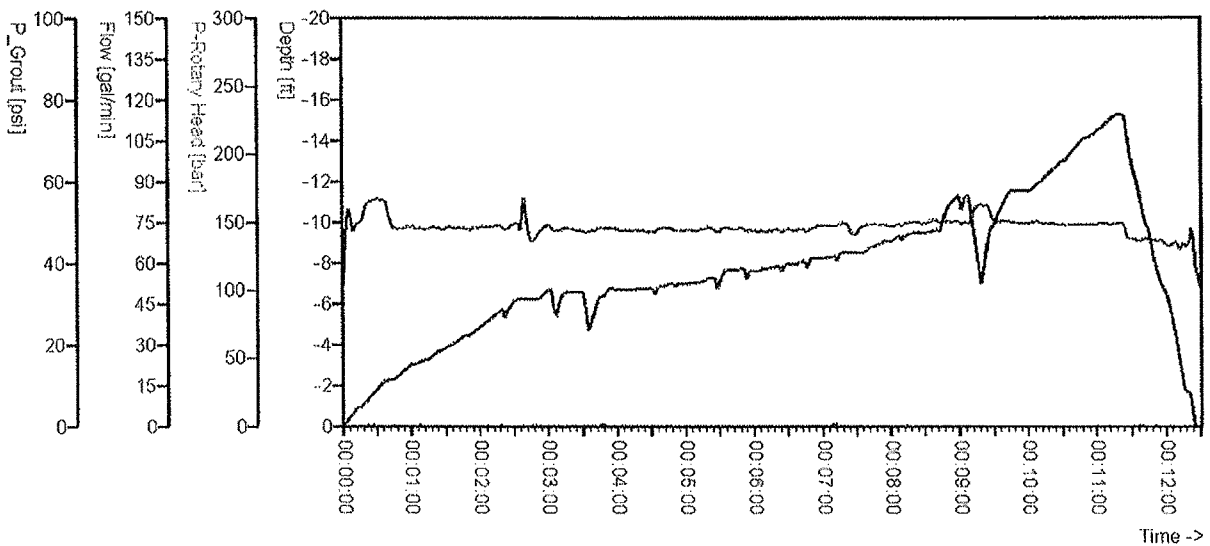
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

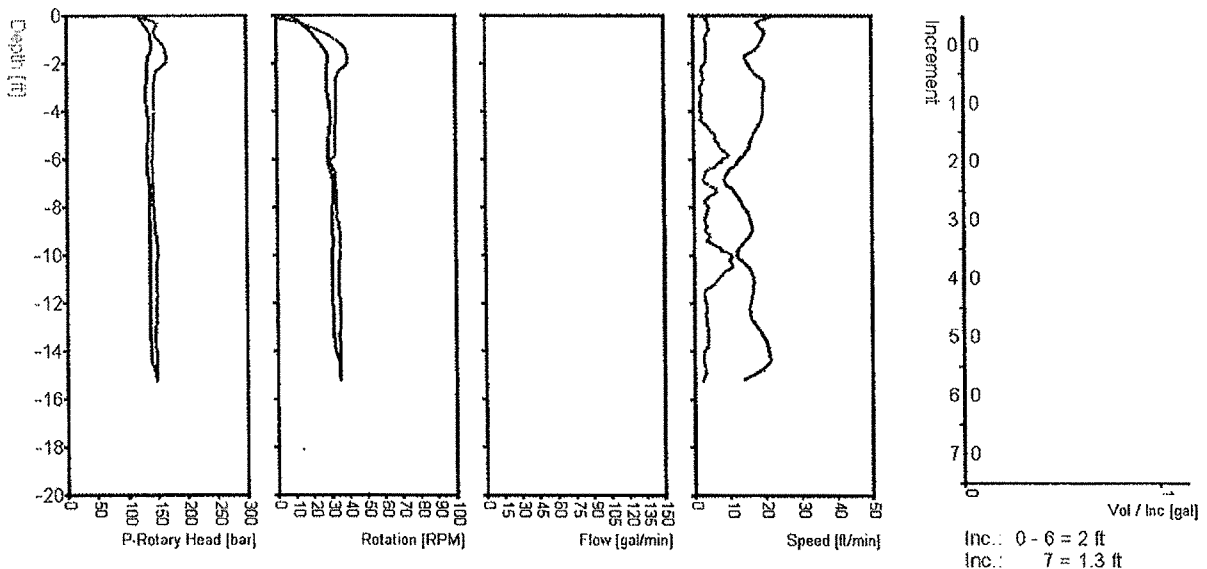
## Data for Pile No: Pp14 / 514

Date: 6/15/2009  
Starttime: 1:02:18 PM  
Endtime: 1:14:47 PM  
Totaltime: 00:12:29  
Pausetime: 00:00:00  
Pilelength: 15.3 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / 0°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing



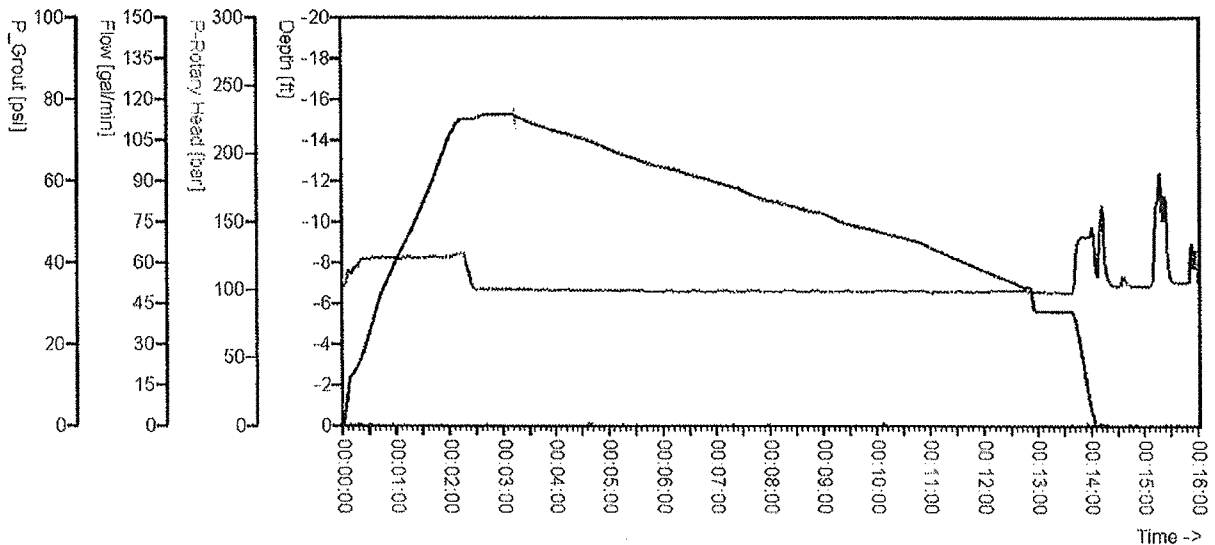
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

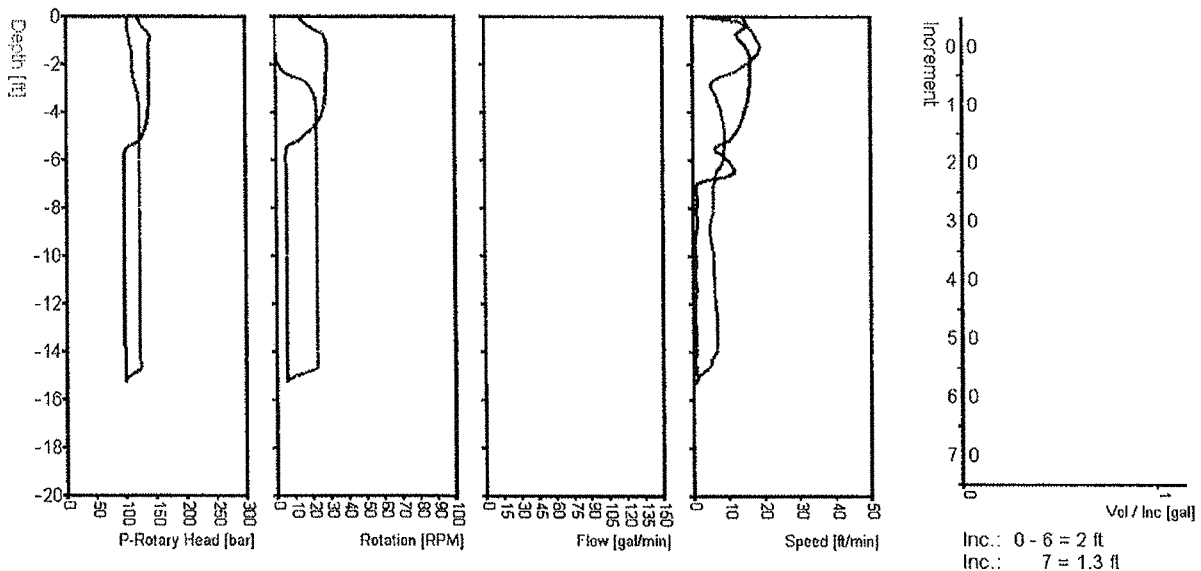
## Data for Pile No: S14

Date: 6/15/2009  
Starttime: 4:02:36 PM  
Endtime: 4:18:36 PM  
Totaltime: 00:16:00  
Pausetime: 00:00:00  
Pilelength: 15.3 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.2° / 0.1°

## Timediagram



## Depthdiagram



GEO-SOLUTIONS INC.

Little Falls, NY

1.25 W/C Ratio

Water 390 Kilos

Cement 211 Kilos

Slag 91 Kilos

Bentonite 11 Kilos

Batch Plant Form

Date: 6/16/2009

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	11:50	89				Type #1	# 1	# 2
5	12:05	89				Date		
10	12:25	89				Tons		
15	12:39	89						
20	12:55	89						
25	1:10	89				Slag	# 1	# 2
30						Date		
35						Tons		
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110						Total	28	

GEO-SOLUTIONS INC.

~~P-746~~  
~~Bogalusa, LS~~

Jet Grout Form

PARAMETERS = Pressure 400 Bar (6000 psi.)  
Flow 255 l/min 68 GPM  
Lift 2 FPM  
Rotation 20-24 RPM  
Air 185 CFM

Date:

6-16-09

Column #	Station	Time Start	Time Complete	Total Depth	Grout Zone			Comments
518	253.6	5:26	5:40	1.14				
	Grout	2:09	12:45	1.5				
519	253.6	5:40	5:54	1.14				
	Grout							
520	253.6	5:54	6:08	1.14				
	Grout							
521	253.6	6:08	6:22	1.14				
	Grout							
522	253.6	6:22	6:36	1.14				
	Grout							
523	253.6	6:36	6:50	1.14				
	Grout							
524	253.6	6:50	7:04	1.14				
	Grout							
525	253.6	7:04	7:18	1.14				
	Grout							
526	253.6	7:18	7:32	1.14				
	Grout							
527	253.6	7:32	7:46	1.14				
	Grout							
528	253.6	7:46	8:00	1.14				
	Grout							
529	253.6	8:00	8:14	1.14				
	Grout							
530	253.6	8:14	8:28	1.14				
	Grout							
531	253.6	8:28	8:42	1.14				
	Grout							
532	253.6	8:42	8:56	1.14				
	Grout							
533	253.6	8:56	9:10	1.14				
	Grout							
534	253.6	9:10	9:24	1.14				
	Grout							
535	253.6	9:24	9:38	1.14				
	Grout							
536	253.6	9:38	9:52	1.14				
	Grout							
537	253.6	9:52	10:06	1.14				
	Grout							
538	253.6	10:06	10:20	1.14				
	Grout							
539	253.6	10:20	10:34	1.14				
	Grout							
540	253.6	10:34	10:48	1.14				
	Grout							
541	253.6	10:48	11:02	1.14				
	Grout							
542	253.6	11:02	11:16	1.14				
	Grout							
543	253.6	11:16	11:30	1.14				
	Grout							
544	253.6	11:30	11:44	1.14				
	Grout							
545	253.6	11:44	11:58	1.14				
	Grout							
546	253.6	11:58	12:12	1.14				
	Grout							
547	253.6	12:12	12:26	1.14				
	Grout							
548	253.6	12:26	12:40	1.14				
	Grout							
549	253.6	12:40	12:54	1.14				
	Grout							
550	253.6	12:54	1:08	1.14				
	Grout							
551	253.6	1:08	1:22	1.14				
	Grout							
552	253.6	1:22	1:36	1.14				
	Grout							
553	253.6	1:36	1:50	1.14				
	Grout							
554	253.6	1:50	2:04	1.14				
	Grout							
555	253.6	2:04	2:18	1.14				
	Grout							
556	253.6	2:18	2:32	1.14				
	Grout							
557	253.6	2:32	2:46	1.14				
	Grout							
558	253.6	2:46	3:00	1.14				
	Grout							
559	253.6	3:00	3:14	1.14				
	Grout							
560	253.6	3:14	3:28	1.14				
	Grout							
561	253.6	3:28	3:42	1.14				
	Grout							
562	253.6	3:42	3:56	1.14				
	Grout							
563	253.6	3:56	4:10	1.14				
	Grout							
564	253.6	4:10	4:24	1.14				
	Grout							
565	253.6	4:24	4:38	1.14				
	Grout							
566	253.6	4:38	4:52	1.14				
	Grout							
567	253.6	4:52	5:06	1.14				
	Grout							
568	253.6	5:06	5:20	1.14				
	Grout							
569	253.6	5:20	5:34	1.14				
	Grout							
570	253.6	5:34	5:48	1.14				
	Grout							
571	253.6	5:48	6:02	1.14				
	Grout							
572	253.6	6:02	6:16	1.14				
	Grout							
573	253.6	6:16	6:30	1.14				
	Grout							
574	253.6	6:30	6:44	1.14				
	Grout							
575	253.6	6:44	6:58	1.14				
	Grout							
576	253.6	6:58	7:12	1.14				
	Grout							
577	253.6	7:12	7:26	1.14				
	Grout							
578	253.6	7:26	7:40	1.14				
	Grout							
579	253.6	7:40	7:54	1.14				
	Grout							
580	253.6	7:54	8:08	1.14				
	Grout							
581	253.6	8:08	8:22	1.14				
	Grout							
582	253.6	8:22	8:36	1.14				
	Grout							
583	253.6	8:36	8:50	1.14				
	Grout							
584	253.6	8:50	9:04	1.14				
	Grout							
585	253.6	9:04	9:18	1.14				
	Grout							
586	253.6	9:18	9:32	1.14				
	Grout							
587	253.6	9:32	9:46	1.14				
	Grout							
588	253.6	9:46	10:00	1.14				
	Grout							
589	253.6	10:00	10:14	1.14				
	Grout							
590	253.6	10:14	10:28	1.14				
	Grout							
591	253.6	10:28	10:42	1.14				
	Grout							
592	253.6	10:42	10:56	1.14				
	Grout							
593	253.6	10:56	11:10	1.14				
	Grout							
594	253.6	11:10	11:24	1.14				
	Grout							
595	253.6	11:24	11:38	1.14				
	Grout							
596	253.6	11:38	11:52	1.14				
	Grout							
597	253.6	11:52	12:06	1.14				
	Grout							
598	253.6	12:06	12:20	1.14				
	Grout							
599	253.6	12:20	12:34	1.14				
	Grout							
600	253.6	12:34	12:48	1.14				
	Grout							

# Geo Solutions Soil Mixing

*predrilling  
for Jet Grout*



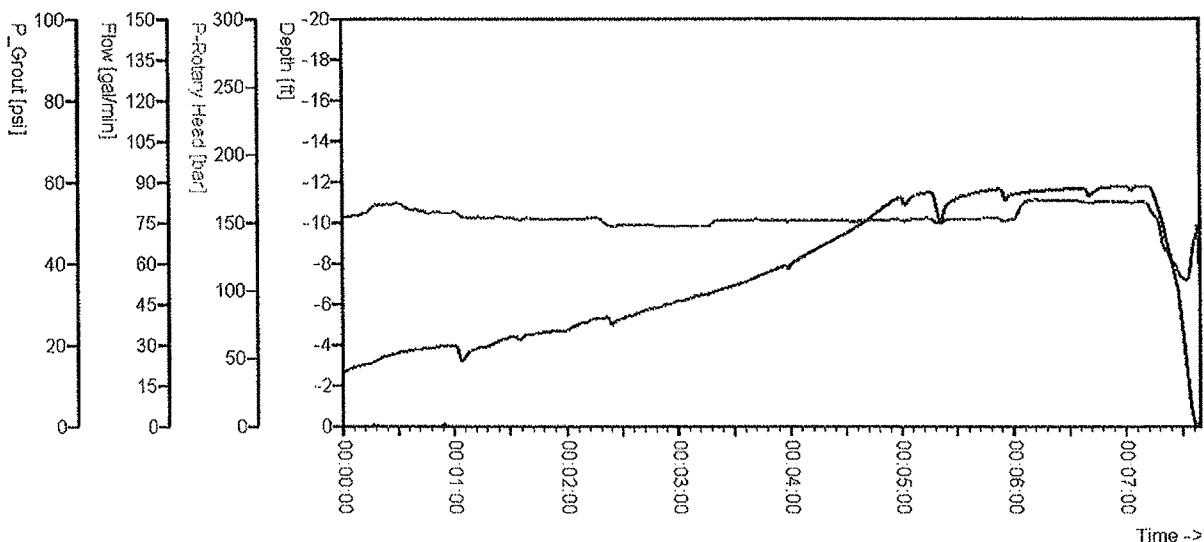
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

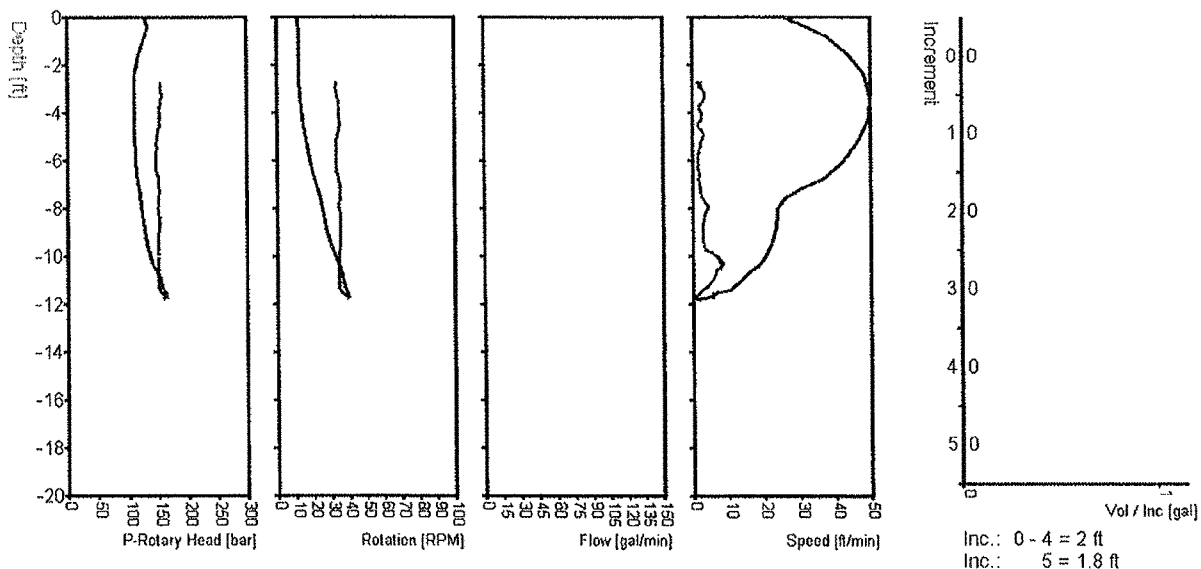
## Data for Pile No: P17

Date: 6/16/2009  
Starttime: 9:54:00 AM  
Endtime: 10:01:38 AM  
Totaltime: 00:07:38  
Pausetime: 00:00:00  
Pilelength: 11.8 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.2° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Jet  
Grouting*



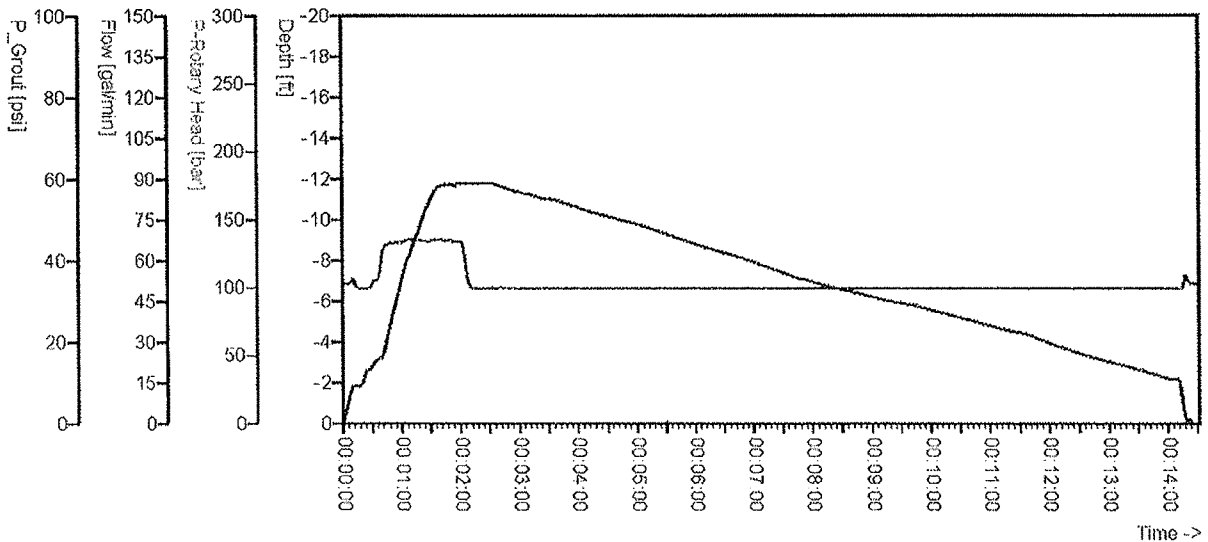
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

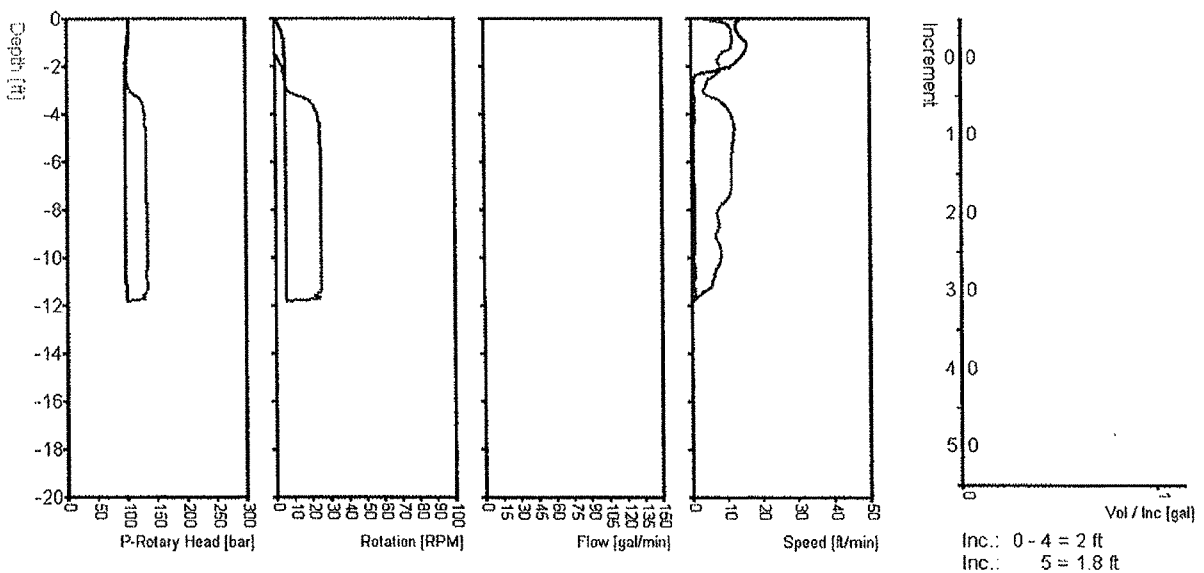
## Data for Pile No: J17

Date: 6/16/2009  
Starttime: 12:27:46 PM  
Endtime: 12:42:16 PM  
Totaltime: 00:14:30  
Pausetime: 00:00:00  
Pilelength: 11.8 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / 0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Pre drilling  
for Jet Grouting*



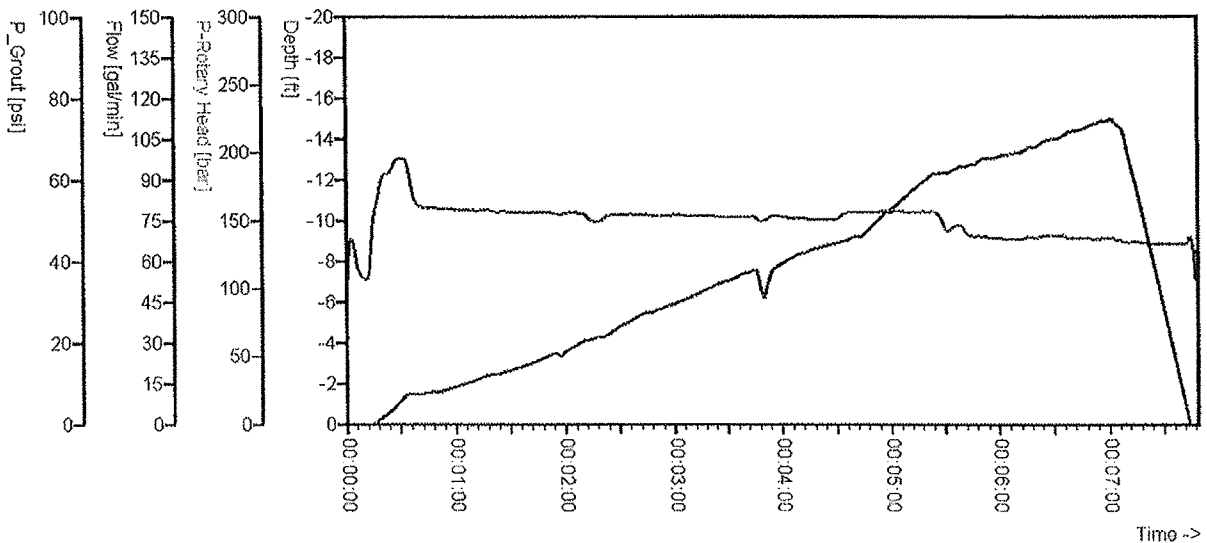
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

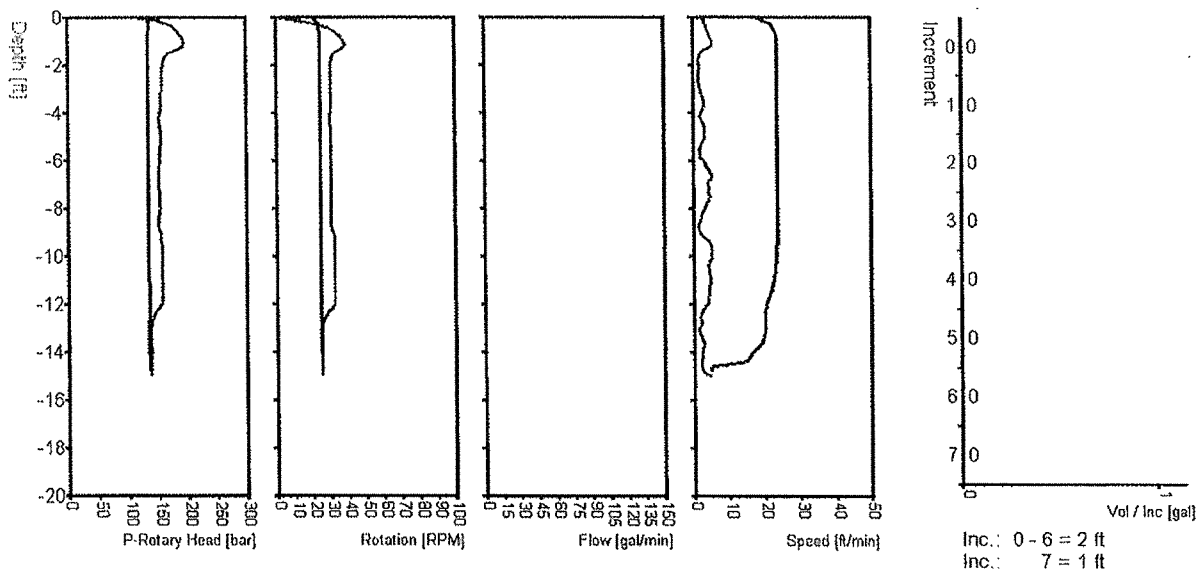
## Data for Pile No: P18

Date: 6/16/2009  
Starttime: 9:32:43 AM  
Endtime: 9:40:31 AM  
Totaltime: 00:07:48  
Pausetime: 00:00:00  
Pilelength: 15 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / -0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing

*Jet Grouting*



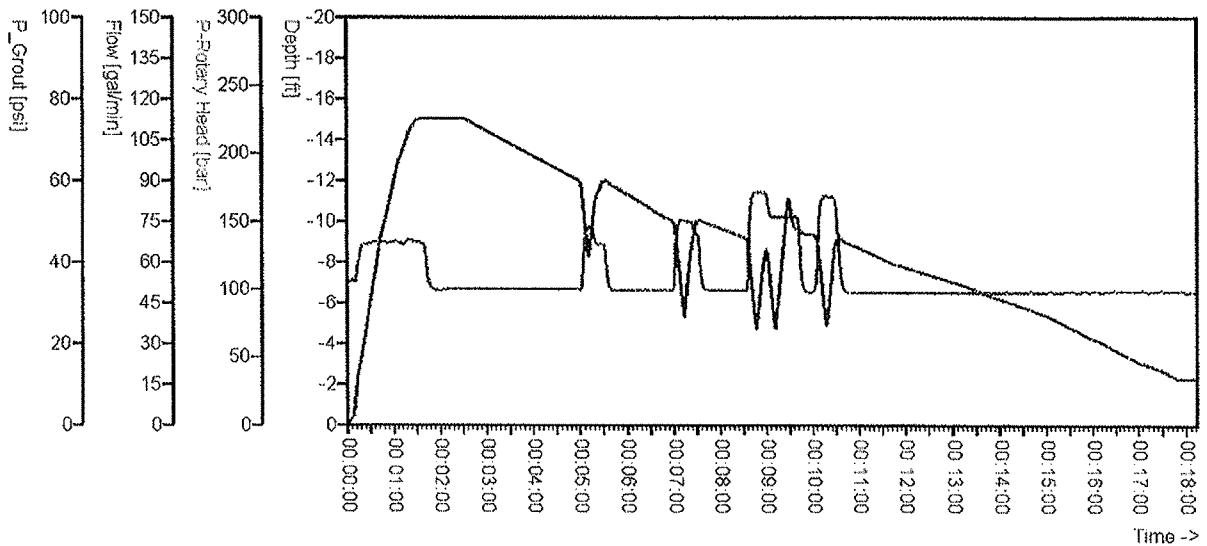
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

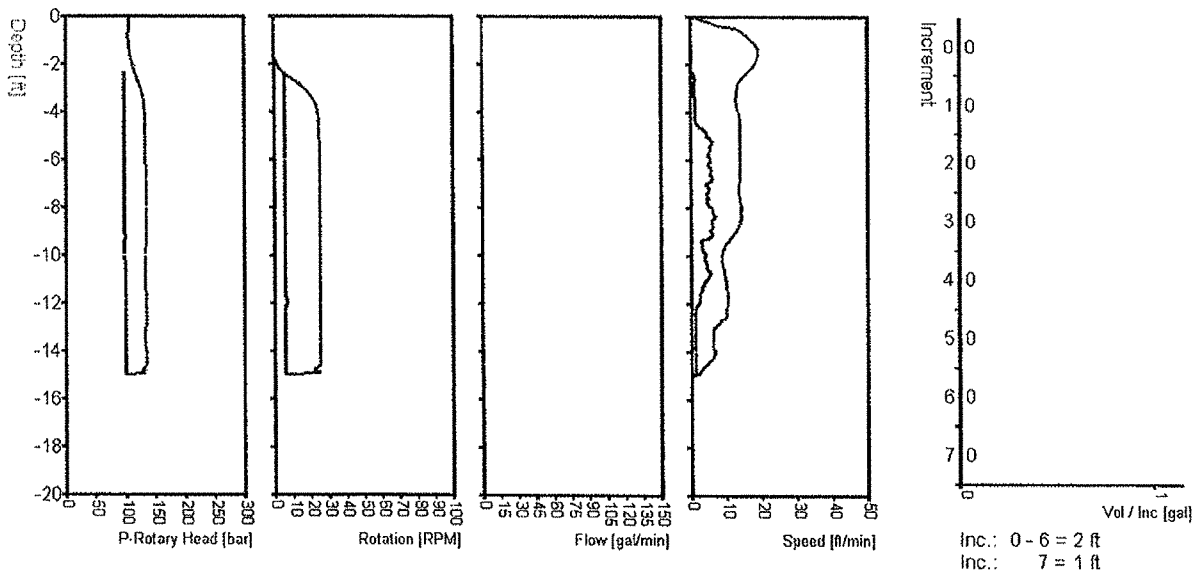
## Data for Pile No: J18

Date: 6/16/2009  
Starttime: 12:06:43 PM  
Endtime: 12:24:54 PM  
Totaltime: 00:18:11  
Pausetime: 00:00:00  
Pilelength: 15 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Predrilling for  
Test Quantity*



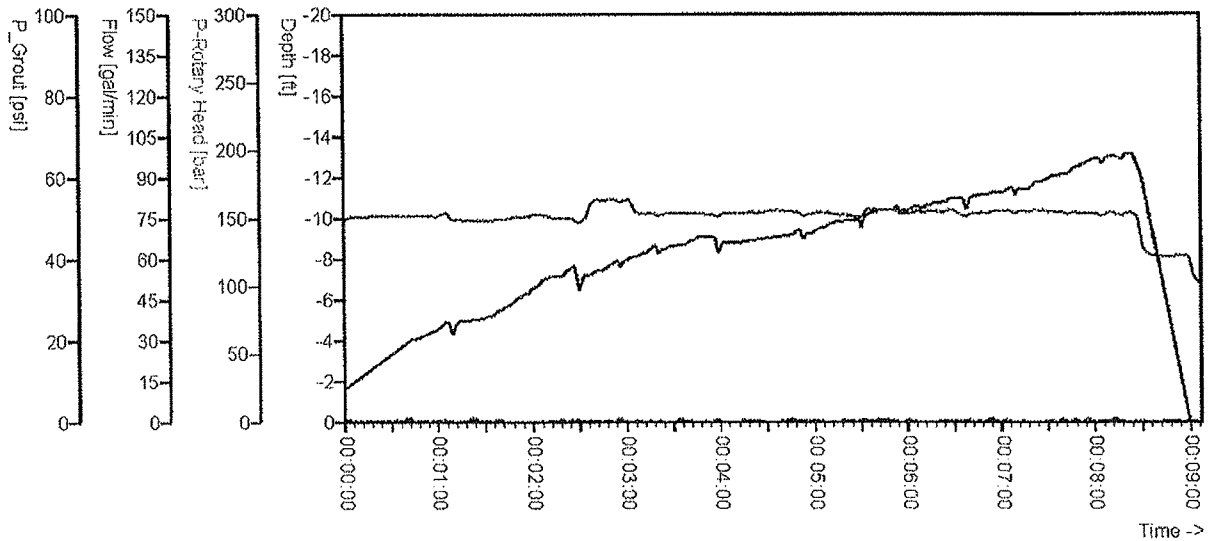
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

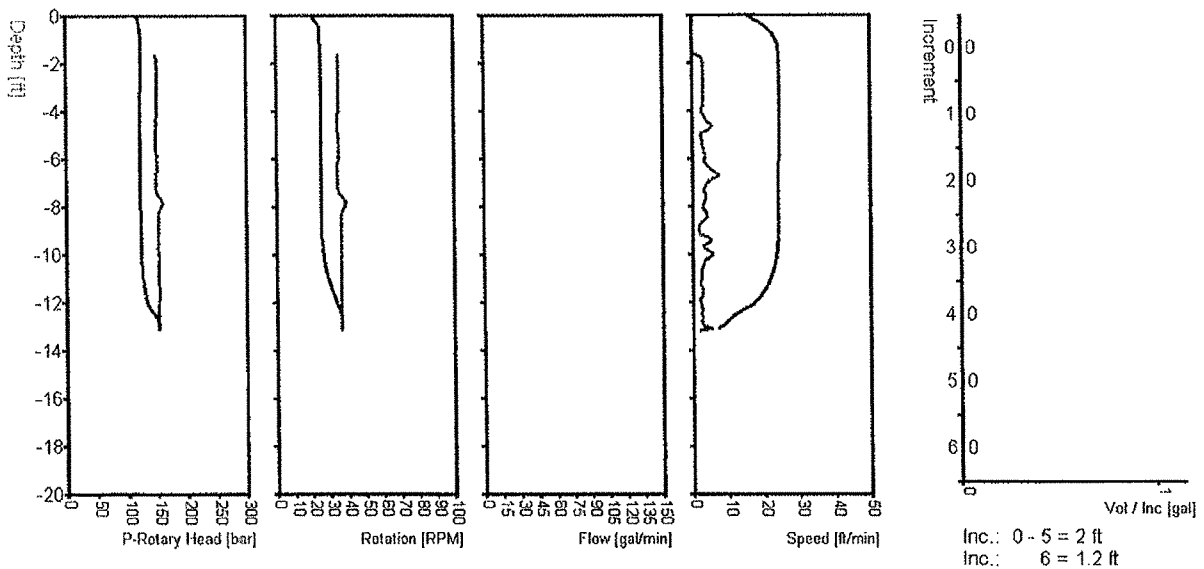
## Data for Pile No: P2

Date: 6/16/2009  
Starttime: 10:40:54 AM  
Endtime: 10:50:00 AM  
Totaltime: 00:09:06  
Pausetime: 00:00:00  
Pilelength: 13.2 ft  
Work pad elevation: 353.7 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

Jet  
Grouting



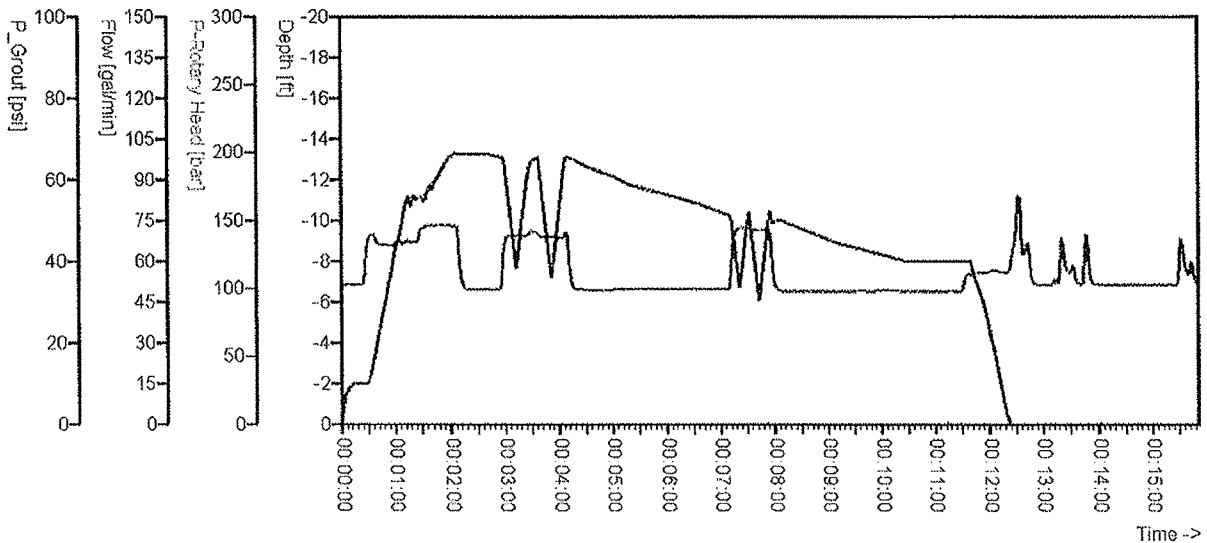
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

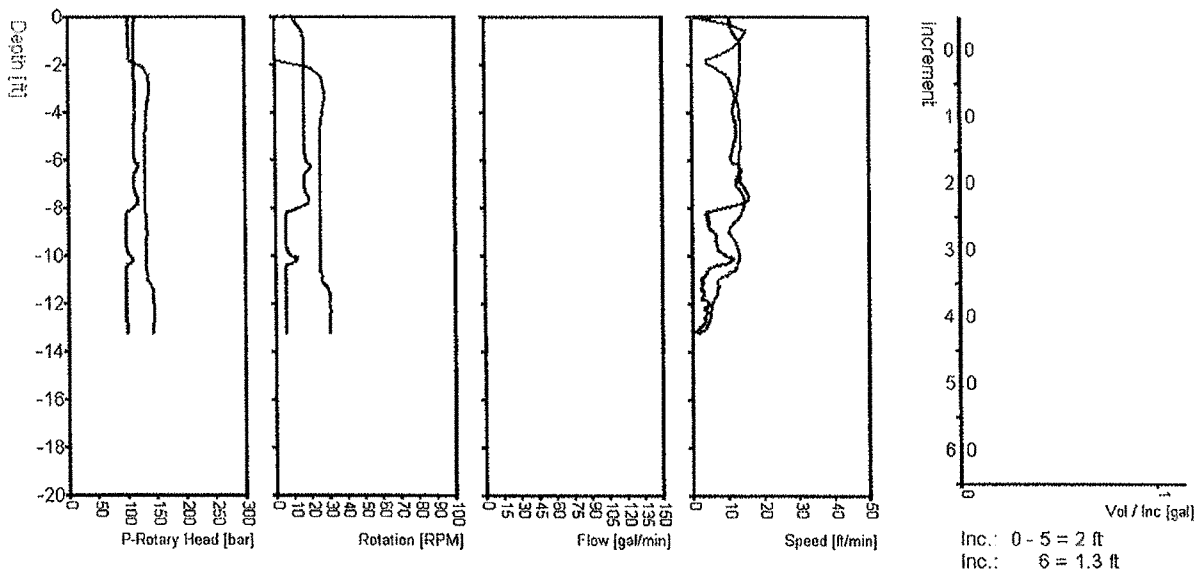
## Data for File No: S2

Date: 6/16/2009  
Starttime: 1:06:35 PM  
Endtime: 1:22:24 PM  
Totaltime: 00:15:49  
Pausetime: 00:00:00  
Pilelength: 13.3 ft  
Work pad elevation: 353.7 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / 0°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Pre-mixing  
for Jet Grouting*



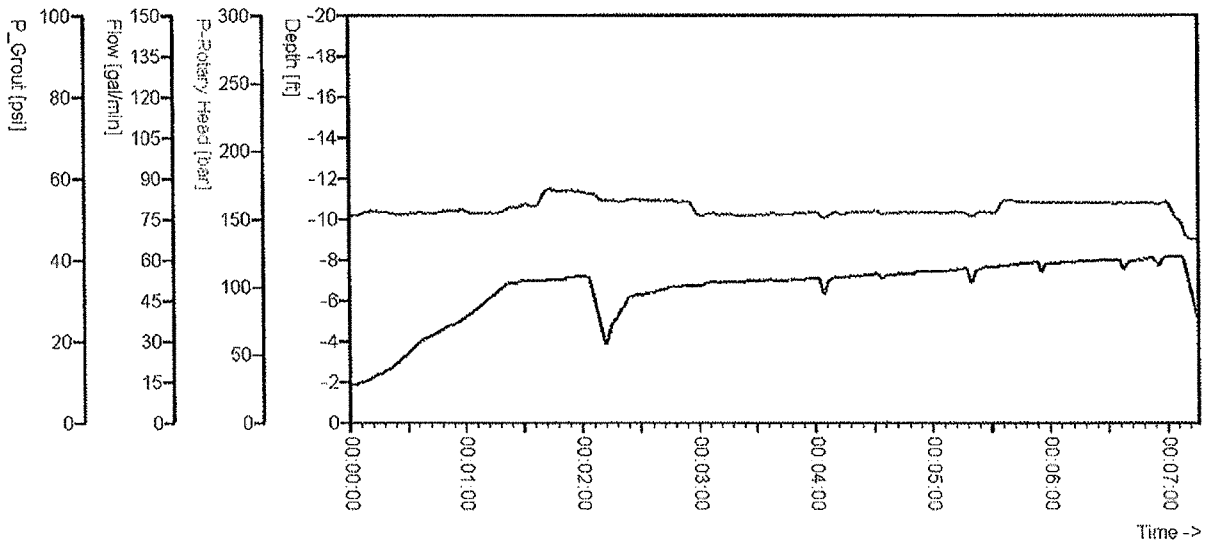
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

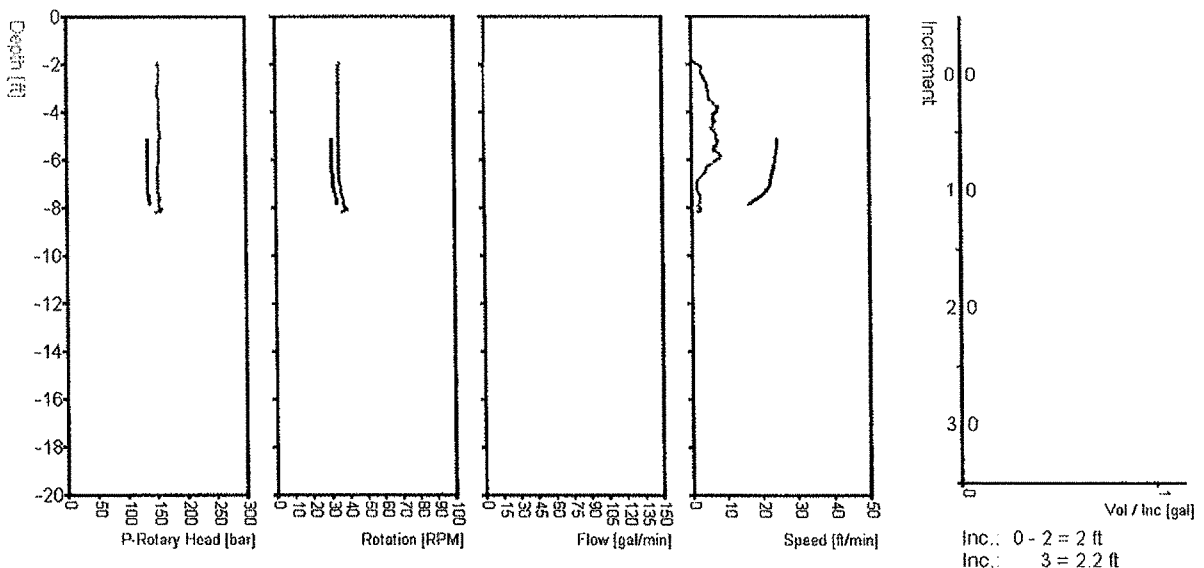
## Data for Pile No: P3

Date: 6/16/2009  
Starttime: 10:28:45 AM  
Endtime: 10:36:00 AM  
Totaltime: 00:07:15  
Pausetime: 00:00:00  
Pilelength: 8.2 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / -0.4°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Predrilling  
for Jet Grouting*



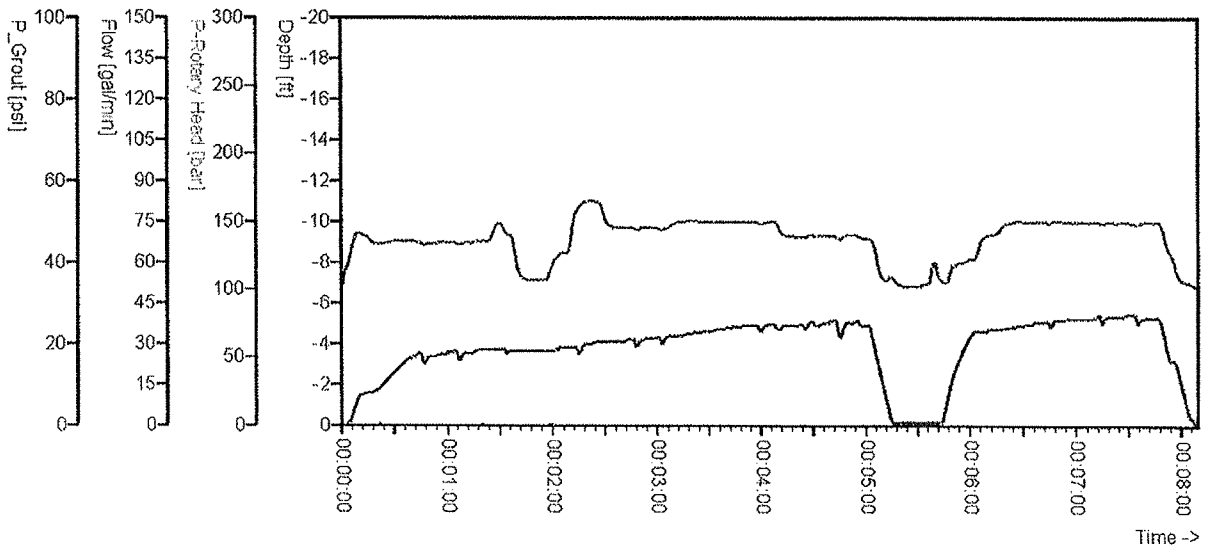
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

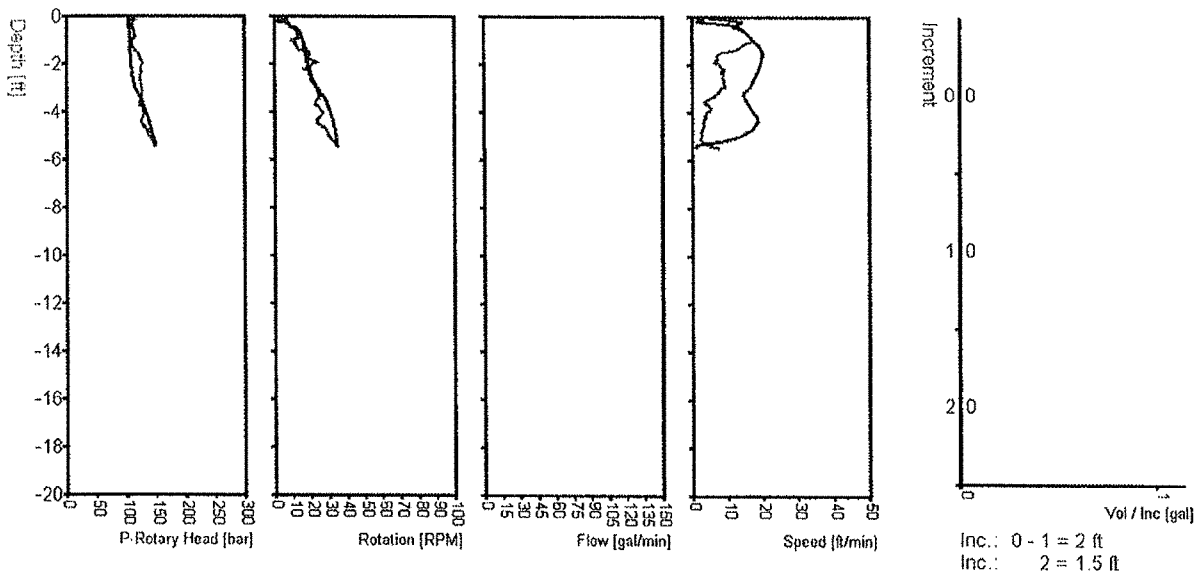
## Data for Pile No: P4

Date: 6/16/2009  
Starttime: 10:55:34 AM  
Endtime: 11:03:42 AM  
Totaltime: 00:08:08  
Pausetime: 00:00:00  
Pilelength: 5.5 ft  
Work pad elevation: 353.3 ft  
Total Volume: 0 gal  
Strokes: 2  
Inclination (X/Y): 0.2° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Predrilling for  
Jet Grouting*



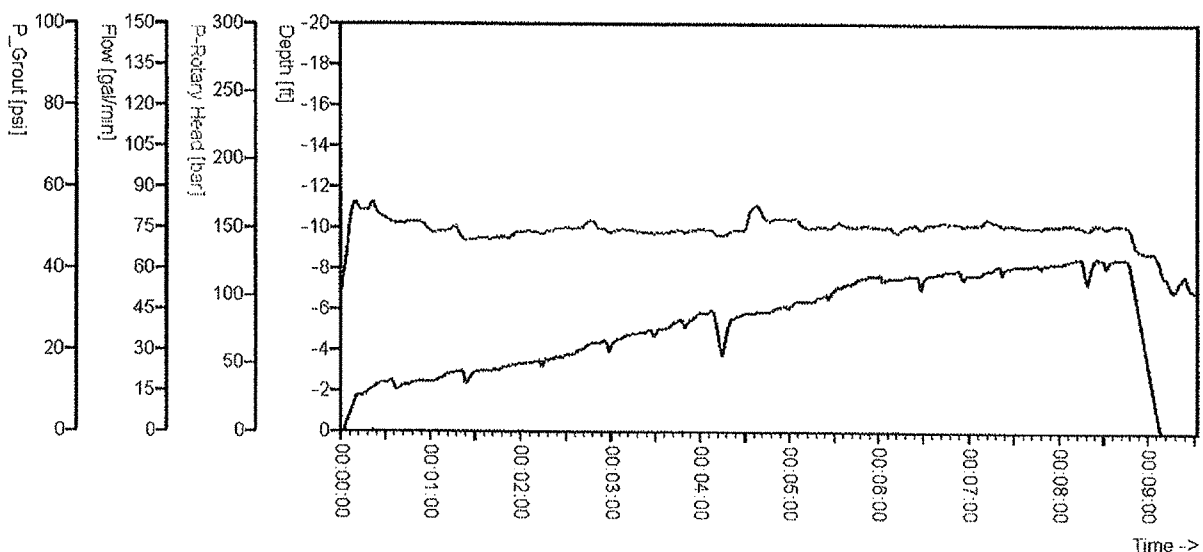
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

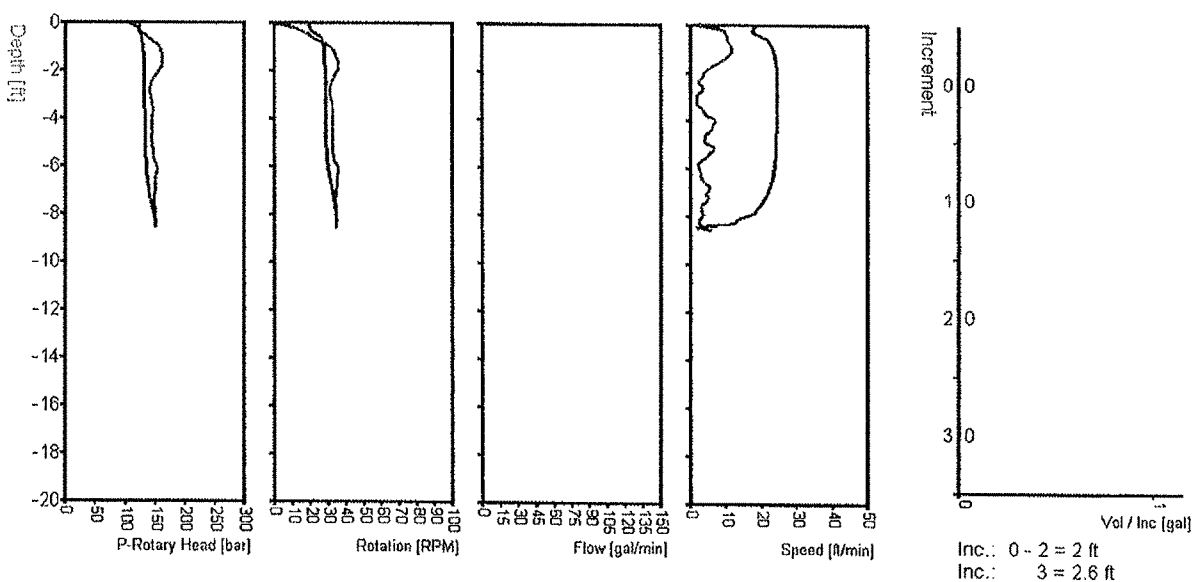
## Data for File No: P7

Date: 6/16/2009  
Starttime: 10:17:19 AM  
Endtime: 10:26:50 AM  
Totaltime: 00:09:31  
Pausetime: 00:00:00  
Pilelength: 8.6 ft  
Work pad elevation: 353.5 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / -0.1°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing

*Predrilling  
for Jet Grouting*



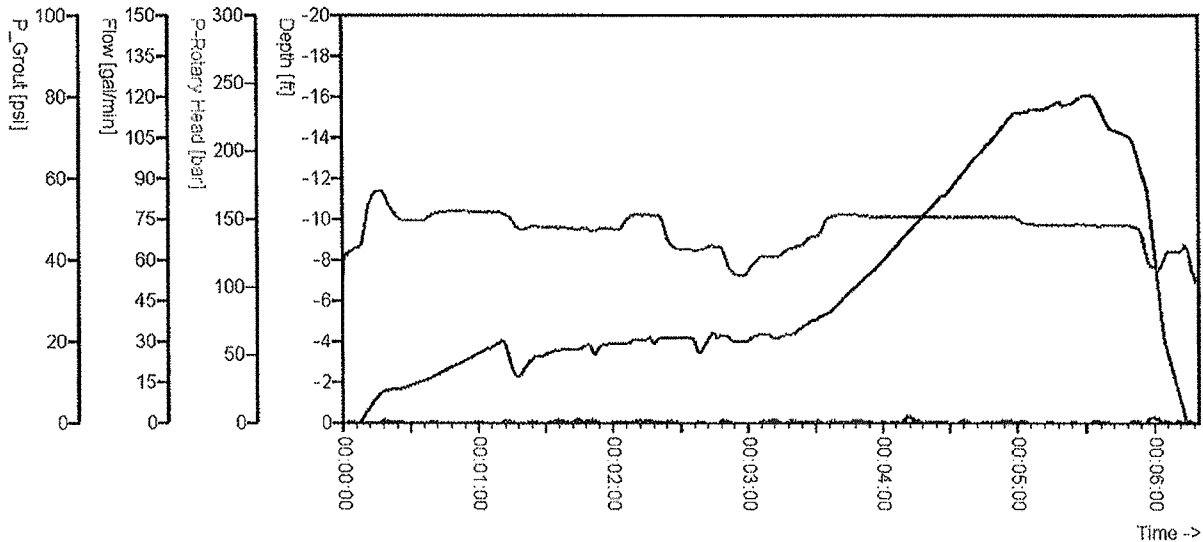
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

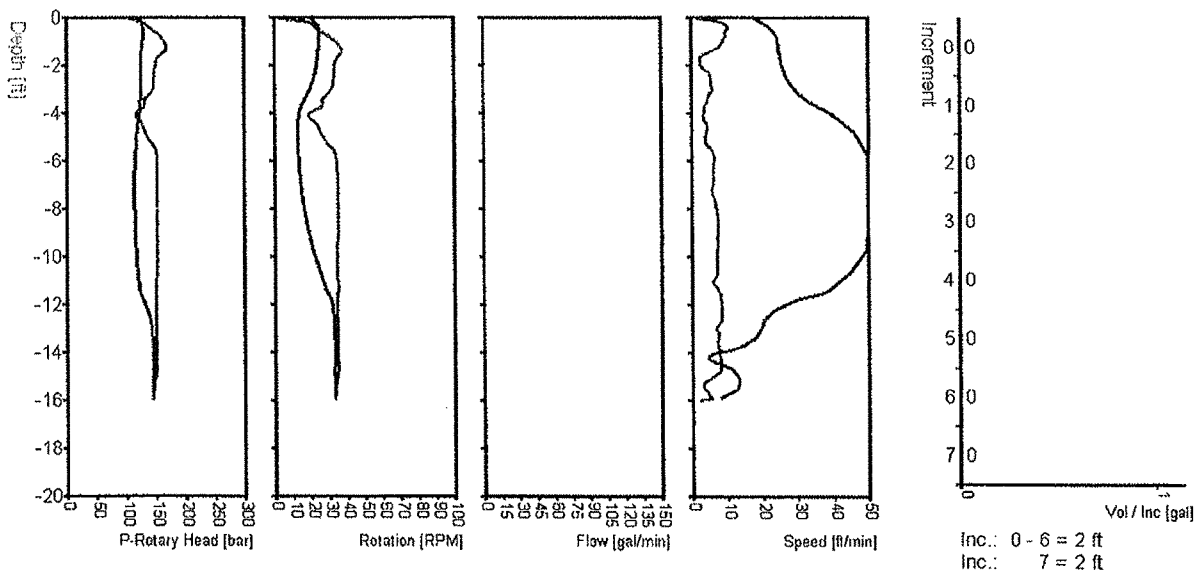
## Data for Pile No: P10

Date: 6/16/2009  
Starttime: 10:08:26 AM  
Endtime: 10:14:44 AM  
Totaltime: 00:06:18  
Pausetime: 00:00:00  
Pilelength: 16 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

Jet  
Grouting



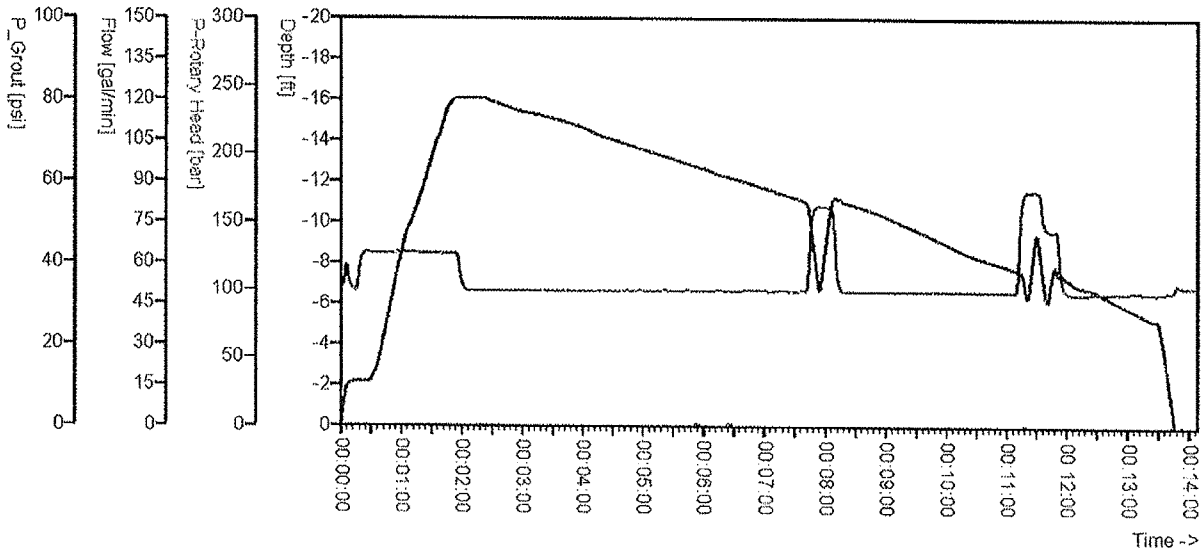
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

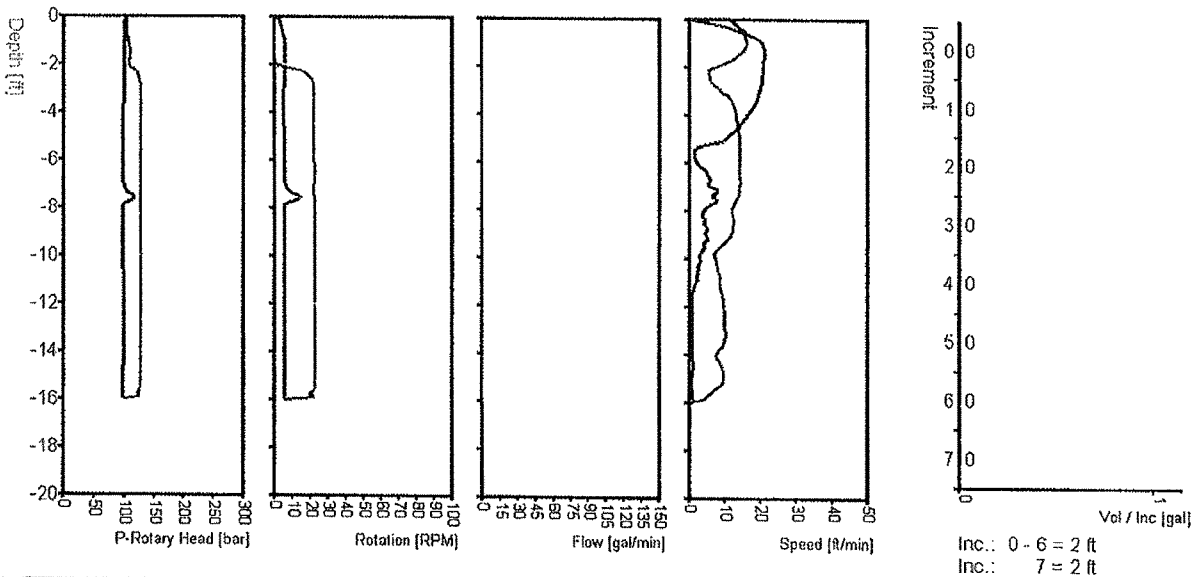
## Data for Pile No: S10

Date: 6/16/2009  
Starttime: 12:47:37 PM  
Endtime: 1:01:43 PM  
Totaltime: 00:14:06  
Pausetime: 00:00:00  
Pilelength: 16 ft  
Work pad elevation: 353.6 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

*Predrilling  
for Jet Grouting*



## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

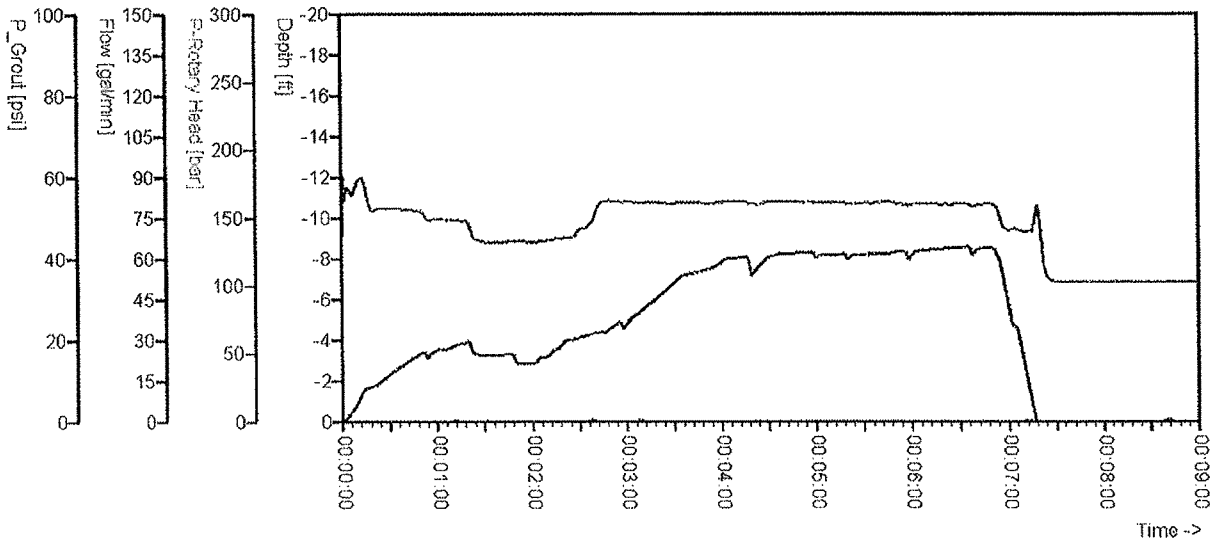
## Data for Pile No: P11

Date: 6/16/2009  
Starttime: 9:42:42 AM  
Endtime: 9:51:41 AM  
Totaltime: 00:08:59  
Pausetime: 00:00:00

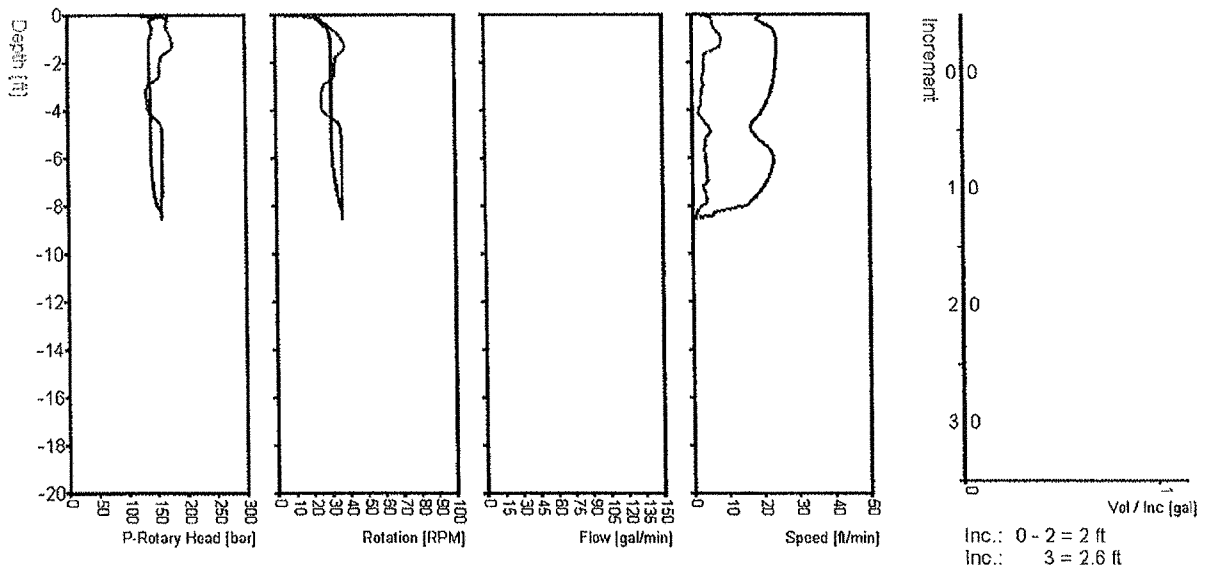
Pilelength: 8.6 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.1° / -0.1°

*Refused*

## Timediagram



## Depthdiagram



GEO-SOLUTIONS INC

Little Falls, NY

1.25 W/C Ratio

Water 390 Kilos  
Cement 211 Kilos  
Slag 91 Kilos  
Bentonite 11 Kilos

Batch Plant Form

Date: 6/18/2009

Batch #	Time Mixed	Density	Viscosity	Temperature	pH			
1	1:40	89				Type	# 1	# 2
5	1:57	89				Date		
10	2:11	89				Tons		
15	2:30	89						
20								
25						Slag	# 1	# 2
30						Date		
35						Tons		
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110						Total	18	

# Geo Solutions Soil Mixing

*Predrilling for  
Jet  
Grouting*



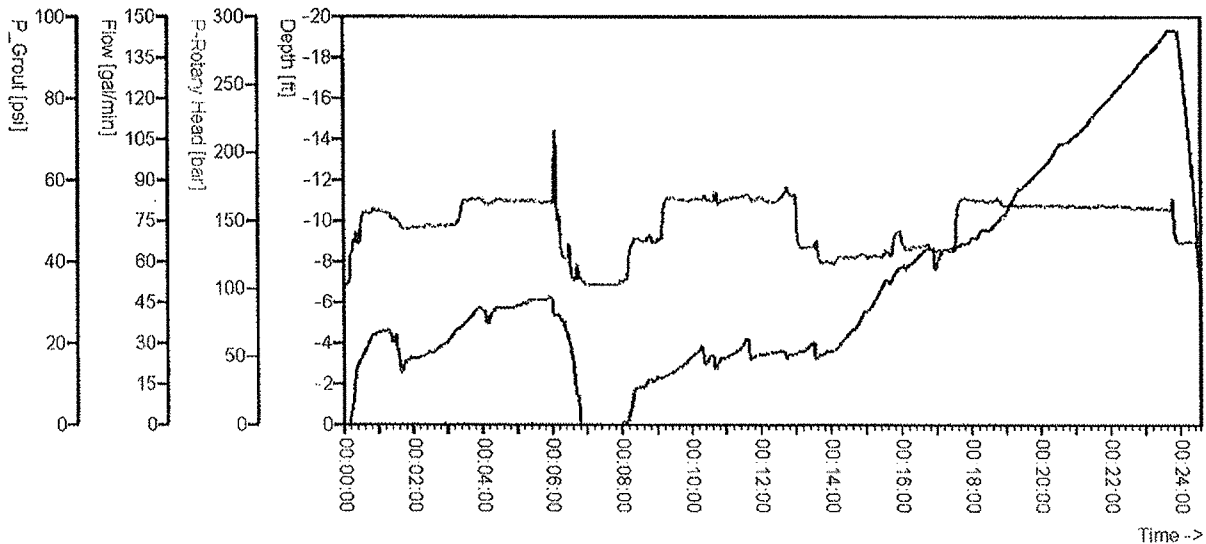
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

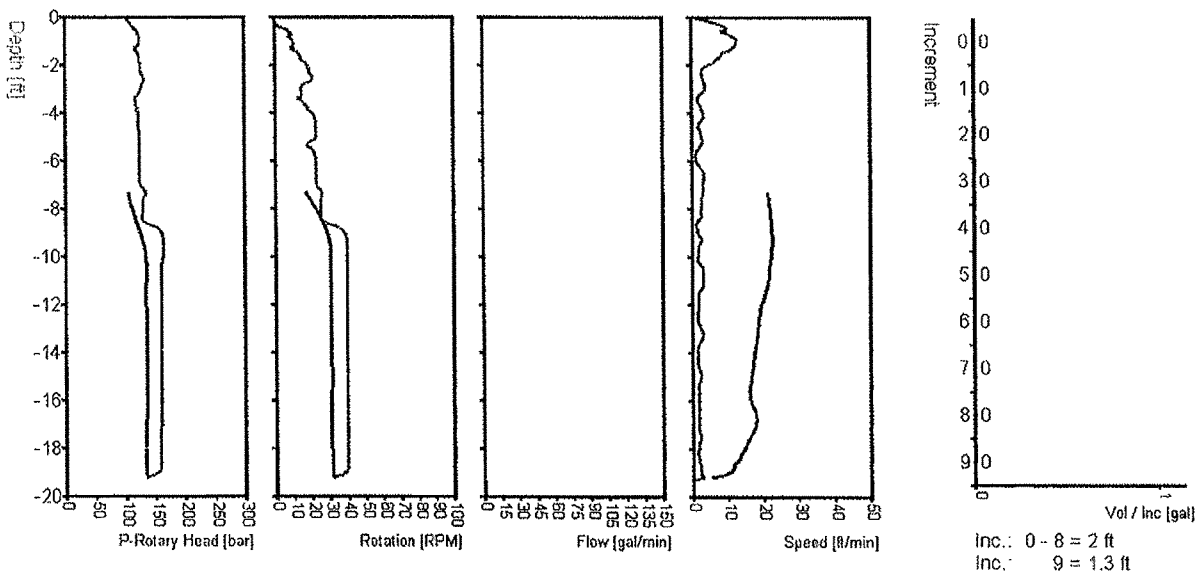
## Data for Pile No: P31

Date: 6/17/2009  
Starttime: 11:56:27 AM  
Endtime: 12:21:00 PM  
Totaltime: 00:24:33  
Pausetime: 00:00:00  
Pilelength: 19.3 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / -0.1°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing / Jet Grouting



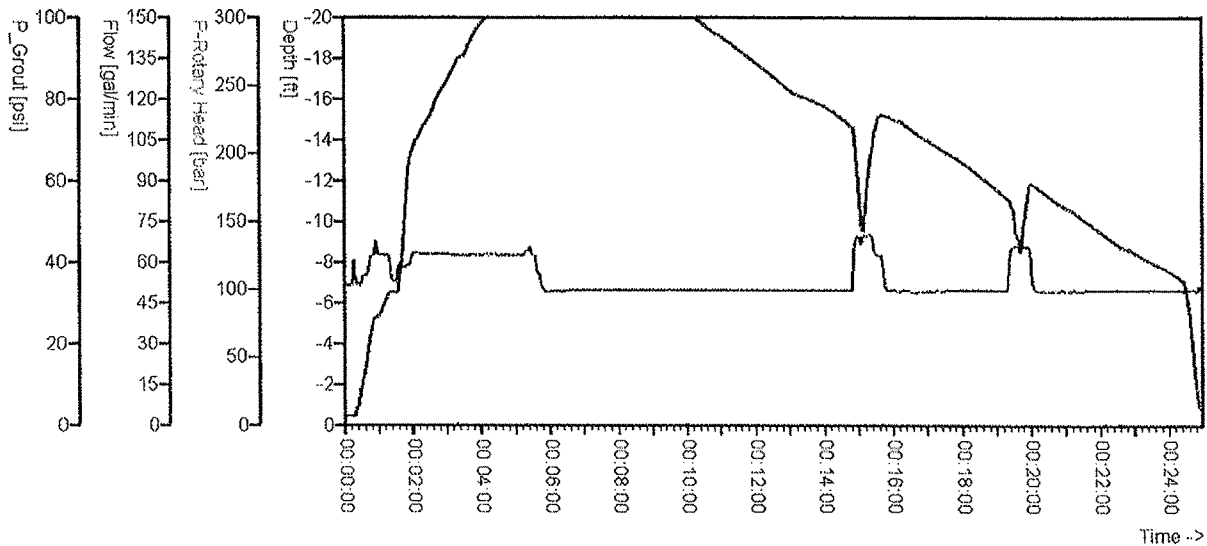
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

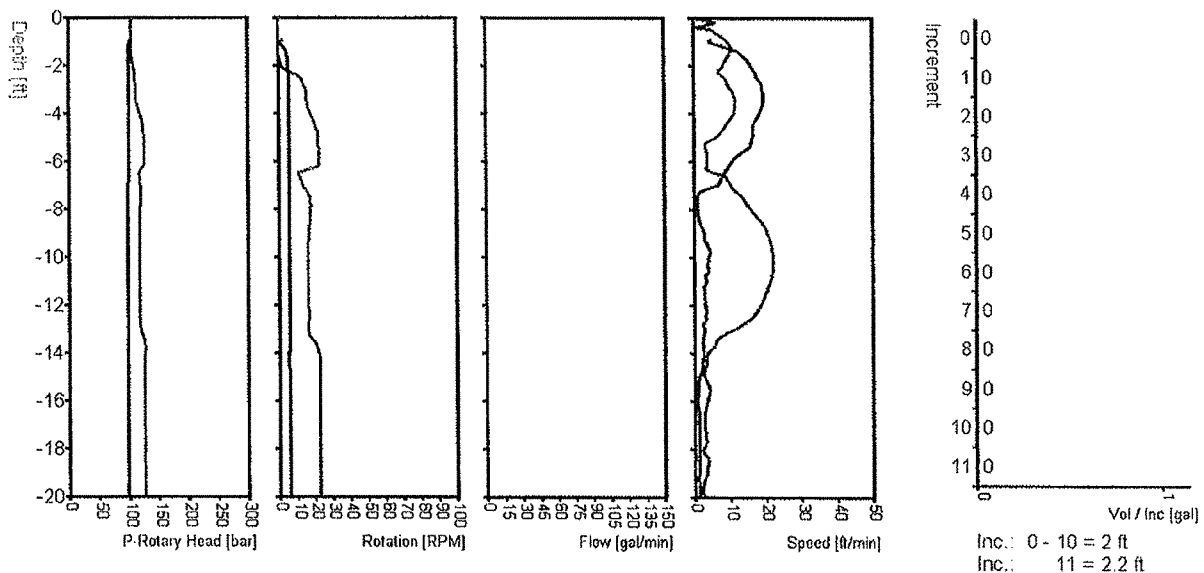
## Data for Pile No: S31

Date: 6/17/2009  
Starttime: 1:55:28 PM  
Endtime: 2:20:23 PM  
Totaltime: 00:24:55  
Pausetime: 00:00:00  
Pilelength: 24.2 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.6° / 0.4°

## Timediagram



## Depthdiagram





# Geo Solutions Soil Mixing

Redrilling for  
Jet  
Grouting



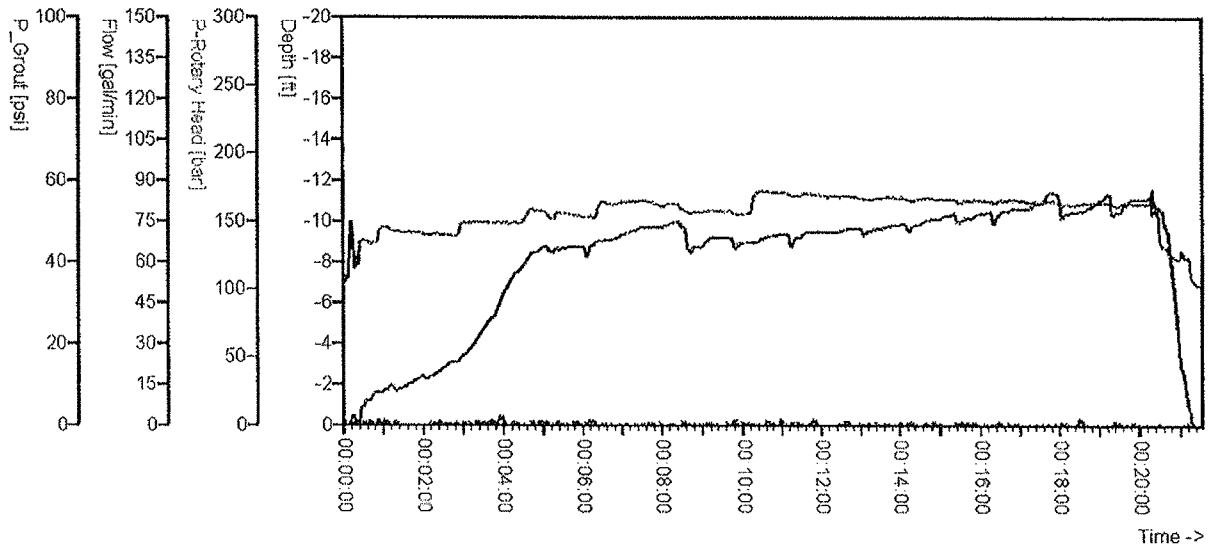
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

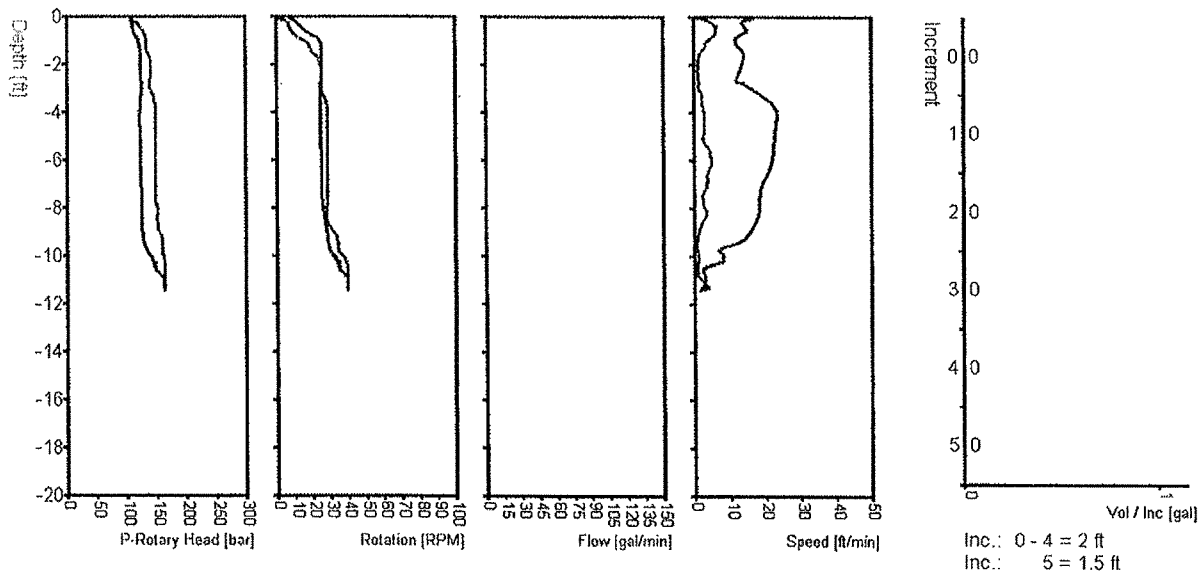
## Data for Pile No: P532

Date: 6/17/2009  
Starttime: 11:28:38 AM  
Endtime: 11:50:09 AM  
Totaltime: 00:21:31  
Pausetime: 00:00:00  
Pilelength: 11.5 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0° / -0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

Jet  
Grouting



## Job Site Data:

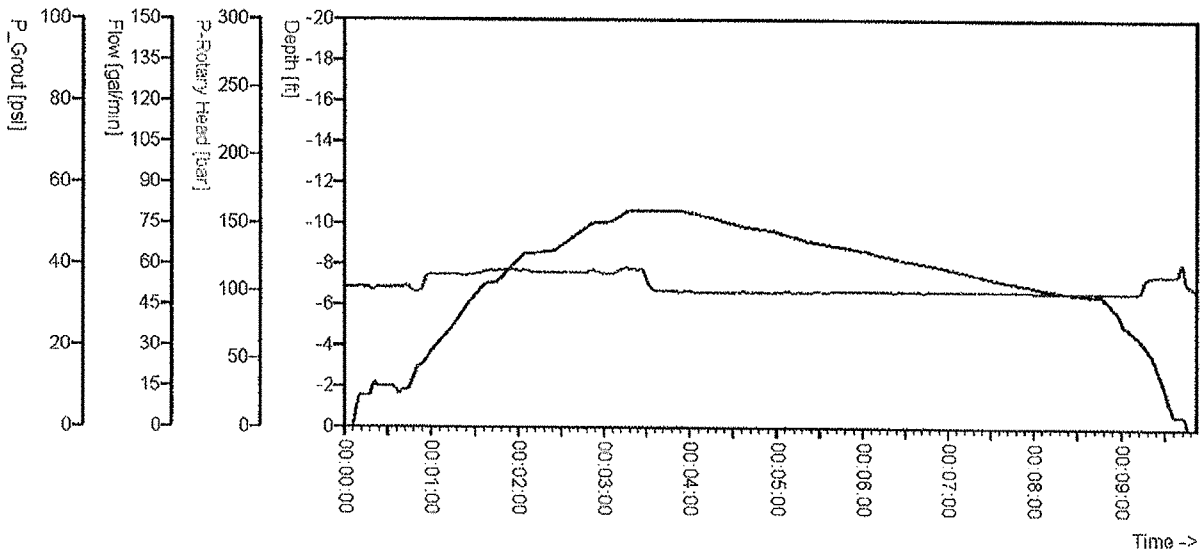
Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

## Data for Pile No: S32

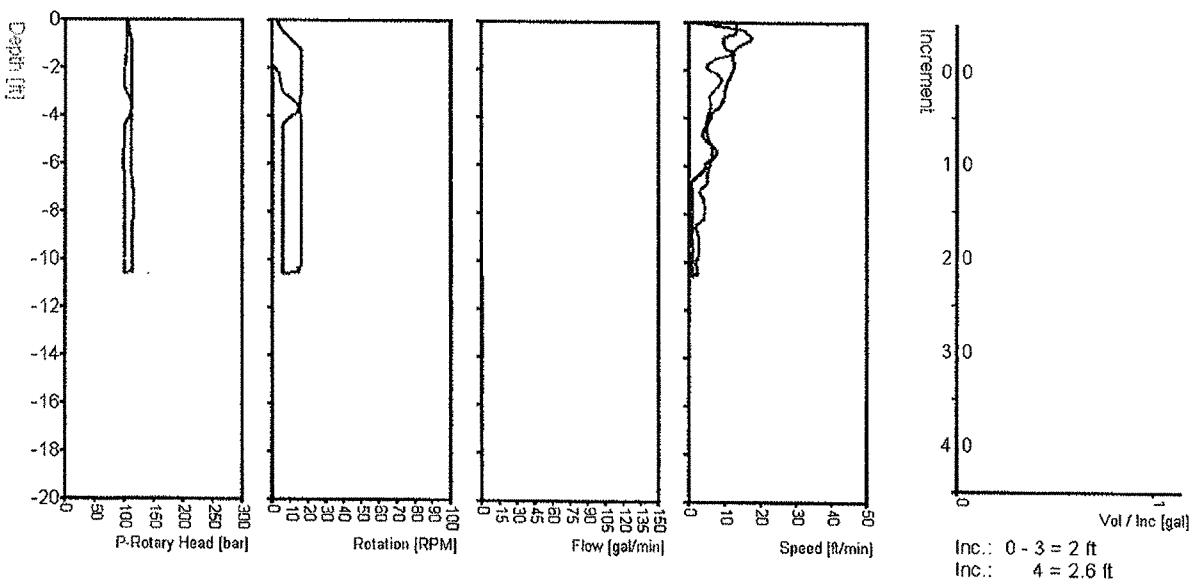
Date: 6/17/2009  
Starttime: 2:25:18 PM  
Endtime: 2:35:08 PM  
Totaltime: 00:09:50  
Pausetime: 00:00:00

Pilelength: 10.6 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): 0.2° / 0.2°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing

Pre-drilling for  
Jet  
Grouting



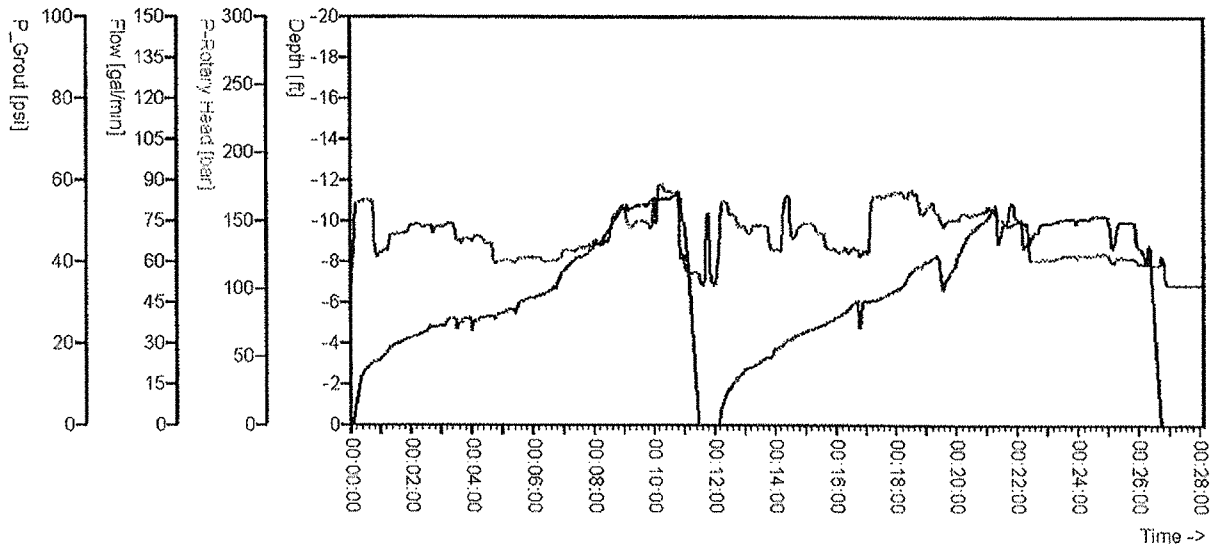
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

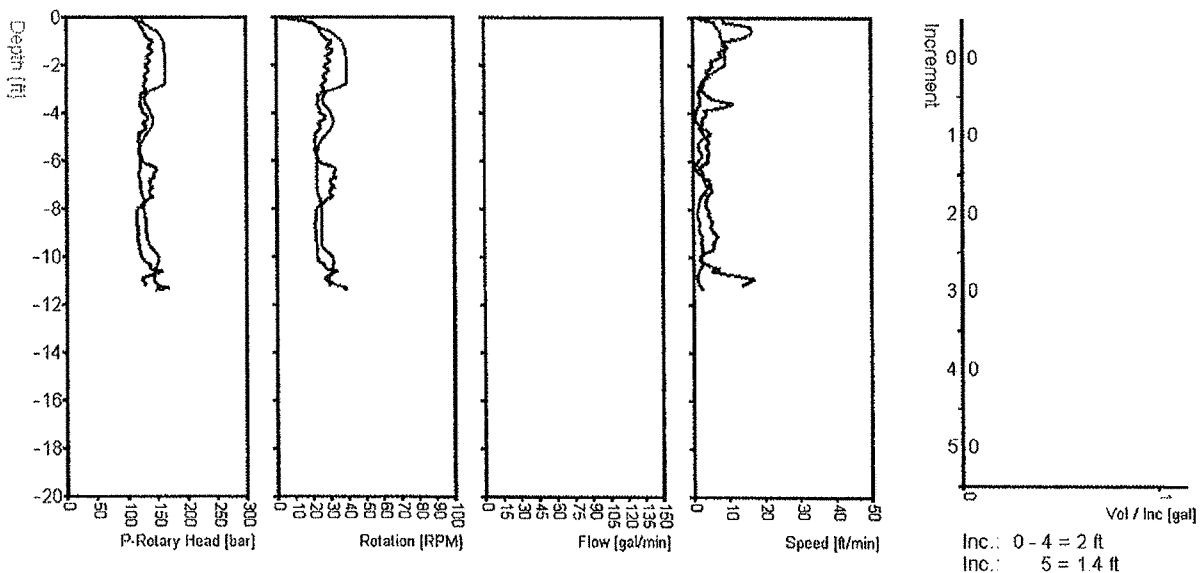
## Data for Pile No: P110

Date: 6/17/2009  
Starttime: 12:25:04 PM  
Endtime: 12:53:09 PM  
Totaltime: 00:28:05  
Pausetime: 00:00:00  
Pilelength: 11.4 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 2  
Inclination (X/Y): -0.3° / -0.6°

## Timediagram



## Depthdiagram



# Geo Solutions Soil Mixing / Jet Grouting



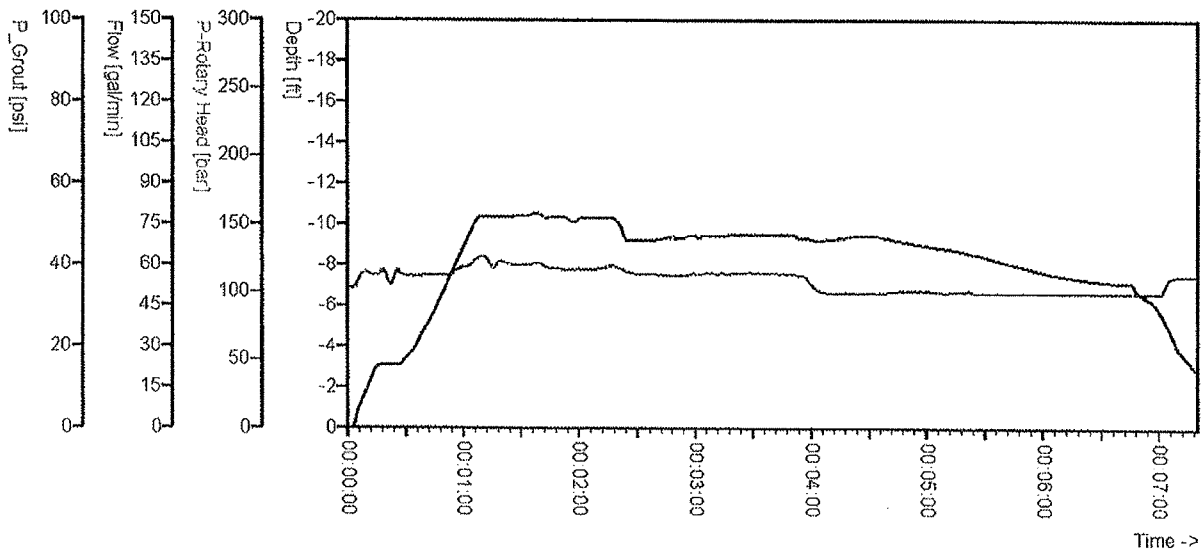
## Job Site Data:

Project name: Feldmeier  
Area: N.Y.  
Client: National Grid  
Contractor: Royal  
Machine: RH 18

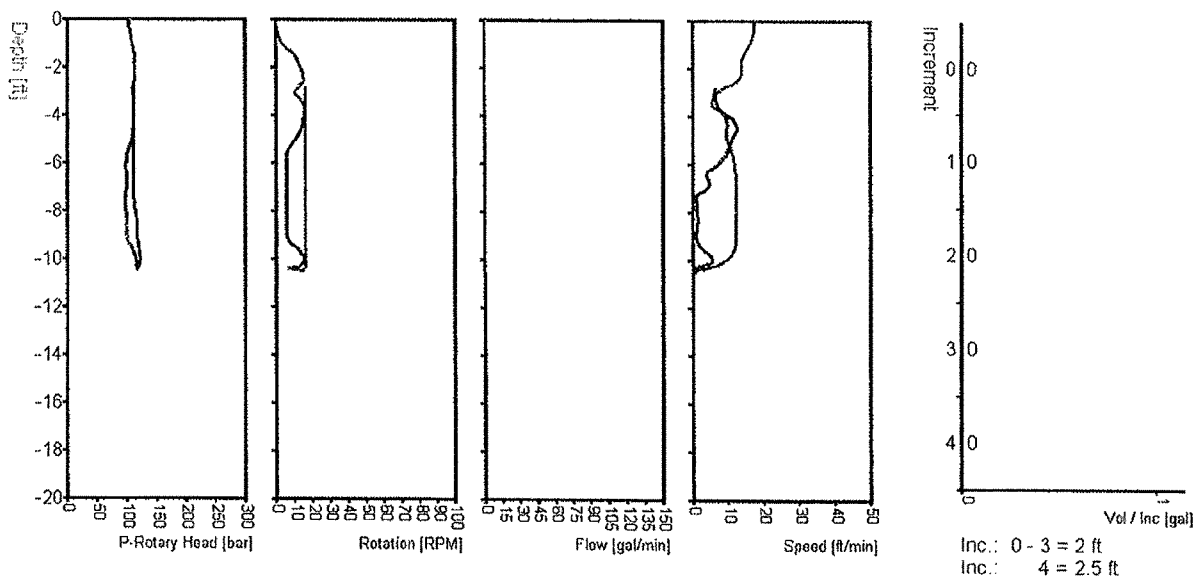
## Data for Pile No: SB110

Date: 6/17/2009  
Starttime: 2:36:53 PM  
Endtime: 2:44:11 PM  
Totaltime: 00:07:18  
Pausetime: 00:00:00  
Pilelength: 10.5 ft  
Work pad elevation: 353.4 ft  
Total Volume: 0 gal  
Strokes: 1  
Inclination (X/Y): -0.1° / 0.1°

## Timediagram



## Depthdiagram



# APPENDIX G

## Physical Properties Test Results





PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabsinc@hotmail.com

June 19, 2009

Mr. Andrew Enigk  
ARCADIS  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York 13214-0066

Re: L-09072  
Laboratory Testing  
Mill Street  
Little Falls, New York  
Arcadis Project #B0036673.0000

Dear Andrew {Andrew.enigk@arcadis-us.com}:

Enclosed are the results of laboratory testing performed at your request for the above referenced project. Results include:

1. Soil-Cement Cylinder Compression Test Report #'s 1 – 4

Additional reports will be forwarded to you as they are completed.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

A handwritten signature in cursive script that reads 'Virginia J. Thoma' followed by a circular mark.

Virginia J. Thoma  
Manager - Laboratory Services  
VJT/bll





PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabinc@hotmail.com

**SOIL-CEMENT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM D1633**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 1 (Lab ID. #24505) Date of Report: June 19, 2009 Placement Date: June 9, 2009

Report Submitted to: ARCADIS

Test Location: S-34

Mix: Soil-Cement Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT <sup>(1)</sup> (1)
1	2.99	2.98	5.85
2			

(1) Cylinders - Capped Height  
(2) Trimmed due to surface irregularities

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ IN)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
1	06/12/09	06/16/09	7	6.97	2030	290	---
2	06/12/09	--	Hold				



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**SOIL-CEMENT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM D1633**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 2 (Lab I.D. #24506) Date of Report: June 19, 2009 Placement Date: June 9, 2009

Report Submitted to: ARCADIS

Test Location: S-17

Mix: Soil-Cement Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
3	3.00	3.00	5.80
4			

(1) Cylinders - Capped Height  
(2) Trimmed due to surface irregularities

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ.IN)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
3	06/12/09	06/16/09	7	7.07	2070	295	---
4	06/12/09	--	Hold				



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**SOIL-CEMENT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM D1633**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 3 (Lab ID. #24507) Date of Report: June 19, 2009 Placement Date: June 10, 2009

Report Submitted to: ARCADIS

Test Location: S-29

Mix: Soil-Cement Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
5	2.99	2.99	5.87
6			

(1) Cylinders - Capped Height  
(2) Trimmed due to surface irregularities

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ.IN)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
5	06/12/09	06/17/09	7	7.02	3120	445	---
6	06/12/09	--	Hold				



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**SOIL-CEMENT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM D1633**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 4 (Lab I.D. #24508) Date of Report: June 19, 2009 Placement Date: June 11, 2009

Report Submitted to: ARCADIS

Test Location: S-9

Mix: Soil-Cement Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
9	2.99	2.99	5.96
10			

(1) Cylinders - Capped Height  
(2) Trimmed due to surface irregularities

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ. IN)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
9	06/12/09	06/18/09	7	7.02	3020	430	---
10	06/12/09	--	Hold				



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabsinc@hotmail.com

June 29, 2009

Mr. Andrew Enigk  
ARCADIS  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York 13214-0066

Re: L-09072  
Laboratory Testing  
Mill Street  
Little Falls, New York  
Arcadis Project #B0036673.0000

Dear Andrew {Andrew.enigk@arcadis-us.com}:

Enclosed are the results of laboratory testing performed at your request for the above referenced project. Results include:

1. Soil-Cement Cylinder Compression Test Report #5
2. Grout Cylinder Compression Test Report #6

Additional reports will be forwarded to you as they are completed.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

A handwritten signature in black ink that reads "Virginia Thoma" followed by a circular stamp containing the letters "VJ".

Virginia J. Thoma  
Manager - Laboratory Services  
VJT/bl



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabsinc@hotmail.com

**SOIL-CEMENT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM D1633**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 5 (Lab I.D. #24516) Date of Report: June 29, 2009 Placement Date: June 15, 2009

Report Submitted to: ARCADIS

Test Location: J-19

Mix: Soil-Cement Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
11	2.98	2.99	5.98
12			

(1) Cylinders - Capped Height  
(2) Trimmed due to surface irregularities

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ IN)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
11	06/18/09	06/22/09	7	6.97	2410	345	---
12	06/18/09	--	Hold				





PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
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**GROUT CYLINDER  
COMPRESSIVE STRENGTH  
ASTM C780**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 6 (Lab ID. #24517) Date of Report: June 29, 2009 Placement Date: June 15, 2009

Report Submitted to: ARCADIS

Test Location: Batch 24 (JG)

Mix: Grout Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
13	3.00	3.00	4.65

(1) Cubes - Uncapped Height  
(2) If Cube area is 3.94 to 4.06 Sq. In. use 4 Sq. In. as Area

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ. IN.)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
13	06/18/09	06/22/09	7	7.07	3320	450	--



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabsinc@hotmail.com

July 2, 2009

Mr. Andrew Enigk  
ARCADIS  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York 13214-0066

Re: L-09072  
Laboratory Testing  
Mill Street  
Little Falls, New York  
Arcadis Project #B0036673.0000

Dear Andrew {Andrew.enigk@arcadis-us.com}:

Enclosed are the results of laboratory testing performed at your request on a soil/cement sample delivered to our laboratory on June 12, 2009 for the above referenced project. Results include:

1. Hydraulic Conductivity - Flexible Wall ASTM D5084  
Laboratory I.D. #24507

1 Each

All requested tests have been completed on the previously received sample(s) for the above project. All sample remains are scheduled to be disposed of on August 1, 2009. Please notify PW Laboratories, Inc. by letter or telephone prior to August 1, 2009 if you would prefer to pick up the sample(s) or that the sample(s) be retained by PW Laboratories, Inc. for an additional period of time.

Additional reports will be forwarded to you as they are completed.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

A handwritten signature in black ink that reads "Virginia Thoma" followed by a circled "b".

Virginia J. Thoma  
Manager - Laboratory Services  
VJT/bll



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
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Measurement of Hydraulic Conductivity  
of Saturated Porous Materials  
Using a Flexible Wall Permeameter  
ASTM D5084

Report Date: July 1, 2009 Test Start Date: June 17, 2009

Project No. L-09072 Project Title: Laboratory Testing

Test Sample Location S-29 - Soil / Cement Cylinder cast on 6/10/2009 Lab I.D. # 24507

Cylinder # 7 Depth/Lift/Elev: -- Type of Sample:

Method of Compaction -- Undisturbed -- Remolded --

Percent Compaction -- Moisture Content (% of Dry Weight)

Initial Degree of Saturation (B Value) (%) -- Optimum -- Initial --

Final Degree of Saturation (B Value) (%) 96 Dry Unit Weight (PCF)

Permeant Liquid Used Deaired Deionized H<sub>2</sub>O Maximum -- Initial --

Final Moisture Content (% of Dry Weight) 42.6 Final Dry Unit Weight (PCF) 75.5

Confining Pressure (PSI) 71.0 Test (head) Pressure (PSI) 68.0 Tail (back) Pressure (PSI) 64.0

Initial Gradient 22.5 Initial Height (cm) 12.53 Initial Diameter (cm) 7.65

Final Gradient 22.5 Final Height (cm) 12.53 Final Diameter (cm) 7.50

Final Four Determinations k (cm/sec)

1.59 x 10<sup>-7</sup> 1.60 x 10<sup>-7</sup>  
1.60 x 10<sup>-7</sup> 1.60 x 10<sup>-7</sup>

Mean Value of Final Four Consecutive Determinations: Coefficient of Permeability k (cm/sec): 1.60 x 10<sup>-7</sup>

Project Specifications --

Notes: \_\_\_\_\_



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabsinc@hotmail.com

## REVISION

July 24, 2009

Mr. Andrew Enigk  
ARCADIS  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York 13214-0066

Re: L-09072  
Laboratory Testing  
Mill Street  
Little Falls, New York  
Arcadis Project #B0036673.0000

Dear Andrew {Andrew.enigk@arcadis-us.com}:

Enclosed are the results of laboratory testing performed at your request for the above referenced project. Results include:

1. Grout Cylinder Compression Test Report #1 (**Revised with correct Report #**)

Additional reports will be forwarded to you as they are completed.

Thank you for this opportunity to work with you.

Very truly yours,

PW LABORATORIES, INC.

A handwritten signature in cursive script, reading 'Virginia J. Thoma'.

Virginia J. Thoma  
Manager - Laboratory Services  
VJT/bl



PW LABORATORIES, INC.  
6544 FREMONT ROAD, EAST SYRACUSE, NY 13057  
315-437-1420 • Fax 315-437-1752 • pwlabinc@hotmail.com

**REVISED**  
**GROUT CYLINDER**  
**COMPRESSIVE STRENGTH**  
**ASTM C780**

Page 1 of 1

**FIELD DATA**

Project Title: Laboratory Testing - Mill Street - Little Falls, N.Y. - Arcadis Project #B0036673.0000 Project #: L-09072

Report No.: 1 (Lab I.D. #24517) Date of Report: July 24, 2009 Placement Date: June 15, 2009

Report Submitted to: ARCADIS

Test Location: Batch 24 (JG)

Mix: Grout Consistency (mm.): ---

Mold Type and Size: Plastic 3" x 6" Max/Min Temp: ---

Air Content: Procedure: --- Test Result: --- Agg. Corr: --- Net: ---

**LABORATORY DATA**

SPECIMEN NUMBER	DIMENSIONS		
	DIAMETER 1	DIAMETER 2	HEIGHT (1)
13	3.00	3.00	4.65

(1) Cylinders - Capped Height

**TEST RESULTS**

SPECIMEN NUMBER	DATE REMOVED FROM SITE	TESTED		AREA (SQ. IN.)	FAILURE LOAD (LBS.)	COMPRESSIVE STRENGTH (PSI)	AVERAGE COMPRESSIVE STRENGTH (PSI)
		DATE	AGE (DAYS)				
13	06/18/09	06/22/09	7	7.07	3320	450	--



## CEMENT MILL TEST REPORT

Period Represented: April, 2009  
 Plant: Bath  
 Cement: Type I ASTM

### PHYSICAL DATA

Blaine Surface Area (m <sup>2</sup> /kg) .....	388		
Percent Passing 325 Mesh .....	96.7		
Compressive Strength (psi)			
Mortar Cubes		psi	Mpa
	3 day ...	3630	25.0
	7 day ...	4490	31.0
... (Previous)	28 day ...	6270	43.2
Vicat Time Of Set (min.) .....	107		
Air Content (%) .....	7.3		
Autoclave Expansion (%) .....	0.07		
Sulfate Expansion (%) .....	(Previous) 0.008		
CO <sub>2</sub> in Cement (%).....	1.5		
Limestone in cement (%) .....	4.0		
CaCO <sub>3</sub> In Limestone (%) .....	82		

### CHEMICAL DATA

### Percent

Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) .....	4.6
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	2.9
Calcium Oxide (CaO) .....	62.3
Magnesium Oxide (MgO) .....	2.6
Sulfur Trioxide (SO <sub>3</sub> ) .....	3.1
Loss on Ignition (950 deg C) .....	2.3
Insoluble Residue .....	0.46
Free Lime .....	0.9
Tricalcium Silicate (C3S) .....	54
Dicalcium Silicate (C2S) .....	18
Tricalcium Aluminate (C3A) .....	7
Equivalent Alkalis ( as Sodium Oxide).....	0.66

We hereby certify that the above described cement, at the time of shipment, complies with the chemical and physical requirements of ASTM C 150-07

CERTIFIED BY: \_\_\_\_\_

Quality Manager





South Chicago Plant

## MILL TEST CERTIFICATE - NewCem

## Reference Results

## Fineness:

Blaine  
(m<sup>2</sup>/kg) 345\*  
45 micron  
retained (%) 6\*

## Compressive Strength (Mpa)

	Actual	Limit
7 Day	35.2	na
28 Day**	41.6	35 minimum

## CHEMICAL

Actual Limit

Na<sub>2</sub>O<sub>EQUIV</sub>  
(%) 0.83\* 0.6 to 0.9

## Sample Identification

Sample# na

April 2009  
Mill Run Composite

## Test Results

## Fineness:

Blaine  
(m<sup>2</sup>/kg) 660  
45 micron  
retained (%) 0.6

## Compressive Strength (Mpa)

7 Day	35.1
28 Day**	50.2

## Slag Activity Index (%):

	Actual	Limit
7 Day	100	na
28 Day**	121	80 minimum

	Actual	Limit
Air Content, (%)	4.0	na

S.G. NewCem 2.97Autoclave Expansion (%) 0.5 maximum

## CHEMICAL

	Actual	Limit
Sulfide Sulfur (S), (%)	1.17	2.5 maximum

SO <sub>3</sub> (%)	0.00	4.0 maximum
---------------------	------	-------------

\* Predetermined value  
\*\* Result is for March 2009

We hereby certify that the slag represented by the above chemical and physical analysis meets the requirements of CSA A23.5-98 and CSA A3001-03 for Type S Supplementary Cementing Material - Ground Granulated Blast-Furnace Slag (GGBFS).

Great Lakes Region  
South Chicago Plant  
2150 E 130th St Chicago IL 60633  
Telephone (773) 848-3150

Quality Control Supervisor

5/14/2009

Date



ORIGINAL

Lafarge North America Inc.

SEE OTHER CONDITIONS ON THE BACK

ARCADIS

Received subject to the terms of any written transportation contract between the Carrier(s) transporting this shipment and Lafarge North America or its affiliates (Shipper) on the date of issue of this Bill of Lading, the property described hereon, in apparent good order, except as noted, marked, consigned and destined as set forth hereon, which said Carrier(s) agrees to carry with reasonable dispatch to such destination. Carrier(s) shall verify the weight of the shipment and Carrier(s) agree to indemnify Shipper from any loss, cost or expense (including, but not limited to, attorney's fees) arising from or relating to Carrier(s) transportation of a load that exceeds the maximum allowable weight. Consignee accepts such shipment in accordance with Lafarge's standard terms and conditions. Page 1 of 1

NON-RECOURSE: If Shipper signs this provision, Shipper shall not be liable for freight charges and Carrier shall not deliver this shipment without advance payment of all shipping and related charges.

Signature of Shipper: \_\_\_\_\_

Branch/Plant :

66322  
OSWEGO TERMINAL  
1 W VAN BUREN ST  
OSWEGO NY 13126  
(315) 342-2872

Shipped To :

8815159  
GEO SOLUTIONS INC  
575 EAST MILL ST  
LITTLE FALLS NY 13365  
(724) 4489324

BOL No.	2773633
Load No.	
Sales Order No.	25675971
Shipment No.	18420165
Shipment Date	06/02/09
Customer Requested Delivery Date	06/03/09
Customer Requested Delivery Time (ET)	08:00:00


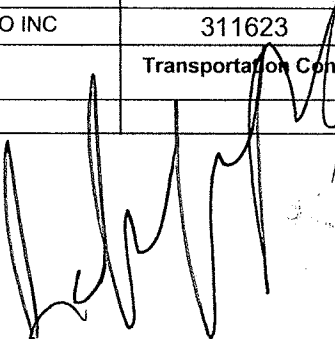


66322

Pallets Returned



060209

Sold To		Customer Purchase Order No.						
GEO SOLUTIONS INC		060209						
Item Description	Item No.	Begin/End	Silo	Bags or Gross LB	PLT	Bag Wgt or Tare LB	Net LB	Total TS
TYPE I	1N100007302	13:50 13:55	9	88,940		28,260	60,680	30.340
				 1N100007302				
BULK	NO_BELOW	STANDARD	Total US	88,940 *		28,260 *	60,680 *	30.340 *
			Total CA					
Additional Sales Order No. - If Applicable								
Special Delivery Instructions :								
Mode	Carrier Full Name	Carrier Code	Tractor/Rail Car	Trailer 1	Trailer 2			
3	MAROCCHI TRUCKING CO INC	311623	3405MHIR	741MHIR				
Rail Route Description		Transportation Contract	Trailer 1 Seal No.		Trailer 2 Seal No.			
State Stamp :			Prepaid					
<p>This is to certify that this material has been tested and conforms to New York DOT specifications.</p> 								
			Shipper Signature/ Date					
			Driver Signature/ Date					
			Customer Signature / Date					

WARNING: Corrosive - May cause severe eye and skin burns. Toxic - May cause lung disease. Read Material Safety Data Sheet (MSDS)

CUSTOMER

## CEMENT SHIPMENT CERTIFICATION

MILL SHIPMENT ☐TRANSFER SHIPMENT ☒  
(check one)

TO: The NEW YORK STATE DEPARTMENT OF TRANSPORTATION

This is to certify that all cement contained in this shipment conforms to New York State  
Department of Transportation Specifications and that all of the following information is correct.

SHIPMENT INFORMATION		MILL INFORMATION	
Consignee	<u>Geo Solutions</u>	Brand	<u>Lafarge</u>
Geographic Destination	<u>Little Falls, N.Y.</u>	Type	<u>I</u>
Shipper (Company)	<u>Lafarge North America, Inc. - Northeast Region</u>	Mill Location	<u>Bath, Ontario</u>
Shipper (Location)	<u>Oswego, New York</u>	Mill Silo No.	<u>8 + 4</u>
Shipped from Silo No.	<u>9</u>	Mill Test Date	<u>5/22/09</u>
Shipped By	<input checked="" type="checkbox"/> Bulk Truck <input type="checkbox"/> Bag Truck <input type="checkbox"/> RR Hopper <input type="checkbox"/> RR Bag <input type="checkbox"/> AAC <input type="checkbox"/> Bulk Barge	Remarks:	
Vehicle Number	<u>T-74/30</u>		
Quantity	(Bbls) <u>74/30</u> (Tons) <u>34</u> (Bags)		

- Check One ☒ This cement has an alkali content of 0.70% or less.
- ☐ This cement has an alkali content greater than 0.70% and has use limitations imposed on it. This cement can be used with specified aggregates only.

Certified By: Lafarge North America, Inc. - Northeast Region

(Company Name from NYSDOT Approved List)

ES  
(Signature,

Bulk Loader

Title (Representing Above Company),

6/2/09  
Date



2786531-18488626

SEE OTHER CONDITIONS ON THE BACK

ORIGINAL

Lafarge North America Inc.

Received subject to the terms of any written transportation contract between the Carrier(s) transporting this shipment and Lafarge North America or its affiliates (Shipper) on the date of issue of this Bill of Lading, the property described hereon, in apparent good order, except as noted, marked, consigned and destined as set forth hereon, which said Carrier(s) agrees to carry with reasonable dispatch to such destination. Carrier(s) shall verify the weight of the shipment and Carrier(s) agree to indemnify Shipper from any loss, cost or expense (including, but not limited to, attorney's fees) arising from or relating to Carrier(s) transportation of a load that exceeds the maximum allowable weight. Consignee accepts such shipment in accordance with Lafarge's standard terms and conditions.  
NON-RECOURSE: If Shipper signs this provision, Shipper shall not be liable for freight charges and Carrier shall not deliver this shipment without advance payment of all shipping and related charges.

Signature of Shipper: \_\_\_\_\_

Branch/Plant :

66322

OSWEGO TERMINAL  
1 W VAN BUREN ST  
OSWEGO NY 13126  
(315) 342-2872

Shipped To :

66322


OSWEGO TERMINAL  
1 W VAN BUREN ST  
OSWEGO NY 13126  
(315) 342-2872

<b>BOL No.</b>	<b>2786531</b>
<b>Load No.</b>	
<b>Sales Order No.</b>	<b>23689111</b>
<b>Shipment No.</b>	<b>18488626</b>
<b>Shipment Date</b>	<b>06/09/09</b>
<b>Customer Requested Delivery Date</b>	<b>06/08/09</b>
<b>Customer Requested Delivery Time (ET)</b>	<b>00:00:00</b>



66322

Pallets Returned

<b>Sold To</b>		<b>Customer Purchase Order No.</b>						
OSWEGO TERMINAL								
<b>Item Description</b>	<b>Item No.</b>	<b>Begin/End</b>	<b>Silo</b>	<b>Bags or Gross LB</b>	<b>PLT</b>	<b>Bag Wgt or Tare LB</b>	<b>Net LB</b>	<b>Total TS</b>
TYPE I	1N100007302	15:23 15:27	12	78,560		28,280	50,280	25,140
								
BULK		STANDARD		<b>Total US</b>	<b>78,560 *</b>	<b>28,280 *</b>	<b>50,280 *</b>	<b>25,140 *</b>
				<b>Total CA</b>				
<b>Additional Sales Order No. - If Applicable</b>								
<b>Special Delivery Instructions :</b>								
<b>Mode</b>	<b>Carrier Full Name</b>	<b>Carrier Code</b>	<b>Tractor/Rail Car</b>	<b>Trailer 1</b>	<b>Trailer 2</b>			
10	MAROCCHI TRUCKING CO INC	311623	3391MHIR	744MHIR				
<b>Rail Route Description</b>		<b>Transportation Contract</b>	<b>Trailer 1 Seal No.</b>		<b>Trailer 2 Seal No.</b>			
<b>State Stamp :</b>				<b>Collect</b>				
This is to certify that this material has been tested and conforms to New York DOT specifications.								
				<b>Shipper Signature/ Date</b>				
				<b>Driver Signature / Date</b>				
				<b>Customer Signature / Date</b>				

WARNING: Corrosive - May cause severe eye and skin burns. Toxic - May cause lung disease. Read Material Safety Data Sheet (MSDS)

OPERATOR

BR 280a (5/79)

CEMENT SHIPMENT CERTIFICATION

MILL SHIPMENT ☐  
TRANSFER SHIPMENT ☒  
(check one)

TO: The NEW YORK STATE DEPARTMENT OF TRANSPORTATION

This is to certify that all cement contained in this shipment conforms to New York State Department of Transportation Specifications and that all of the following information is correct.

SHIPMENT INFORMATION		MILL INFORMATION	
Consignee	<u>Preland</u>	Brand	<u>Lafarge</u>
Geographic Destination	<u>6/9/09</u>	Type	<u>I</u>
Shipper (Company)	<u>Lafarge North America, Inc. - Northeast Region</u>	Mill Location	<u>Bath, Ontario</u>
Shipper (Location)	<u>Oswego, New York</u>	Mill Silo No.	<u>8 + 4</u>
Shipped from Silo No.	<u>12</u>	Mill Test Date	<u>6/9/09</u>
Shipped By	<input checked="" type="checkbox"/> Bulk Truck <input type="checkbox"/> Bag Truck <input type="checkbox"/> RR Hopper <input type="checkbox"/> RR Bag <input type="checkbox"/> AAC <input type="checkbox"/> Bulk Barge	Remarks:	
Vehicle Number	<u>T-14</u>		
Quantity	<u>(Tons)</u> <u>36.14</u> (Bbls)		
Check One <input checked="" type="checkbox"/> This cement has an alkali content of 0.70% or less.			
<input type="checkbox"/> This cement has an alkali content greater than 0.70% and has use limitations imposed on it. This cement can be used with specified aggregates only.			

Certified By: Lafarge North America, Inc. - Northeast Region  
(Company Name from NYSDOT Approved List)  
[Signature] Bulk Loader  
(Signature) Title (Representing Above Company)



Lafarge North America Inc.



2791153-18534881

SEE OTHER CONDITIONS ON THE BACK

ORIGINAL

Received subject to the terms of any written transportation contract between the Carrier(s) transporting this shipment and Lafarge North America or its affiliates (Shipper) on the date of issue of this Bill of the property described hereon, in apparent good order, except as noted, marked, consigned and destined as set forth hereon, which said Carrier(s) agrees to carry with reasonable dispatch to such destination. Carrier(s) shall verify the weight of the shipment and Carrier(s) agree to indemnify Shipper from any loss, cost or expense (including, but not limited to, attorney's fees, arising from or relating to Carrier(s) of a load that exceeds the maximum allowable weight. Consignee accepts such shipment in accordance with Lafarge's standard terms and conditions. Page  
NON RECOURSE If Shipper signs this provision, Shipper shall not be liable for freight charges and Carrier shall not deliver this shipment without advance payment of all shipping and related charges.

Signature of Shipper: \_\_\_\_\_

Branch/Plant :

66322

OSWEGO TERMINAL  
1 W VAN BUREN ST  
OSWEGO NY 13126  
(315) 342-2872

Shipped To :

8815159

GEO SOLUTIONS INC  
575 EAST MILL ST  
LITTLE FALLS NY 13365  
(724) 4489324

BOL No.	279111
Load No.	
Sales Order No.	258720
Shipment No.	185348
Shipment Date	06/11/
Customer Requested Delivery Date	06/12/
Customer Requested Delivery Time (ET)	08:00:




66322

Pallets Returned	
------------------	--



061109

Sold To		Customer Purchase Order No.								
GEO SOLUTIONS INC		061109								
Item Description	Item No.	Begin/End	Silo	Bags or Gross LB	PLT	Bag Wgt or Tare LB	Net LB	Total TS		
TYPE I	1N100007302	16:02 16:07	1	79,920		28,760	51,160	25.58		
										
				1N100007302						
BULK		NO BELOW		STANDARD		Total US	79,920 *	28,760 *	51,160 *	25.58
						Total CA				
Additional Sales Order No. - If Applicable										
Special Delivery Instructions :										
Mode	Carrier Full Name	Carrier Code	Tractor/Rail Car	Trailer 1	Trailer 2					
3	MAROCCHI TRUCKING CO INC	311623	3391MHIR	744MHIR						
Rail Route Description		Transportation Contract	Trailer 1 Seal No.		Trailer 2 Seal No.					
State Stamp :				Prepaid						
This is to certify that this material has been tested and conforms to New York DOT specifications.										
				Shipper Signature/ Date						
				Driver Signature / Date						
				Customer Signature / Date						

WARNING: Corrosive - May cause severe eye and skin burns. Toxic - May cause lung disease. Read Material Safety Data Sheet (MSDS)

OPERATOR



**CEMENT SHIPMENT CERTIFICATION**MILL SHIPMENT ☐TRANSFER SHIPMENT ☒  
(check one)**TO: The NEW YORK STATE DEPARTMENT OF TRANSPORTATION**

This is to certify that all cement contained in this shipment conforms to New York State Department of Transportation Specifications and that all of the following information is correct.

SHIPMENT INFORMATION		MILL INFORMATION	
Consignee	<u>Geo Solutions</u>	Brand	<u>Lafarge</u>
Geographic Destination	<u>Little Falls, N.Y.</u>	Type	<u>I</u>
Shipper (Company)	<u>Lafarge North America, Inc. - Northeast Region</u>	Mill Location	<u>Bath, Ontario</u>
Shipper (Location)	<u>Oswego, New York</u>	Mill Silo No.	<u>8 + 4</u>
Shipped from Silo No.	<u>1</u>	Mill Test Date	<u>6/9/09</u>
Shipped By	<input checked="" type="checkbox"/> Bulk Truck <input type="checkbox"/> Bag Truck <input type="checkbox"/> RR Hopper <input type="checkbox"/> RR Bag <input type="checkbox"/> AAC <input type="checkbox"/> Bulk Barge	Remarks:	
Vehicle Number	<u>T-744</u>		
Quantity	<u>25.58</u> (Tons) <u>25.58</u> (Bbls) <u>25.58</u> (Bags)		

Check One

☒ This cement has an alkali content of 0.70% or less.☐ This cement has an alkali content greater than 0.70% and has use limitations imposed on it. This cement can be used with specified aggregates only.Certified By: Lafarge North America, Inc. - Northeast Region

(Company Name from NYSDOT Approved List)

Bulk Loader

(Signature)

Title (Representing Above Company).

Date



Utica  
301 St. Anthony Street  
Utica, NY 13501  
315-735-3309 (T)  
315-735-0742 (F)

TRANSMITTAL

May 01, 2009

Hanson Aggregates New York Inc.  
PO Box 513  
Jamesville, NY 13078

Attn: Mr. Rocco Perretta

Re: Soil Laboratory Testing  
Laboratory Soils Analysis  
ATL Report No.: UT1845

Dear Ladies/Gentlemen:

Enclosed are copies of the following test reports:

UT1845SL-55-04-09	Particle Size Distribution Report	April 29, 2009
UT1845SL-55-04-09	Compaction Test Report	April 29, 2009

Please contact our office should you have any questions or if we may be of further service.

Respectfully,  
ATLANTIC TESTING LABORATORIES, Limited

*Wm J Bell* For

William J. Bell  
Assistant Manager  
wbell@atlantictesting.com

WJB/gg

Enclosures

# Particle Size Distribution Report

Project: Laboratory Soils Analysis

Report No.: UT1845SL-55-04-09

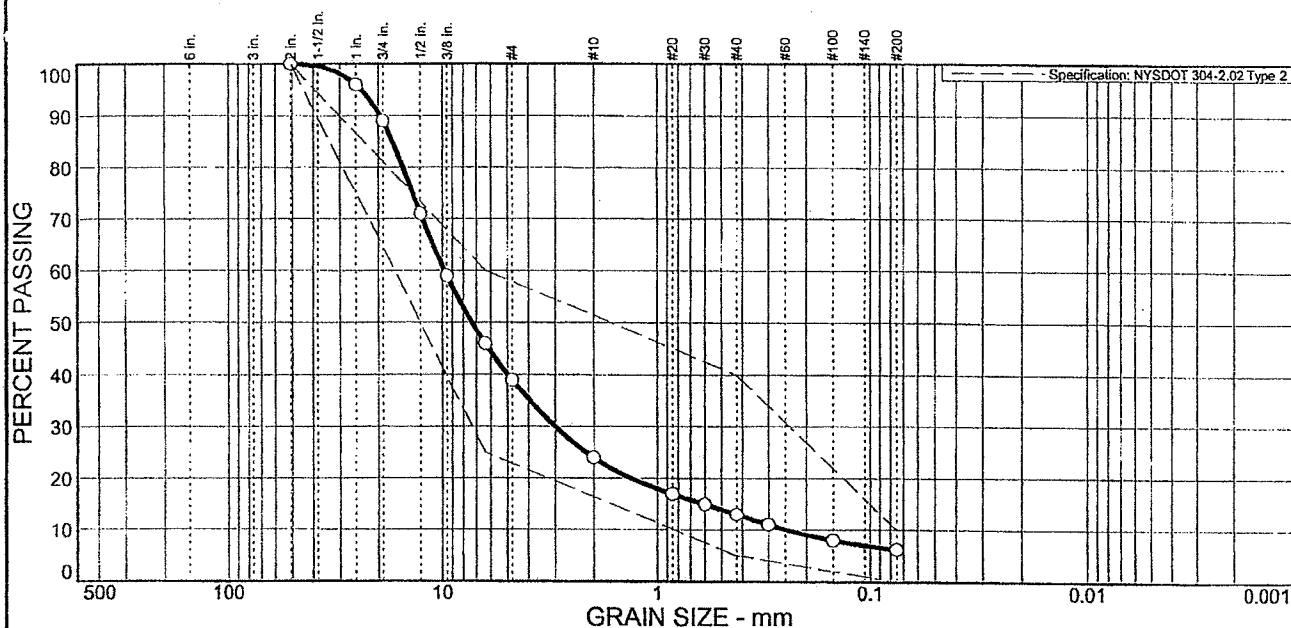
Client: Hanson Aggregates New York

Date: 05-01-09

Sample No: UT1845S55 Source of Sample: St. Johnsville Pit

Location: Stockpile from the Pit

Elev./Depth: N/A



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0	11	50	15	11	7	6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2.00 in.	100	100 - 100	
1.00 in.	96		
0.75 in.	89		
0.50 in.	71		
0.375 in.	59		
0.25 in.	46	25 - 60	
#4	39		
#10	24		
#20	17		
#30	15		
#40	13	5 - 40	
#50	11		
#100	8		
#200	6.2	0 - 10	

\* NYSDOT 304-2.02 Type 2

## Soil Description

Grey cmf GRAVEL, some cmf SAND, trace SILT/CLAY

## Atterberg Limits

PL= --- LL= --- PI= ---

## Coefficients

D<sub>85</sub>= 17.2 D<sub>60</sub>= 9.78 D<sub>50</sub>= 7.30  
D<sub>30</sub>= 3.01 D<sub>15</sub>= 0.600 D<sub>10</sub>= 0.247  
C<sub>u</sub>= 39.67 C<sub>c</sub>= 3.75

## Classification

USCS= GP-GM AASHTO= A-1-a

## Remarks

Delivered by J. Harrer on April 29, 2009  
ASTM D 422 (without Hydrometer)  
NYSDOT 304-2.02 Type 2 Crushed Ledgerrock

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

Reviewed by: Gary Grube

Date: 5/1/09



# ATLANTIC TESTING LABORATORIES

July 10, 2008

Tioga Construction Co., Inc.  
333 Gros Blvd.  
Herkimer, NY 13350

Attn: Mr. Lynn Harris

Re: Soil Laboratory Testing  
Talarico's Pit  
ATL Report No.: UT2070

Ladies/Gentlemen:

On June 11, 2008, our representative delivered one sample of proposed NYSDOT 203-2.02 Select Structural Fill material (ATL Sample No. UT2070S18) from Talarico's Pit in Herkimer, New York to our Utica, New York facility for testing. A Particle Size Analysis in accordance with ASTM D 422, a Laboratory Compaction Test in accordance with ASTM D 698 (Standard effort), and a 4-Cycle Magnesium Sulfate Soundness of Granular Material test in accordance with NYSDOT STM-11 were performed on this sample. The Particle Size Analysis and Laboratory Compaction Test reports are attached. The 4-Cycle Magnesium Sulfate Soundness test results are as follows:

## 4-CYCLE MAGNESIUM SULFATE SOUNDNESS NYSDOT STM-11

Sample No.	Sieve Size	Gradation of Tested Sample (%)	Weight prior to Testing (g)	Fraction Percent Loss	Weighted Percent Loss
UT2070S18	2 - 1	26.3	2123.5	2.8	0.7
	1 - 1/2	41.5	601.7	8.0	3.4
	1/2 - 3/4	32.2	301.6	16.4	5.2
TOTAL LOSS (%)					9.3
APPLICABLE SPECIFICATIONS (%)					≤ 30

**Note:** The gradation utilized in the calculations is from the fractions tested.  
The solution utilized in this test was freshly prepared.

Please contact our office should you have any questions or if we may be of further service.

Sincerely,  
ATLANTIC TESTING LABORATORIES, Limited

Brian T. Barnes, P.E.  
Senior Engineer  
bbarnes@atlantictesting.com

BTB/ng

Attachments



# ATLANTIC TESTING LABORATORIES

## Particle Size Distribution Report

Project: Laboratory Soils Analysis

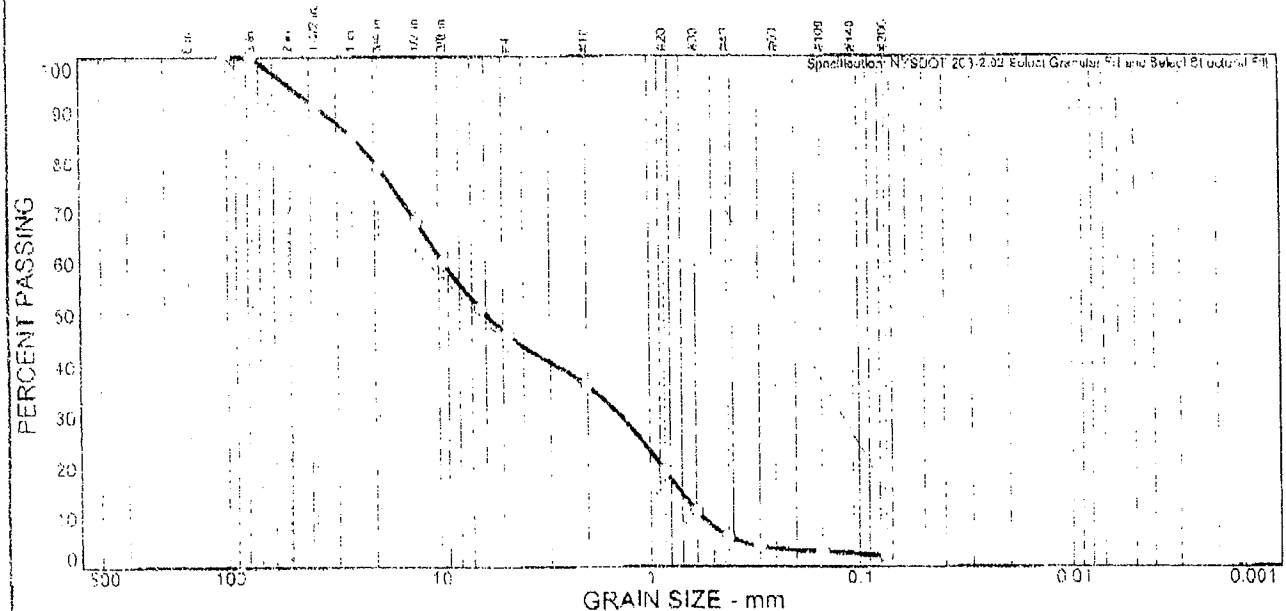
Report No.: UT2070SL-18-06-08

Client: Tioga Construction Company, Inc.

Date: 06-19-08

Sample No: UT2070S18 Source of Sample: Talenico's Pit  
Location: Stockpile from the Pit

Elev./Depth: N/A



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0	2	33	10	30	4	2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
4.00 in.	100	100 - 100	
3.00 in.	100		
1.50 in.	91		
1.00 in.	85		
0.75 in.	79		
0.50 in.	68		
0.375 in.	60		
0.25 in.	51		
#4	46		
#10	36		
#20	19		
#30	11		
#40	6	0 - 20	
#50	4		
#100	3		
#200	2	0 - 15	

### Soil Description

Brown cml GRAVEL, and cml SAND, trace SILT

### Atterberg Limits

PL= --- LL= --- PI= ---

### Coefficients

D<sub>85</sub>= 25.4 D<sub>60</sub>= 9.52 D<sub>50</sub>= 6.02  
D<sub>30</sub>= 1.40 D<sub>15</sub>= 0.720 D<sub>10</sub>= 0.569  
C<sub>u</sub>= 16.74 C<sub>c</sub>= 0.36

### Classification

USCS= GP AASHTO= A-1-a

### Remarks

Delivered by A. Ward on June 11, 2008  
ASTM D 422 (without Hydrometer)  
NYSDOT 203-2.02 Select Structural Fill.

\* NYSDOT 203-2.02 Select Granular Fill and Select Structural Fill

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

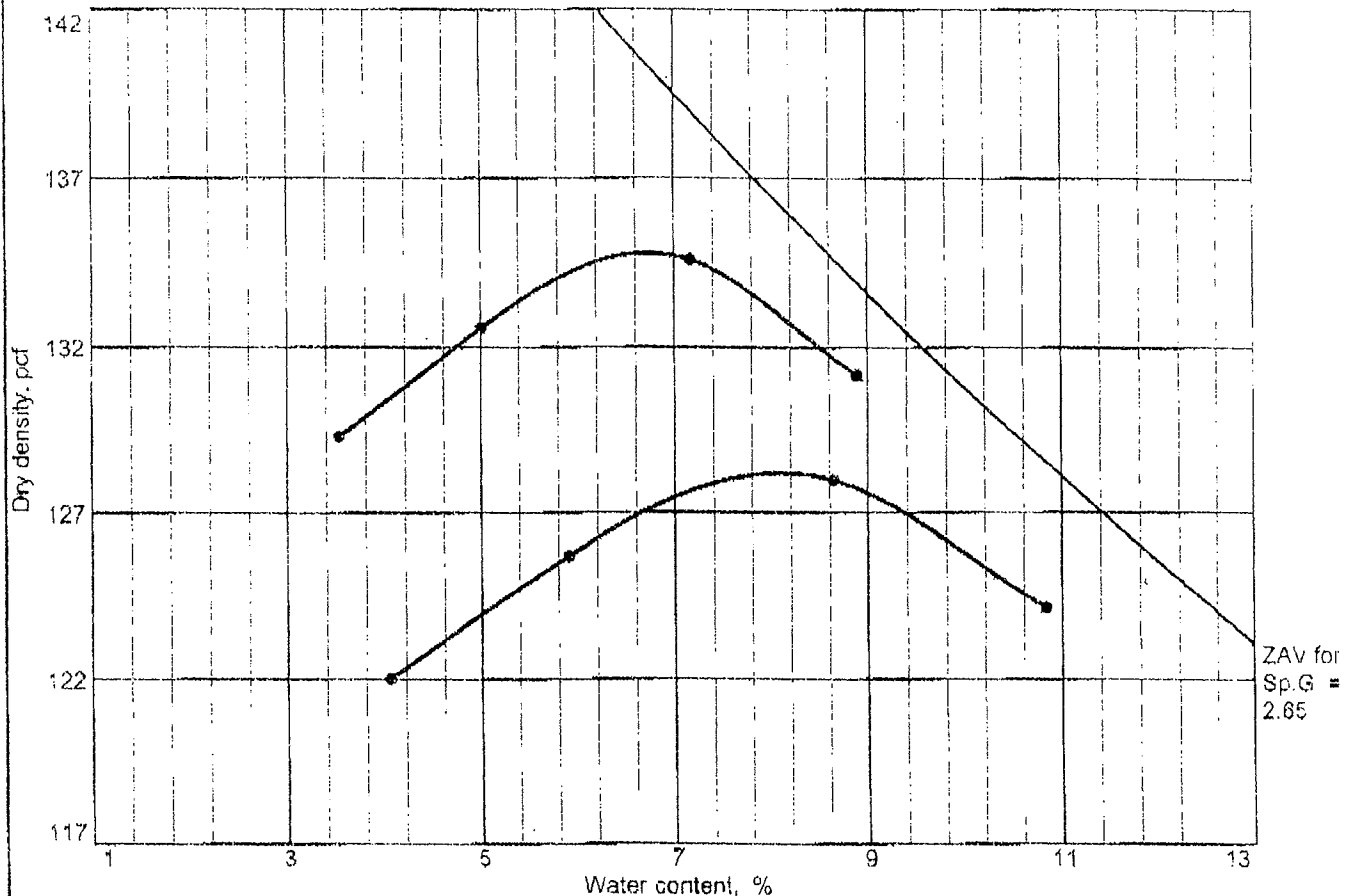
Reviewed by: Dany Griffo

Date: 06/19/08



# ATLANTIC TESTING LABORATORIES

## COMPACTION TEST REPORT



Test specification: ASTM D 698-00a Method C Standard

Elev/ Depth	Classification		Received Moist.	Sp.G.	LL	PL	PI	% > 3/4 in.
	USCS	AASHTO						
N/A	GP		4.1		---	---	---	21.0

TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 134.7 pcf		Brown cmf GRAVEL, and cmf SAND, trace SILT
Optimum moisture = 6.7 %		
Report No.: UT2070SL-18-06-08    Client: Tioga Construction Company, Inc.		Remarks: Delivered by A. Ward on June 11, 2008 Moist Preparation NYSDOT 203-2.02 Select Structural Fill
Project: Laboratory Soils Analysis		
Sample No.: UT2070SL18    Source of Sample: Talerico's Pit		
Location: Stockpile from the Pit    Date: 06-19-08		
COMPACTON TEST REPORT		
ATLANTIC TESTING LABORATORIES, LIMITED		

Reviewed by: Doug Griffe

Date: 06/19/08



# APPENDIX H

## Airborne Particulate Monitoring Results



# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 5/17/09

Project: NATIONAL GRID  
LITTLE FALLS

Number: \_\_\_\_\_

Monitoring Equipment: mini RAM PDR1000

Monitoring Personnel: STEPHEN CALEK

Weather Conditions: AM: \_\_\_\_\_ PM: \_\_\_\_\_

Wind Direction: AM: \_\_\_\_\_ PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Started GROUT INJECTION	.034	
7:15AM				2:15PM		.012	
7:30AM	REMOVING EXCESS SPOILS	.040		2:30PM		.017	
7:45AM	From Southside of bldg	.033		2:45PM	End of GROUT INJECTION		
8:00AM		.041		3:00PM			
8:15AM		.027		3:15PM			
8:30AM		.045		3:30PM			
8:45AM		.110		3:45PM			
9:00AM		.029		4:00PM			
9:15AM	Finished Spoils Removal	.034		4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM	Clear excess soil	.025		5:45PM			
11:00AM	For Drilling	.066		6:00PM			
11:15AM	Drill Set up			6:15PM			
11:30AM	Started drilling	.020		6:30PM			
11:45AM		.053		6:45PM			
12:00PM		.014		7:00PM			
12:15PM		.025		7:15PM			
12:30PM		.029		7:30PM			
12:45PM		.013		7:45PM			
1:00PM	Lunch			8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 5/17/09  
 Project: NATIONAL GRID  
 LITTLE FALLS  
 Number: \_\_\_\_\_

Monitoring Equipment: MINI RAZ 2000  
 Monitoring Personnel: STUBERFALCH  
 Weather Conditions: AM: \_\_\_\_\_ PM: \_\_\_\_\_  
 Wind Direction: AM: \_\_\_\_\_ PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Started GROUT INJECTION	0.0	
7:15AM				2:15PM		0.0	
7:30AM	REMOVING EXCESS SPOILS	0.0		2:30PM		0.0	
7:45AM	from southside of bldg	0.0		2:45PM	END OF GROUT INJECTION		
8:00AM		0.0		3:00PM			
8:15AM		0.0		3:15PM			
8:30AM		0.0		3:30PM			
8:45AM		0.0		3:45PM			
9:00AM		0.0		4:00PM			
9:15AM	Finished Spoils Removal	0.0		4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM	Clear excess Soil	0.0		5:45PM			
11:00AM	Get drilling	0.0		6:00PM			
11:15AM	Drill Set up			6:15PM			
11:30AM	Started drilling	0.0		6:30PM			
11:45AM		0.0		6:45PM			
12:00PM		0.0		7:00PM			
12:15PM		0.0		7:15PM			
12:30PM		0.0		7:30PM			
12:45PM		0.0		7:45PM			
1:00PM	Lunch			8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/4/09  
 Project: LITTLE FALLS  
 Number: \_\_\_\_\_

Monitoring Equipment: Mini RAIN  
 Monitoring Personnel: MIKE STEUBENRAUCH  
 Weather Conditions: AM: Sunny 60-65  
 Wind Direction: AM:

PM: \_\_\_\_\_  
 PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM	<u>South Side of bldg</u>	<u>0.0</u>	<u>MWS</u>	4:00PM			
9:15AM	<u>"</u>	<u>0.096</u>	<u>MWS</u>	4:15PM			
9:30AM	<u>"</u>	<u>0.097</u>	<u>MWS</u>	4:30PM			
9:45AM	<u>"</u>	<u>0.020</u>	<u>MWS</u>	4:45PM			
10:00AM	<u>"</u>	<u>0.024</u>	<u>MWS</u>	5:00PM			
10:15AM	<u>"</u>	<u>0.019</u>	<u>MWS</u>	5:15PM			
10:30AM	<u>"</u>	<u>0.016</u>	<u>MWS</u>	5:30PM			
10:45AM	<u>"</u>	<u>0.022</u>	<u>MWS</u>	5:45PM			
11:00AM	<u>"</u>	<u>0.018</u>	<u>MWS</u>	6:00PM			
11:15AM	<u>"</u>	<u>0.030</u>	<u>MWS</u>	6:15PM			
11:30AM	<u>"</u>	<u>0.043</u>	<u>MWS</u>	6:30PM			
11:45AM		<u>0.027</u>	<u>MWS</u>	6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM		<u>0.019</u>	<u>MWS</u>	7:30PM			
12:45PM		<u>0.029</u>	<u>MWS</u>	7:45PM			
1:00PM		<u>0.027</u>	<u>MWS</u>	8:00PM			
1:15PM		<u>0.026</u>	<u>MWS</u>	8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/4/09  
 Project: LITTLE FALLS  
 Number: \_\_\_\_\_

Monitoring Equipment: MINI-RAE 2000  
 Monitoring Personnel: MIKE SWEENEY  
 Weather Conditions: AM: Sunny 80-85 PM:  
 Wind Direction: AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM	<u>South side of bldg</u>	<u>0.0</u>	<u>MWS</u>	4:00PM			
9:15AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	4:15PM			
9:30AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	4:30PM			
9:45AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	4:45PM			
10:00AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	5:00PM			
10:15AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	5:15PM			
10:30AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	5:30PM			
10:45AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	5:45PM			
11:00AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	6:00PM			
11:15AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	6:15PM			
11:30AM	<u>1'</u>	<u>0.3</u>	<u>MWS</u>	6:30PM			
11:45AM	<u>1'</u>	<u>0.0</u>	<u>MWS</u>	6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM		<u>0.0</u>	<u>MWS</u>	7:30PM			
12:45PM		<u>0.2</u>	<u>MWS</u>	7:45PM			
1:00PM		<u>0.1</u>	<u>MWS</u>	8:00PM			
1:15PM		<u>0.0</u>	<u>MWS</u>	8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/5/09

Project:

Number:

Monitoring Equipment: mini Ram

Monitoring Personnel:

Weather Conditions: AM: PT cloudy

Wind Direction: AM: South West

PM:

PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM	Southside of Bldg	0004	MWS	3:30PM			
8:45AM		0002		3:45PM			
9:00AM		0005		4:00PM			
9:15AM		0004		4:15PM			
9:30AM		0000		4:30PM			
9:45AM		0000		4:45PM			
10:00AM		0001		5:00PM			
10:15AM		0000		5:15PM			
10:30AM		0000		5:30PM			
10:45AM		0000		5:45PM			
11:00AM		0001		6:00PM			
11:15AM		0001		6:15PM			
11:30AM		0001		6:30PM			
11:45AM		0002		6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM				8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			



# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/5/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

Mini RAE 2000

AM: PT cloudy PM:

AM: Southwest PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM	South Side of bldg	0.0	WWS	3:15PM			
8:30AM		0.0		3:30PM			
8:45AM		0.0		3:45PM			
9:00AM		0.0		4:00PM			
9:15AM		0.0		4:15PM			
9:30AM		0.0		4:30PM			
9:45AM		0.0		4:45PM			
10:00AM		0.0		5:00PM			
10:15AM		0.0		5:15PM			
10:30AM		0.0		5:30PM			
10:45AM		0.0		5:45PM			
11:00AM		0.0		6:00PM			
11:15AM		0.0		6:15PM			
11:30AM		0.0		6:30PM			
11:45AM		0.0		6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM				8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/9/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

mini RAM

AM: cloudy RAIN

PM: RAIN

PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Southwest corner of bldg	0044	
7:15AM				2:15PM	End of ID-site activities		
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM	Southside bldg	0015	MWS	5:00PM			
10:15AM	No drilling	—		5:15PM			
10:30AM	Southside of bldg	0016	MWS	5:30PM			
10:45AM	No drilling	—		5:45PM			
11:00AM	Southside of bldg	0016	MWS	6:00PM			
11:15AM	11:20 Southside of bldg	0016	MWS	6:15PM			
11:30AM	"	0011	MWS	6:30PM			
11:45AM	"	0006	MWS	6:45PM			
12:00PM	"	0014	MWS	7:00PM			
12:15PM	"	0013	MWS	7:15PM			
12:30PM	"	0018	MWS	7:30PM			
12:45PM	"	0017	MWS	7:45PM			
1:00PM	Down for service	—		8:00PM			
1:15PM	"	—		8:15PM			
1:30PM	Southwest corner of bldg	0022		8:30PM			
1:45PM	"	0029		8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/9/09

Date:  
Project:  
Number:

Monitoring Equipment:  
Monitoring Personnel:  
Weather Conditions:  
Wind Direction:

Mini RAE 2000

AM: Cloudy Rain PM: Rain  
AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	South West corner of bldg	0.2	
7:15AM				2:15PM	End of In situ activities		
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM	South side of bldg	0.0	MWS	5:00PM			
10:15AM	No drilling	—		5:15PM			
10:30AM	South side of bldg	0.0	MWS	5:30PM			
10:45AM	No drilling	—		5:45PM			
11:00AM	South side of bldg	0.0	MWS	6:00PM			
11:15AM	11:20 South side of bldg	0.1	MWS	6:15PM			
11:30AM		0.1	MWS	6:30PM			
11:45AM		0.1	MWS	6:45PM			
12:00PM		0.1	MWS	7:00PM			
12:15PM		0.2	MWS	7:15PM			
12:30PM		0.1	MWS	7:30PM			
12:45PM		0.2	MWS	7:45PM			
1:00PM	Down for service	—		8:00PM			
1:15PM		—		8:15PM			
1:30PM	Southwest corner of bldg	0.3		8:30PM			
1:45PM	" "	0.4		8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/10/09

Monitoring Equipment: Mini Ram

Monitoring Personnel: STUDENT-ADOL

Weather Conditions: AM: Cloudy / Humid

Wind Direction: AM:

PM: Sunny / Breezy

Number:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM	Southside of bldg	0.008	MWS	2:30PM			
7:45AM	Removaling Spoils	0.043	MWS	2:45PM			
8:00AM		0.058	MWS	3:00PM			
8:15AM		0.019	MWS	3:15PM			
8:30AM		0.037	MWS	3:30PM			
8:45AM		0.032	MWS	3:45PM			
9:00AM		0.038	MWS	4:00PM			
9:15AM		0.047	MWS	4:15PM			
9:30AM	Soil Stabilization	0.026	MWS	4:30PM			
9:45AM	South Side of Bldg	0.010	MWS	4:45PM			
10:00AM		0.030	MWS	5:00PM			
10:15AM		0.034	MWS	5:15PM			
10:30AM		0.031	MWS	5:30PM			
10:45AM		0.029	MWS	5:45PM			
11:00AM		0.009	MWS	6:00PM			
11:15AM		0.020	MWS	6:15PM			
11:30AM		0.014	MWS	6:30PM			
11:45AM		0.005	MWS	6:45PM			
12:00PM		0.030	MWS	7:00PM			
12:15PM		0.014	MWS	7:15PM			
12:30PM		0.085	MWS	7:30PM			
12:45PM		0.019	MWS	7:45PM			
1:00PM		0.033	MWS	8:00PM			
1:15PM		0.029	MWS	8:15PM			
1:30PM		0.011	MWS	8:30PM			
1:45PM	Soil Stabilization	0.032	MWS	8:45PM			

IN-SITU

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 4/10/09

Monitoring Equipment: Mini RAE

Monitoring Personnel: Steven Baczynski

Weather Conditions: AM: Cloudy/Humid

Wind Direction: AM:

PM: Sunny/Breezy

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM	South side of bldg	0.0	MWS	2:30PM			
7:45AM	Remaining Spoiles	0.0	MWS	2:45PM			
8:00AM		0.0	MWS	3:00PM			
8:15AM		0.0	MWS	3:15PM			
8:30AM		0.0	MWS	3:30PM			
8:45AM		0.0	MWS	3:45PM			
9:00AM		0.0	MWS	4:00PM			
9:15AM		0.0	MWS	4:15PM			
9:30AM	Soil Stabilization s/s Bldg	0.0	MWS	4:30PM			
9:45AM		0.0	MWS	4:45PM			
10:00AM		0.1	MWS	5:00PM			
10:15AM		0.0	MWS	5:15PM			
10:30AM		0.0	MWS	5:30PM			
10:45AM		0.2	MWS	5:45PM			
11:00AM		0.1	MWS	6:00PM			
11:15AM		0.1	MWS	6:15PM			
11:30AM		0.1	MWS	6:30PM			
11:45AM		0.1	MWS	6:45PM			
12:00PM		0.1	MWS	7:00PM			
12:15PM		0.1	MWS	7:15PM			
12:30PM		0.1	MWS	7:30PM			
12:45PM		0.2	MWS	7:45PM			
1:00PM		0.1	MWS	8:00PM			
1:15PM		0.2	MWS	8:15PM			
1:30PM		0.1	MWS	8:30PM			
1:45PM	Soil Stabilization	0.1	MWS	8:45PM			

END

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/11/09

Project:

Monitoring Equipment: Mini RAM

Number:

Monitoring Personnel:

Weather Conditions: AM: Cloudy / Humid PM:

Wind Direction: AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Southwest of Bldg	.037	
7:15AM				2:15PM	End of extensive activities		
7:30AM				2:30PM			
7:45AM	Catch Basin Removal	.014		2:45PM			
8:00AM	Southwest of bldg	.027		3:00PM			
8:15AM		.022		3:15PM			
8:30AM		.031		3:30PM			
8:45AM		.037		3:45PM			
9:00AM		.086		4:00PM			
9:15AM		.027		4:15PM			
9:30AM		.035		4:30PM			
9:45AM		.053		4:45PM			
10:00AM		.046		5:00PM			
10:15AM	In-Situ Soil Stabilization	.048		5:15PM			
10:30AM	Southwest of bldg	.044		5:30PM			
10:45AM		.059		5:45PM			
11:00AM		.062		6:00PM			
11:15AM		.030		6:15PM			
11:30AM		.047		6:30PM			
11:45AM		.043		6:45PM			
12:00PM		.044		7:00PM			
12:15PM		.066		7:15PM			
12:30PM		.035		7:30PM			
12:45PM		.037		7:45PM			
1:00PM		.044		8:00PM			
1:15PM		.065		8:15PM			
1:30PM		.049		8:30PM			
1:45PM		.043		8:45PM			



# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/11/09

Project: \_\_\_\_\_

Number: \_\_\_\_\_

Monitoring Equipment: \_\_\_\_\_

Monitoring Personnel: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Wind Direction: \_\_\_\_\_

Mini RAE 2000

AM: CLOUDY/HUMID PM: \_\_\_\_\_

AM: \_\_\_\_\_ PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	SOUTHWEST OF BLDG	0.1	
7:15AM				2:15PM	END OF EXPOSURE ACT	0.1	
7:30AM				2:30PM			
7:45AM	Catch Basin Removal	0.0		2:45PM			
8:00AM	SOUTHWEST OF BLDG	0.0		3:00PM			
8:15AM		0.0		3:15PM			
8:30AM		0.0		3:30PM			
8:45AM		0.0		3:45PM			
9:00AM		0.0		4:00PM			
9:15AM		0.0		4:15PM			
9:30AM		0.0		4:30PM			
9:45AM		0.2		4:45PM			
10:00AM		0.1		5:00PM			
10:15AM	IN-SITU SOIL STABILIZATION	0.3		5:15PM			
10:30AM	SOUTHWEST OF BLDG	0.1		5:30PM			
10:45AM		0.1		5:45PM			
11:00AM		0.1		6:00PM			
11:15AM		0.1		6:15PM			
11:30AM		0.1		6:30PM			
11:45AM		0.2		6:45PM			
12:00PM		0.1		7:00PM			
12:15PM		0.1		7:15PM			
12:30PM		0.1		7:30PM			
12:45PM		0.2		7:45PM			
1:00PM		0.2		8:00PM			
1:15PM		0.2		8:15PM			
1:30PM		0.3		8:30PM			
1:45PM		0.1		8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/12/09  
 Project: \_\_\_\_\_  
 Number: \_\_\_\_\_

Monitoring Equipment: MiniRAM  
 Monitoring Personnel: \_\_\_\_\_  
 Weather Conditions: AM: Cloudy  
 Wind Direction: AM:

PM: Sunny/Breezy  
 PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Repair Storm Sewer Line	.025	
7:15AM				2:15PM		.047	
7:30AM	No Intrusive Activities			2:30PM		.032	
7:45AM				2:45PM		.032	
8:00AM				3:00PM	End of Intrusive Activity		
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM				5:45PM			
11:00AM				6:00PM			
11:15AM				6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM				8:00PM			
1:15PM				8:15PM			
1:30PM	Repair Storm Sewer Line	.031		8:30PM			
1:45PM		.018		8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/12/09  
 Project: \_\_\_\_\_  
 Number: \_\_\_\_\_

Monitoring Equipment: mini RAE  
 Monitoring Personnel: \_\_\_\_\_  
 Weather Conditions: AM: cloudy PM: Sunny/Breezy  
 Wind Direction: AM: \_\_\_\_\_ PM: \_\_\_\_\_

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Repair Storm Sewer Pipe	0.0	
7:15AM				2:15PM		0.0	
7:30AM				2:30PM		0.0	
7:45AM				2:45PM		0.0	
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM				5:45PM			
11:00AM				6:00PM			
11:15AM				6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM				8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

NO INTRUSIVE ACTIVITY

END OF INTRUSIVE ACTIVITIES

Repair Storm Sewer Pipe

0.0  
0.0

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/15/09  
 Project: \_\_\_\_\_  
 Number: \_\_\_\_\_  
 Monitoring Equipment: Mini RAM  
 Monitoring Personnel: STUBBS ADEL  
 Weather Conditions: AM: Sunny SLIGHT BREEZE PM: Sunny LT BREEZE  
 Wind Direction: AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Down for MAINT		
7:15AM				2:15PM			
7:30AM				2:30PM	Grout Intersection	.074	
7:45AM				2:45PM	South Side of Bldg	.039	
8:00AM				3:00PM		.087	
8:15AM				3:15PM		.022	
8:30AM				3:30PM		.012	
8:45AM				3:45PM		.011	
9:00AM	South Side of Bldg	.028		4:00PM		.024	
9:15AM	JET Grout Drilling	.030		4:15PM		.014	
9:30AM		.008		4:30PM	END of Intrusive		
9:45AM		.043		4:45PM	Work for the Day		
10:00AM		.022		5:00PM			
10:15AM		.012		5:15PM			
10:30AM		.102		5:30PM			
10:45AM		.042		5:45PM			
11:00AM		.041		6:00PM			
11:15AM		.004		6:15PM			
11:30AM		.053		6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM		.023		7:30PM			
12:45PM		.018		7:45PM			
1:00PM		.012		8:00PM			
1:15PM		.034		8:15PM			
1:30PM	Mixing Grout			8:30PM			
1:45PM	Grout Intersection	.012		8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/15/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

Mini RAE 2000

Subsidence

AM: Sunny Slight Breeze

PM:

PM: Sunny AT Breeze

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	Down for MAINT.		
7:15AM				2:15PM			
7:30AM				2:30PM	Grout Injection	0.0	
7:45AM				2:45PM	Southside of bldg	0.0	
8:00AM				3:00PM		0.0	
8:15AM				3:15PM		0.0	
8:30AM				3:30PM		0.0	
8:45AM				3:45PM		0.0	
9:00AM		0.0		4:00PM		0.0	
9:15AM	Southside of bldg	0.0		4:15PM		0.0	
9:30AM	Test Grout Drilling	0.0		4:30PM	End of Intrusive Work for the Day		
9:45AM		0.0		4:45PM			
10:00AM		0.0		5:00PM			
10:15AM		0.0		5:15PM			
10:30AM		0.0		5:30PM			
10:45AM		0.0		5:45PM			
11:00AM		0.0		6:00PM			
11:15AM		0.0		6:15PM			
11:30AM		0.0		6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM		0.0		7:30PM			
12:45PM		0.0		7:45PM			
1:00PM		0.0		8:00PM			
1:15PM		0.0		8:15PM			
1:30PM	Mixing Grout			8:30PM			
1:45PM	Grout Injection	0.0		8:45PM			

Sewer Elevation

Sewer Elevation

Sewer Check

Sewer Check

Sewer Check

Sewer Check Elevation

Sewer Check Elevation

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/16/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

Mini Ram

Stabenrauch

AM: Cloudy

PM: Sunny

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM	Southside of bldg trench	.097	MWS	2:30PM			
7:45AM	digging for SPILL RUNOFF	.024	MWS	2:45PM			
8:00AM		.041	MWS	3:00PM			
8:15AM	digging out 3 columns	.089	MWS	3:15PM			
8:30AM		.446	MWS	3:30PM			
8:45AM		.056	MWS	3:45PM			
9:00AM	Finished digging out	.027	MWS	4:00PM			
9:15AM	for 3 columns			4:15PM			
9:30AM	Started TET GROUT	.027	MWS	4:30PM			
9:45AM	Drill @ SW corner	.022	MWS	4:45PM			
10:00AM	of bldg	.012	MWS	5:00PM			
10:15AM		.037	MWS	5:15PM			
10:30AM		.018	MWS	5:30PM			
10:45AM		.009	MWS	5:45PM			
11:00AM		.008	MWS	6:00PM			
11:15AM	Lunch			6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM	Started GROUT Injection	.012	MWS	7:00PM			
12:15PM		.008	MWS	7:15PM			
12:30PM		.013	MWS	7:30PM			
12:45PM		.014	MWS	7:45PM			
1:00PM		.022	MWS	8:00PM			
1:15PM		.009	MWS	8:15PM			
1:30PM	Finished GROUT Injection			8:30PM			
1:45PM				8:45PM			

checked  
SENDER

checked  
SENDER



# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/16/09  
 Project:  
 Number:

Monitoring Equipment: MINI RAE  
 Monitoring Personnel: STUBENRACH  
 Weather Conditions: AM: Cloudy PM: Sunny  
 Wind Direction: AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM	Southside of bldg Trench	0.0	MWS	2:30PM			
7:45AM	Digging for Spoil Runoff	0.0	MWS	2:45PM			
8:00AM		0.0	MWS	3:00PM			
8:15AM	Digging out 3 columns	0.0	MWS	3:15PM			
8:30AM		0.0	MWS	3:30PM			
8:45AM		0.0	MWS	3:45PM			
9:00AM	Finished digging out	0.0	MWS	4:00PM			
9:15AM	for 3 columns	0.0	MWS	4:15PM			
9:30AM	Started GET Grout	0.0	MWS	4:30PM			
9:45AM	Drill at SW corner	0.0	MWS	4:45PM			
10:00AM	of Bldg	0.0	MWS	5:00PM			
10:15AM		0.0	MWS	5:15PM			
10:30AM		0.0	MWS	5:30PM			
10:45AM		0.0	MWS	5:45PM			
11:00AM		0.0	MWS	6:00PM			
11:15AM	Lunch			6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM		0.0	MWS	7:00PM			
12:15PM	Started Grout Injection	0.0	MWS	7:15PM			
12:30PM		0.0	MWS	7:30PM			
12:45PM		0.0	MWS	7:45PM			
1:00PM		0.0	MWS	8:00PM			
1:15PM		0.0	MWS	8:15PM			
1:30PM	Finished Grout Injection			8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/22/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

MIRIAM PDR

STUBENMUEH

AM: PTC Cloudy

PM: Sunny

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM		.059	MWS
7:15AM				2:15PM		.108	MWS
7:30AM				2:30PM		.023	MWS
7:45AM				2:45PM		.030	MWS
8:00AM				3:00PM		.026	MWS
8:15AM				3:15PM	Finished Grading for the Day	.011	MWS
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM	Start Grading Area on	.024	MWS	5:15PM			
10:30AM	Southside of bldg	.004	MWS	5:30PM			
10:45AM		.006	MWS	5:45PM			
11:00AM		.009	MWS	6:00PM			
11:15AM		.005	MWS	6:15PM			
11:30AM		.003	MWS	6:30PM			
11:45AM		.004	MWS	6:45PM			
12:00PM		.006	MWS	7:00PM			
12:15PM	Lunch	—		7:15PM			
12:30PM	Lunch	—		7:30PM			
12:45PM		.023	MWS	7:45PM			
1:00PM		.017	MWS	8:00PM			
1:15PM		.014	MWS	8:15PM			
1:30PM		.019	MWS	8:30PM			
1:45PM		.022	MWS	8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/22/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

MINI RAE 2000

STUBENRUCH

AM: PT. CLOUDY

AM:

PM: Sunny

PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM		0.1	MWS
7:15AM				2:15PM		0.4	MWS
7:30AM				2:30PM		0.1	MWS
7:45AM				2:45PM		0.0	MWS
8:00AM				3:00PM		0.0	MWS
8:15AM				3:15PM	Finished grading for the day	0.0	MWS
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM	Start Grading Area on South side of bldg	0.0	MWS	5:15PM			
10:30AM		0.0	MWS	5:30PM			
10:45AM		0.0	MWS	5:45PM			
11:00AM		0.0	MWS	6:00PM			
11:15AM		0.0	MWS	6:15PM			
11:30AM		0.0	MWS	6:30PM			
11:45AM		0.0	MWS	6:45PM			
12:00PM		0.0	MWS	7:00PM			
12:15PM	Lunch	-		7:15PM			
12:30PM	Lunch	-		7:30PM			
12:45PM		0.0	MWS	7:45PM			
1:00PM		0.0	MWS	8:00PM			
1:15PM		0.0	MWS	8:15PM			
1:30PM		0.0	MWS	8:30PM			
1:45PM		0.0	MWS	8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 6/23/09

Project:

Number:

Monitoring Equipment: m: d: i: p: a: r: p: d: r

Monitoring Personnel: S. J. H. E. N. N. A. C. H.

Weather Conditions: AM: Sunny PM: Sunny

Wind Direction: AM: PM:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM	Continue grading on south side of bldg	.026	MWS	4:45PM			
10:00AM		.014		5:00PM			
10:15AM		.036		5:15PM			
10:30AM		.019		5:30PM			
10:45AM		.014		5:45PM			
11:00AM	Finished grading on south side of bldg	.021	MWS	6:00PM			
11:15AM				6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM	Started digging Test Pit	.010	MWS	8:00PM			
1:15PM		.009	MWS	8:15PM			
1:30PM	Finished digging Test Pit	.007	MWS	8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

6/23/09

Date:

Project:

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

Mini RAE

STUBENACK

AM: Sunny

PM: Sunny

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM				2:15PM			
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM				3:00PM			
8:15AM				3:15PM			
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM	Continue grading on	0.0	MWS	4:45PM			
10:00AM	Southside of bldg	0.0	MWS	5:00PM			
10:15AM		0.0	MWS	5:15PM			
10:30AM		0.0	MWS	5:30PM			
10:45AM		0.0	MWS	5:45PM			
11:00AM	Finished grading on	0.0	MWS	6:00PM			
11:15AM	Southside of bldg			6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM	Started digging test pit	0.0	MWS	8:00PM			
1:15PM		0.0	MWS	8:15PM			
1:30PM	Finished digging test pit	0.0	MWS	8:30PM			
1:45PM				8:45PM			

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

2/8/09

Date:

Project: LITTLE FALLS NATL. GND

Number:

Monitoring Equipment:

Monitoring Personnel:

Weather Conditions:

Wind Direction:

Mini Ram PDR

STUBENAU

AM: PT CLODY SPOTTY SHOWERS

PM:

PM: SPOTTY SHOWERS

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	LOADING TRUCKS COMPLETE		
7:15AM				2:15PM	DIGGING FINISHED		
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM	NOSE OF PIPE GALLERY	.013	MWS	3:00PM			
8:15AM	SOIL EXCAVATION	.050	MWS	3:15PM			
8:30AM	TRUCK LOADING	.010	MWS	3:30PM			
8:45AM		.020	MWS	3:45PM			
9:00AM		.011	MWS	4:00PM			
9:15AM		.068	MWS	4:15PM			
9:30AM		.000	MWS	4:30PM			
9:45AM	STOPPED DIGGING			4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM				5:45PM			
11:00AM				6:00PM			
11:15AM				6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM	STARTED DIGGING AGAIN	.002	MWS	7:15PM			
12:30PM	LOADING TRUCKS	.004	MWS	7:30PM			
12:45PM	PIPE GALLERY	.018	MWS	7:45PM			
1:00PM		.021	MWS	8:00PM			
1:15PM		.002	MWS	8:15PM			
1:30PM		.053	MWS	8:30PM			
1:45PM		.031	MWS	8:45PM			

STARTED  
RAINING  
DUST  
monitors  
off

DUST  
monitors  
on



# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

Date: 7/8/09

Project:

Number:

Monitoring Equipment: Mini RAE 3000

Monitoring Personnel: STUBENMACH

Weather Conditions: AM: PT Cloudy SPATTY Showers

Wind Direction: AM: PM:

PM: SPATTY Showers

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM	LOADING TRUCKS COMPLETE		
7:15AM				2:15PM	DIGGING COMPLETE		
7:30AM				2:30PM			
7:45AM				2:45PM			
8:00AM	NORTH OF PIPE GALLERY	0.0	MWS	3:00PM			
8:15AM	SOIL EXCAVATION	0.0	MWS	3:15PM			
8:30AM	TRUCK LOADING	0.0	MWS	3:30PM			
8:45AM		0.0	MWS	3:45PM			
9:00AM		0.2	MWS	4:00PM			
9:15AM		0.0	MWS	4:15PM			
9:30AM		0.0	MWS	4:30PM			
9:45AM	STOPPED DIGGING			4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM				5:45PM			
11:00AM				6:00PM			
11:15AM				6:15PM			
11:30AM				6:30PM			
11:45AM				6:45PM			
12:00PM				7:00PM			
12:15PM	STARTED DIGGING AGAIN	0.0	MWS	7:15PM			
12:30PM	LOADING TRUCKS	0.3	MWS	7:30PM			
12:45PM	PIPE GALLERY	0.2	MWS	7:45PM			
1:00PM		0.3	MWS	8:00PM			
1:15PM		0.2	MWS	8:15PM			
1:30PM		0.2	MWS	8:30PM			
1:45PM		0.2	MWS	8:45PM			

STARTED RAINING

# ROYAL Environmental, Inc.

## Air Monitoring Log Sheet

7/9/09

Date:

Project:

Monitoring Equipment: MINI BAM

Monitoring Personnel: Schubert

Weather Conditions:

Wind Direction:

AM:

PM:

Number:

Sample Time	Sampling Location	Readings ppm	Sampler's Initials	Sample Time	Sampling Location	Readings ppm	Sampler's Initials
7:00AM				2:00PM			
7:15AM	LOADING OUT ISS	.005	MWS	2:15PM			
7:30AM	SPRINKLER STOCKPILE	.013	MWS	2:30PM	STARTED TRUCK LOADING	.008	MWS
7:45AM		.008	MWS	2:45PM		.001	MWS
8:00AM	FINISHED LOADING TRUCK	.017	MWS	3:00PM		.014	MWS
8:15AM				3:15PM	FINISHED TRUCK LOADING	.010	MWS
8:30AM				3:30PM			
8:45AM				3:45PM			
9:00AM				4:00PM			
9:15AM				4:15PM			
9:30AM				4:30PM			
9:45AM				4:45PM			
10:00AM				5:00PM			
10:15AM				5:15PM			
10:30AM				5:30PM			
10:45AM				5:45PM			
11:00AM				6:00PM			
11:15AM				6:15PM			
11:30AM	STARTED LOADING TRUCK	.013	MWS	6:30PM			
11:45AM		.010	MWS	6:45PM			
12:00PM	FINISHED TRUCK LOADING	.013	MWS	7:00PM			
12:15PM				7:15PM			
12:30PM				7:30PM			
12:45PM				7:45PM			
1:00PM				8:00PM			
1:15PM				8:15PM			
1:30PM				8:30PM			
1:45PM				8:45PM			

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/09/2009 07:44      0.0      0.0      0.0
2 06/09/2009 07:45      0.0      0.0      0.0
3 06/09/2009 07:46      0.0      0.0      0.0
4 06/09/2009 07:47      0.0      0.0      0.0
5 06/09/2009 07:48      0.0      0.0      0.0
6 06/09/2009 07:49      0.0      0.0      0.0
7 06/09/2009 07:50      0.0      0.0      0.0
8 06/09/2009 07:51      0.0      0.0      0.0
9 06/09/2009 07:52      0.0      0.0      0.0
10 06/09/2009 07:53      0.0      0.0      0.0
11 06/09/2009 07:54      0.0      0.0      0.0
12 06/09/2009 07:55      0.0      0.0      0.0
13 06/09/2009 07:56      0.0      0.0      0.0
14 06/09/2009 07:57      0.0      0.0      0.0
15 06/09/2009 07:58      0.0      0.0      0.0
16 06/09/2009 07:59      0.0      0.0      0.0
17 06/09/2009 08:00      0.0      0.0      0.0
18 06/09/2009 08:01      0.0      0.0      0.0
19 06/09/2009 08:02      0.0      0.0      0.0
20 06/09/2009 08:03      0.0      0.0      0.0
21 06/09/2009 08:04      0.0      0.0      0.0
22 06/09/2009 08:05      0.0      0.0      0.0
23 06/09/2009 08:06      0.0      0.0      0.0
24 06/09/2009 08:07      0.0      0.0      0.0
25 06/09/2009 08:08      0.0      0.0      0.0
26 06/09/2009 08:09      0.0      0.0      0.0
27 06/09/2009 08:10      0.0      0.0      0.0
28 06/09/2009 08:11      0.0      0.0      0.0
29 06/09/2009 08:12      0.0      0.0      0.0
30 06/09/2009 08:13      0.0      0.0      0.0
31 06/09/2009 08:14      0.0      0.0      0.0
32 06/09/2009 08:15      0.0      0.0      0.0
33 06/09/2009 08:16      0.0      0.0      0.0
34 06/09/2009 08:17      0.0      0.0      0.0
35 06/09/2009 08:18      0.0      0.0      0.0
36 06/09/2009 08:19      0.0      0.0      0.0
37 06/09/2009 08:20      0.0      0.0      0.0
38 06/09/2009 08:21      0.0      0.0      0.0
39 06/09/2009 08:22      0.0      0.0      0.0
40 06/09/2009 08:23      0.0      0.0      0.0
41 06/09/2009 08:24      0.0      0.0      0.0
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
42 06/09/2009 08:25      0.0         0.0          0.0
43 06/09/2009 08:26      0.0         0.0          0.0
44 06/09/2009 08:27      0.0         0.0          0.0
45 06/09/2009 08:28      0.0         0.0          0.0
46 06/09/2009 08:29      0.0         0.0          0.0
47 06/09/2009 08:30      0.0         0.0          0.0
48 06/09/2009 08:31      0.0         0.0          0.0
49 06/09/2009 08:32      0.0         0.0          0.0
50 06/09/2009 08:33      0.0         0.0          0.0
51 06/09/2009 08:34      0.0         0.0          0.0
52 06/09/2009 08:35      0.0         0.0          0.0
53 06/09/2009 08:36      0.0         0.0          0.0
54 06/09/2009 08:37      0.0         0.0          0.0
55 06/09/2009 08:38      0.0         0.0          0.0
56 06/09/2009 08:39      0.0         0.0          0.0
57 06/09/2009 08:40      0.0         0.0          0.0
58 06/09/2009 08:41      0.0         0.0          0.0
59 06/09/2009 08:42      0.0         0.0          0.0
60 06/09/2009 08:43      0.0         0.0          0.0
61 06/09/2009 08:44      0.0         0.0          0.0
62 06/09/2009 08:45      0.0         0.0          0.0
63 06/09/2009 08:46      0.0         0.0          0.0
64 06/09/2009 08:47      0.0         0.0          0.0
65 06/09/2009 08:48      0.0         0.0          0.0
66 06/09/2009 08:49      0.0         0.0          0.0
67 06/09/2009 08:50      0.0         0.0          0.0
68 06/09/2009 08:51      0.0         0.0          0.0
69 06/09/2009 08:52      0.0         0.0          0.0
70 06/09/2009 08:53      0.0         0.0          0.0
71 06/09/2009 08:54      0.0         0.0          0.0
72 06/09/2009 08:55      0.0         0.0          0.0
73 06/09/2009 08:56      0.0         0.0          0.0
74 06/09/2009 08:57      0.0         0.0          0.1
75 06/09/2009 08:58      0.0         0.0          0.0
76 06/09/2009 08:59      0.0         0.0          0.0
77 06/09/2009 09:00      0.0         0.0          0.0
78 06/09/2009 09:01      0.0         0.0          0.0
79 06/09/2009 09:02      0.0         0.0          0.0
80 06/09/2009 09:03      0.0         0.0          0.0
81 06/09/2009 09:04      0.0         0.0          0.0
82 06/09/2009 09:05      0.0         0.0          0.0
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
```

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

```
=====
```

```
=====
```

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

```
=====
```

83	06/09/2009 09:06	0.0	0.0	0.0
84	06/09/2009 09:07	0.0	0.0	0.0
85	06/09/2009 09:08	0.0	0.0	0.0
86	06/09/2009 09:09	0.0	0.0	0.0
87	06/09/2009 09:10	0.0	0.0	0.0
88	06/09/2009 09:11	0.0	0.0	0.0
89	06/09/2009 09:12	0.0	0.0	0.0
90	06/09/2009 09:13	0.0	0.0	0.0
91	06/09/2009 09:14	0.0	0.0	0.0
92	06/09/2009 09:15	0.0	0.0	0.1
93	06/09/2009 09:16	0.0	0.0	0.0
94	06/09/2009 09:17	0.0	0.0	0.0
95	06/09/2009 09:18	0.0	0.0	0.0
96	06/09/2009 09:19	0.0	0.0	0.0
97	06/09/2009 09:20	0.0	0.0	0.0
98	06/09/2009 09:21	0.0	0.0	0.0
99	06/09/2009 09:22	0.0	0.0	0.0
100	06/09/2009 09:23	0.0	0.0	0.0
101	06/09/2009 09:24	0.0	0.0	0.0
102	06/09/2009 09:25	0.0	0.0	0.0
103	06/09/2009 09:26	0.0	0.0	0.0
104	06/09/2009 09:27	0.0	0.0	0.0
105	06/09/2009 09:28	0.0	0.0	0.0
106	06/09/2009 09:29	0.0	0.0	0.0
107	06/09/2009 09:30	0.0	0.0	0.0
108	06/09/2009 09:31	0.0	0.0	0.0
109	06/09/2009 09:32	0.0	0.0	0.0
110	06/09/2009 09:33	0.0	0.0	0.2
111	06/09/2009 09:34	0.0	0.0	0.0
112	06/09/2009 09:35	0.0	0.0	0.0
113	06/09/2009 09:36	0.0	0.0	0.0
114	06/09/2009 09:37	0.0	0.0	0.0
115	06/09/2009 09:38	0.0	0.0	0.0
116	06/09/2009 09:39	0.0	0.0	0.0
117	06/09/2009 09:40	0.0	0.0	0.0
118	06/09/2009 09:41	0.0	0.0	0.0
119	06/09/2009 09:42	0.0	0.0	0.0
120	06/09/2009 09:43	0.0	0.0	0.0
121	06/09/2009 09:44	0.0	0.0	0.0
122	06/09/2009 09:45	0.0	0.0	0.0
123	06/09/2009 09:46	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0       5.0       5.0
=====
```

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

```
124 06/09/2009 09:47      0.0      0.0      0.0
125 06/09/2009 09:48      0.0      0.0      0.0
126 06/09/2009 09:49      0.0      0.0      0.0
127 06/09/2009 09:50      0.0      0.0      0.0
128 06/09/2009 09:51      0.0      0.0      0.0
129 06/09/2009 09:52      0.0      0.0      0.1
130 06/09/2009 09:53      0.0      0.0      0.1
131 06/09/2009 09:54      0.0      0.0      0.0
132 06/09/2009 09:55      0.0      0.0      0.0
133 06/09/2009 09:56      0.0      0.0      0.0
134 06/09/2009 09:57      0.0      0.0      0.1
135 06/09/2009 09:58      0.0      0.0      0.0
136 06/09/2009 09:59      0.0      0.0      0.0
137 06/09/2009 10:00      0.0      0.0      0.0
138 06/09/2009 10:01      0.0      0.0      0.0
139 06/09/2009 10:02      0.0      0.0      0.0
140 06/09/2009 10:03      0.0      0.0      0.1
141 06/09/2009 10:04      0.0      0.0      0.0
142 06/09/2009 10:05      0.0      0.0      0.0
143 06/09/2009 10:06      0.0      0.0      0.0
144 06/09/2009 10:07      0.0      0.0      0.0
145 06/09/2009 10:08      0.0      0.0      0.0
146 06/09/2009 10:09      0.0      0.0      0.0
147 06/09/2009 10:10      0.0      0.0      0.0
148 06/09/2009 10:11      0.0      0.0      0.0
149 06/09/2009 10:12      0.0      0.0      0.0
150 06/09/2009 10:13      0.0      0.0      0.0
151 06/09/2009 10:14      0.0      0.0      0.0
152 06/09/2009 10:15      0.0      0.0      0.0
153 06/09/2009 10:16      0.0      0.0      0.0
154 06/09/2009 10:17      0.0      0.0      0.1
155 06/09/2009 10:18      0.0      0.0      0.0
156 06/09/2009 10:19      0.0      0.0      0.1
157 06/09/2009 10:20      0.0      0.0      0.0
158 06/09/2009 10:21      0.0      0.0      0.1
159 06/09/2009 10:22      0.0      0.0      0.0
160 06/09/2009 10:23      0.0      0.0      0.0
161 06/09/2009 10:24      0.0      0.0      0.0
162 06/09/2009 10:25      0.0      0.0      0.0
163 06/09/2009 10:26      0.0      0.0      0.0
164 06/09/2009 10:27      0.0      0.0      0.0
```



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
165 06/09/2009 10:28      0.0        0.0         0.0
166 06/09/2009 10:29      0.0        0.0         0.0
167 06/09/2009 10:30      0.0        0.0         0.0
168 06/09/2009 10:31      0.0        0.0         0.0
169 06/09/2009 10:32      0.0        0.0         0.0
170 06/09/2009 10:33      0.0        0.0         0.0
171 06/09/2009 10:34      0.0        0.0         0.0
172 06/09/2009 10:35      0.0        0.0         0.0
173 06/09/2009 10:36      0.0        0.0         0.1
174 06/09/2009 10:37      0.0        0.0         0.0
175 06/09/2009 10:38      0.0        0.0         0.6
176 06/09/2009 10:39      0.0        0.0         0.1
177 06/09/2009 10:40      0.0        0.0         0.0
178 06/09/2009 10:41      0.0        0.0         0.3
179 06/09/2009 10:42      0.0        0.0         0.3
180 06/09/2009 10:43      0.0        0.0         0.2
181 06/09/2009 10:44      0.0        0.0         0.2
182 06/09/2009 10:45      0.0        0.0         0.6
183 06/09/2009 10:46      0.0        0.0         0.1
184 06/09/2009 10:47      0.0        0.0         0.2
185 06/09/2009 10:48      0.0        0.0         0.2
186 06/09/2009 10:49      0.0        0.0         0.1
187 06/09/2009 10:50      0.0        0.0         0.1
188 06/09/2009 10:51      0.0        0.0         0.3
189 06/09/2009 10:52      0.0        0.0         0.1
190 06/09/2009 10:53      0.0        0.0         0.1
191 06/09/2009 10:54      0.0        0.0         0.1
192 06/09/2009 10:55      0.0        0.0         0.1
193 06/09/2009 10:56      0.0        0.0         0.1
194 06/09/2009 10:57      0.0        0.0         0.1
195 06/09/2009 10:58      0.0        0.0         0.1
196 06/09/2009 10:59      0.0        0.0         0.1
197 06/09/2009 11:00      0.0        0.0         0.1
198 06/09/2009 11:01      0.0        0.0         0.1
199 06/09/2009 11:02      0.0        0.0         0.1
200 06/09/2009 11:03      0.0        0.0         0.2
201 06/09/2009 11:04      0.0        0.0         0.1
202 06/09/2009 11:05      0.0        0.0         0.1
203 06/09/2009 11:06      0.0        0.0         0.1
204 06/09/2009 11:07      0.0        0.0         0.1
205 06/09/2009 11:08      0.0        0.0         0.1
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
206 06/09/2009 11:09      0.0        0.0        0.1
207 06/09/2009 11:10      0.0        0.0        0.2
208 06/09/2009 11:11      0.0        0.0        0.2
209 06/09/2009 11:12      0.0        0.1        0.4
210 06/09/2009 11:13      0.0        0.0        0.1
211 06/09/2009 11:14      0.0        0.0        0.1
212 06/09/2009 11:15      0.0        0.1        0.3
213 06/09/2009 11:16      0.0        0.1        0.3
214 06/09/2009 11:17      0.1        0.1        0.2
215 06/09/2009 11:18      0.0        0.1        0.2
216 06/09/2009 11:19      0.0        0.1        0.2
217 06/09/2009 11:20      0.1        0.1        0.4
218 06/09/2009 11:21      0.1        0.1        0.2
219 06/09/2009 11:22      0.1        0.1        0.3
220 06/09/2009 11:23      0.0        0.1        0.4
221 06/09/2009 11:24      0.0        0.0        0.1
222 06/09/2009 11:25      0.1        0.1        0.1
223 06/09/2009 11:26      0.0        0.1        0.2
224 06/09/2009 11:27      0.0        0.1        0.2
225 06/09/2009 11:28      0.0        0.1        0.2
226 06/09/2009 11:29      0.0        0.1        0.3
227 06/09/2009 11:30      0.0        0.1        0.8
228 06/09/2009 11:31      0.1        0.1        0.2
229 06/09/2009 11:32      0.0        0.1        0.2
230 06/09/2009 11:33      0.1        0.1        0.2
231 06/09/2009 11:34      0.0        0.1        0.2
232 06/09/2009 11:35      0.1        0.1        0.2
233 06/09/2009 11:36      0.0        0.0        0.2
234 06/09/2009 11:37      0.1        0.1        0.2
235 06/09/2009 11:38      0.1        0.1        0.2
236 06/09/2009 11:39      0.1        0.1        0.2
237 06/09/2009 11:40      0.1        0.1        0.2
238 06/09/2009 11:41      0.1        0.1        0.2
239 06/09/2009 11:42      0.1        0.1        0.2
240 06/09/2009 11:43      0.1        0.1        0.2
241 06/09/2009 11:44      0.1        0.1        0.2
242 06/09/2009 11:45      0.0        0.1        0.3
243 06/09/2009 11:46      0.1        0.1        0.2
244 06/09/2009 11:47      0.0        0.1        0.2
245 06/09/2009 11:48      0.1        0.1        0.2
246 06/09/2009 11:49      0.1        0.1        0.2
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
247 06/09/2009 11:50      0.1      0.1      0.2
248 06/09/2009 11:51      0.1      0.1      0.2
249 06/09/2009 11:52      0.1      0.1      0.2
250 06/09/2009 11:53      0.1      0.1      0.2
251 06/09/2009 11:54      0.1      0.1      0.2
252 06/09/2009 11:55      0.1      0.1      0.2
253 06/09/2009 11:56      0.1      0.1      0.3
254 06/09/2009 11:57      0.1      0.1      0.2
255 06/09/2009 11:58      0.1      0.1      0.2
256 06/09/2009 11:59      0.1      0.1      0.2
257 06/09/2009 12:00      0.1      0.1      0.2
258 06/09/2009 12:01      0.0      0.1      0.2
259 06/09/2009 12:02      0.1      0.1      0.2
260 06/09/2009 12:03      0.1      0.1      0.2
261 06/09/2009 12:04      0.1      0.1      0.2
262 06/09/2009 12:05      0.1      0.1      0.2
263 06/09/2009 12:06      0.1      0.1      0.2
264 06/09/2009 12:07      0.1      0.1      0.2
265 06/09/2009 12:08      0.1      0.1      0.2
266 06/09/2009 12:09      0.1      0.1      0.2
267 06/09/2009 12:10      0.1      0.1      0.2
268 06/09/2009 12:11      0.1      0.1      0.2
269 06/09/2009 12:12      0.1      0.1      0.2
270 06/09/2009 12:13      0.1      0.1      0.2
271 06/09/2009 12:14      0.1      0.1      0.2
272 06/09/2009 12:15      0.1      0.1      0.2
273 06/09/2009 12:16      0.1      0.2      0.4
274 06/09/2009 12:17      0.1      0.1      0.2
275 06/09/2009 12:18      0.1      0.1      0.2
276 06/09/2009 12:19      0.1      0.1      0.3
277 06/09/2009 12:20      0.1      0.1      0.3
278 06/09/2009 12:21      0.1      0.1      0.3
279 06/09/2009 12:22      0.1      0.1      0.3
280 06/09/2009 12:23      0.1      0.1      0.2
281 06/09/2009 12:24      0.1      0.1      0.2
282 06/09/2009 12:25      0.1      0.1      0.2
283 06/09/2009 12:26      0.1      0.1      0.4
284 06/09/2009 12:27      0.1      0.1      0.2
285 06/09/2009 12:28      0.1      0.1      0.2
286 06/09/2009 12:29      0.1      0.1      0.2
287 06/09/2009 12:30      0.1      0.1      0.2
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
288 06/09/2009 12:31    0.1      0.2      0.4
289 06/09/2009 12:32    0.2      0.2      0.4
290 06/09/2009 12:33    0.1      0.1      0.2
291 06/09/2009 12:34    0.1      0.1      0.4
292 06/09/2009 12:35    0.1      0.1      0.2
293 06/09/2009 12:36    0.1      0.1      0.2
294 06/09/2009 12:37    0.1      0.1      0.2
295 06/09/2009 12:38    0.1      0.1      0.2
296 06/09/2009 12:39    0.1      0.1      0.2
297 06/09/2009 12:40    0.1      0.1      0.3
298 06/09/2009 12:41    0.1      0.1      0.2
299 06/09/2009 12:42    0.1      0.1      0.2
300 06/09/2009 12:43    0.1      0.1      0.3
301 06/09/2009 12:44    0.1      0.1      0.2
302 06/09/2009 12:45    0.1      0.1      0.2
303 06/09/2009 12:46    0.1      0.1      0.2
304 06/09/2009 12:47    0.1      0.2      0.3
305 06/09/2009 12:48    0.1      0.2      0.3
306 06/09/2009 12:49    0.1      0.1      0.3
307 06/09/2009 12:50    0.1      0.2      0.4
308 06/09/2009 12:51    0.1      0.2      1.0
309 06/09/2009 12:52    0.1      0.4      1.2
310 06/09/2009 12:53    0.1      0.2      0.5
311 06/09/2009 12:54    0.1      0.1      0.3
312 06/09/2009 12:55    0.1      0.2      0.3
313 06/09/2009 12:56    0.1      0.2      0.5
314 06/09/2009 12:57    0.1      0.2      0.3
315 06/09/2009 12:58    0.1      0.2      0.5
316 06/09/2009 12:59    0.1      0.2      0.5
317 06/09/2009 13:00    0.1      0.2      0.5
318 06/09/2009 13:01    0.1      0.2      0.5
319 06/09/2009 13:02    0.2      0.2      0.5
320 06/09/2009 13:03    0.1      0.4      0.9
321 06/09/2009 13:04    0.1      0.1      0.3
322 06/09/2009 13:05    0.1      0.2      0.4
323 06/09/2009 13:06    0.1      0.2      0.5
324 06/09/2009 13:07    0.1      0.2      0.7
325 06/09/2009 13:08    0.1      0.2      0.5
326 06/09/2009 13:09    0.1      0.1      0.3
327 06/09/2009 13:10    0.1      0.2      0.3
328 06/09/2009 13:11    0.1      0.2      0.3
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
329 06/09/2009 13:12    0.1      0.2      0.3
330 06/09/2009 13:13    0.1      0.2      0.3
331 06/09/2009 13:14    0.2      0.2      0.3
332 06/09/2009 13:15    0.2      0.2      0.4
333 06/09/2009 13:16    0.1      0.2      0.3
334 06/09/2009 13:17    0.2      0.2      0.7
335 06/09/2009 13:18    0.2      0.2      0.5
336 06/09/2009 13:19    0.1      0.2      0.4
337 06/09/2009 13:20    0.2      0.3      0.9
338 06/09/2009 13:21    0.2      0.2      0.5
339 06/09/2009 13:22    0.2      0.2      0.4
340 06/09/2009 13:23    0.2      0.2      0.6
341 06/09/2009 13:24    0.2      0.2      0.3
342 06/09/2009 13:25    0.0      0.2      0.3
343 06/09/2009 13:26    0.2      0.2      0.3
344 06/09/2009 13:27    0.2      0.3      0.6
345 06/09/2009 13:28    0.2      0.2      0.4
346 06/09/2009 13:29    0.2      0.2      0.3
347 06/09/2009 13:30    0.2      0.2      0.3
348 06/09/2009 13:31    0.2      0.2      0.3
349 06/09/2009 13:32    0.2      0.2      0.3
350 06/09/2009 13:33    0.2      0.2      0.3
351 06/09/2009 13:34    0.2      0.2      0.3
352 06/09/2009 13:35    0.2      0.2      0.3
353 06/09/2009 13:36    0.2      0.2      0.3
354 06/09/2009 13:37    0.2      0.3      0.4
355 06/09/2009 13:38    0.2      0.2      0.4
356 06/09/2009 13:39    0.2      0.2      0.4
357 06/09/2009 13:40    0.3      0.3      0.5
358 06/09/2009 13:41    0.3      0.3      0.4
359 06/09/2009 13:42    0.3      0.3      0.4
360 06/09/2009 13:43    0.2      0.3      0.5
361 06/09/2009 13:44    0.3      0.3      0.5
362 06/09/2009 13:45    0.3      0.3      0.4
363 06/09/2009 13:46    0.2      0.3      0.4
364 06/09/2009 13:47    0.3      0.4      0.5
365 06/09/2009 13:48    0.4      0.4      0.5
366 06/09/2009 13:49    0.4      0.5      0.6
367 06/09/2009 13:50    0.5      0.5      0.6
368 06/09/2009 13:51    0.5      0.5      0.6
369 06/09/2009 13:52    0.3      0.4      0.6
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
370 06/09/2009 13:53      0.2         0.3          0.4
371 06/09/2009 13:54      0.2         0.3          0.4
372 06/09/2009 13:55      0.2         0.3          0.4
373 06/09/2009 13:56      0.2         0.2          0.3
374 06/09/2009 13:57      0.2         0.2          0.3
375 06/09/2009 13:58      0.2         0.2          0.3
376 06/09/2009 13:59      0.2         0.2          0.3
377 06/09/2009 14:00      0.2         0.2          0.3
378 06/09/2009 14:01      0.2         0.2          0.3
379 06/09/2009 14:02      0.2         0.2          0.3
380 06/09/2009 14:03      0.2         0.2          0.3
381 06/09/2009 14:04      0.2         0.2          0.3
382 06/09/2009 14:05      0.2         0.2          0.3
383 06/09/2009 14:06      0.2         0.2          0.3
384 06/09/2009 14:07      0.3         0.3          0.4
385 06/09/2009 14:08      0.2         0.2          0.3
386 06/09/2009 14:09      0.1         0.2          0.4
387 06/09/2009 14:10      0.1         0.1          0.3
388 06/09/2009 14:11      0.1         0.1          0.3
389 06/09/2009 14:12      0.1         0.1          0.3
390 06/09/2009 14:13      0.1         0.1          0.3
391 06/09/2009 14:14      0.1         0.2          0.3
392 06/09/2009 14:15      0.2         0.2          0.3
393 06/09/2009 14:16      0.2         0.7          3.7
394 06/09/2009 14:17      0.2         0.4          1.8
395 06/09/2009 14:18      0.2         0.2          0.4
396 06/09/2009 14:19      0.2         0.2          0.5
397 06/09/2009 14:20      0.2         0.2          0.5
398 06/09/2009 14:21      0.0         0.3          1.2
399 06/09/2009 14:22      0.0         0.2          0.6
400 06/09/2009 14:23      0.1         0.2          0.4
401 06/09/2009 14:24      0.2         0.2          0.4
402 06/09/2009 14:25      0.1         0.2          0.3
403 06/09/2009 14:26      0.1         0.1          0.3
404 06/09/2009 14:27      0.1         0.2          0.3
405 06/09/2009 14:28      0.1         0.1          0.2
406 06/09/2009 14:29      0.1         0.1          0.2
407 06/09/2009 14:30      0.2         0.2          0.3
408 06/09/2009 14:31      0.1         0.1          0.2
409 06/09/2009 14:32      0.1         0.2          0.6
410 06/09/2009 14:33      0.1         0.2          0.7
```



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 465 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
411 06/09/2009 14:34    0.1      0.1      0.2
412 06/09/2009 14:35    0.1      0.1      0.3
413 06/09/2009 14:36    0.1      0.2      0.3
414 06/09/2009 14:37    0.1      0.1      0.3
415 06/09/2009 14:38    0.1      0.1      0.2
416 06/09/2009 14:39    0.1      0.2      0.8
417 06/09/2009 14:40    0.1      0.2      0.6
418 06/09/2009 14:41    0.1      0.2      0.6
419 06/09/2009 14:42    0.1      0.2      0.6
420 06/09/2009 14:43    0.1      0.2      0.5
421 06/09/2009 14:44    0.2      0.3      1.1
422 06/09/2009 14:45    0.1      0.3      0.8
423 06/09/2009 14:46    0.1      0.2      0.3
424 06/09/2009 14:47    0.1      0.1      0.4
425 06/09/2009 14:48    0.1      0.1      0.8
426 06/09/2009 14:49    0.1      0.1      0.2
427 06/09/2009 14:50    0.1      0.2      0.5
428 06/09/2009 14:51    0.1      0.1      0.3
429 06/09/2009 14:52    0.1      0.1      0.3
430 06/09/2009 14:53    0.1      0.1      0.2
431 06/09/2009 14:54    0.1      0.1      0.5
432 06/09/2009 14:55    0.1      0.2      0.7
433 06/09/2009 14:56    0.1      0.1      0.6
434 06/09/2009 14:57    0.1      0.1      0.6
435 06/09/2009 14:58    0.1      0.2      0.8
436 06/09/2009 14:59    0.1      0.1      0.5
437 06/09/2009 15:00    0.0      0.1      0.4
438 06/09/2009 15:01    0.1      0.1      0.2
439 06/09/2009 15:02    0.0      0.0      0.3
440 06/09/2009 15:03    0.0      0.1      0.2
441 06/09/2009 15:04    0.0      0.1      0.3
442 06/09/2009 15:05    0.0      0.1      0.3
443 06/09/2009 15:06    0.1      0.1      0.2
444 06/09/2009 15:07    0.1      0.1      0.2
445 06/09/2009 15:08    0.1      0.1      0.2
446 06/09/2009 15:09    0.1      0.1      0.8
447 06/09/2009 15:10    0.1      0.1      0.3
448 06/09/2009 15:11    0.1      0.1      0.2
449 06/09/2009 15:12    0.1      0.1      0.6
450 06/09/2009 15:13    0.1      0.1      0.2
451 06/09/2009 15:14    0.1      0.1      0.5
```

Instrument: MiniRAE 2000 (PGM7600)      Serial Number: 013459  
User ID: 00000001      Site ID: Spot Ck2  
Data Points: 465      Gas Name: Isobutylene      Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

452	06/09/2009 15:15	0.0	0.1	0.2
453	06/09/2009 15:16	0.1	0.1	0.4
454	06/09/2009 15:17	0.1	0.1	0.4
455	06/09/2009 15:18	0.1	0.1	0.4
456	06/09/2009 15:19	0.1	0.1	0.2
457	06/09/2009 15:20	0.1	0.1	0.2
458	06/09/2009 15:21	0.1	0.1	0.3
459	06/09/2009 15:22	0.1	0.2	0.4
460	06/09/2009 15:23	0.1	0.1	0.3
461	06/09/2009 15:24	0.1	0.1	0.2
462	06/09/2009 15:25	0.1	0.1	0.2
463	06/09/2009 15:26	0.1	0.1	0.4
464	06/09/2009 15:27	0.1	0.1	0.3
465	06/09/2009 15:28	0.0	0.1	0.6

```
=====
```

User ID: 00000001 Site ID: Station2  
 Data Points: 499 Gas Name: Isobutylene Sample Period: 60 sec  
 Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/09/2009 07:04      0.0        0.0        0.0
2 06/09/2009 07:05      0.0        0.0        0.0
3 06/09/2009 07:06      0.0        0.0        0.0
4 06/09/2009 07:07      0.0        0.0        0.0
5 06/09/2009 07:08      0.0        0.0        0.0
6 06/09/2009 07:09      0.0        0.0        0.0
7 06/09/2009 07:10      0.0        0.0        0.0
8 06/09/2009 07:11      0.0        0.0        0.0
9 06/09/2009 07:12      0.0        0.0        0.0
10 06/09/2009 07:13      0.0        0.0        0.0
11 06/09/2009 07:14      0.0        0.0        0.0
12 06/09/2009 07:15      0.0        0.0        0.0
13 06/09/2009 07:16      0.0        0.0        0.0
14 06/09/2009 07:17      0.0        0.0        0.0
15 06/09/2009 07:18      0.0        0.0        0.0
16 06/09/2009 07:19      0.0        0.0        0.0
17 06/09/2009 07:20      0.0        0.0        0.0
18 06/09/2009 07:21      0.0        0.0        0.0
19 06/09/2009 07:22      0.0        0.0        0.0
20 06/09/2009 07:23      0.0        0.0        0.0
21 06/09/2009 07:24      0.0        0.0        0.0
22 06/09/2009 07:25      0.0        0.0        0.0
23 06/09/2009 07:26      0.0        0.0        0.0
24 06/09/2009 07:27      0.0        0.0        0.0
25 06/09/2009 07:28      0.0        0.0        0.0
26 06/09/2009 07:29      0.0        0.0        0.0
27 06/09/2009 07:30      0.0        0.0        0.0
28 06/09/2009 07:31      0.0        0.0        0.0
29 06/09/2009 07:32      0.0        0.0        0.1
30 06/09/2009 07:33      0.0        0.0        0.1
31 06/09/2009 07:34      0.0        0.0        0.0
32 06/09/2009 07:35      0.0        0.0        0.0
33 06/09/2009 07:36      0.0        0.0        0.0
34 06/09/2009 07:37      0.0        0.0        0.0
35 06/09/2009 07:38      0.0        0.0        0.0
36 06/09/2009 07:39      0.0        0.0        0.0
37 06/09/2009 07:40      0.0        0.0        0.1
38 06/09/2009 07:41      0.0        0.0        0.1
39 06/09/2009 07:42      0.0        0.0        0.1
40 06/09/2009 07:43      0.0        0.0        0.1
41 06/09/2009 07:44      0.0        0.0        0.1
```

42	06/09/2009 07:45	0.0	0.0	0.1
43	06/09/2009 07:46	0.0	0.0	0.1
44	06/09/2009 07:47	0.0	0.0	0.1
45	06/09/2009 07:48	0.0	0.0	0.1
46	06/09/2009 07:49	0.0	0.0	0.1
47	06/09/2009 07:50	0.0	0.0	0.1
48	06/09/2009 07:51	0.0	0.0	0.2
49	06/09/2009 07:52	0.0	0.0	0.2
50	06/09/2009 07:53	0.0	0.0	0.1
51	06/09/2009 07:54	0.0	0.0	0.1
52	06/09/2009 07:55	0.0	0.0	0.2
53	06/09/2009 07:56	0.0	0.0	0.2
54	06/09/2009 07:57	0.0	0.0	0.2
55	06/09/2009 07:58	0.0	0.0	0.2
56	06/09/2009 07:59	0.0	0.1	0.2
57	06/09/2009 08:00	0.0	0.0	0.2
58	06/09/2009 08:01	0.0	0.0	0.2
59	06/09/2009 08:02	0.0	0.0	0.1
60	06/09/2009 08:03	0.0	0.0	0.1
61	06/09/2009 08:04	0.0	0.0	0.1
62	06/09/2009 08:05	0.0	0.0	0.2
63	06/09/2009 08:06	0.0	0.0	0.2
64	06/09/2009 08:07	0.0	0.1	0.2
65	06/09/2009 08:08	0.0	0.1	0.2
66	06/09/2009 08:09	0.1	0.1	0.2
67	06/09/2009 08:10	0.0	0.1	0.2
68	06/09/2009 08:11	0.1	0.1	0.2
69	06/09/2009 08:12	0.1	0.1	0.2
70	06/09/2009 08:13	0.1	0.1	0.2
71	06/09/2009 08:14	0.1	0.1	0.2
72	06/09/2009 08:15	0.1	0.1	0.2
73	06/09/2009 08:16	0.1	0.1	0.2
74	06/09/2009 08:17	0.1	0.1	0.3
75	06/09/2009 08:18	0.1	0.1	0.3
76	06/09/2009 08:19	0.1	0.1	0.3
77	06/09/2009 08:20	0.1	0.2	0.3
78	06/09/2009 08:21	0.1	0.1	0.3
79	06/09/2009 08:22	0.1	0.1	0.2
80	06/09/2009 08:23	0.0	0.1	0.2
81	06/09/2009 08:24	0.1	0.1	0.3
82	06/09/2009 08:25	0.1	0.1	0.3
83	06/09/2009 08:26	0.1	0.1	0.3
84	06/09/2009 08:27	0.1	0.1	0.3
85	06/09/2009 08:28	0.1	0.1	0.3
86	06/09/2009 08:29	0.1	0.1	0.2
87	06/09/2009 08:30	0.1	0.1	0.3
88	06/09/2009 08:31	0.1	0.2	0.3
89	06/09/2009 08:32	0.1	0.2	0.3
90	06/09/2009 08:33	0.1	0.2	0.3
91	06/09/2009 08:34	0.2	0.2	0.3
92	06/09/2009 08:35	0.2	0.2	0.3
93	06/09/2009 08:36	0.1	0.2	0.3

94	06/09/2009 08:37	0.1	0.2	0.3
95	06/09/2009 08:38	0.1	0.1	0.3
96	06/09/2009 08:39	0.1	0.1	0.2
97	06/09/2009 08:40	0.1	0.1	0.3
98	06/09/2009 08:41	0.1	0.1	0.2
99	06/09/2009 08:42	0.1	0.1	0.2
100	06/09/2009 08:43	0.1	0.1	0.2
101	06/09/2009 08:44	0.1	0.1	0.3
102	06/09/2009 08:45	0.1	0.2	0.3
103	06/09/2009 08:46	0.2	0.2	0.3
104	06/09/2009 08:47	0.1	0.2	0.3
105	06/09/2009 08:48	0.1	0.1	0.2
106	06/09/2009 08:49	0.1	0.1	0.3
107	06/09/2009 08:50	0.1	0.2	0.3
108	06/09/2009 08:51	0.1	0.2	0.3
109	06/09/2009 08:52	0.2	0.2	0.3
110	06/09/2009 08:53	0.1	0.2	0.3
111	06/09/2009 08:54	0.1	0.2	0.3
112	06/09/2009 08:55	0.2	0.2	0.3
113	06/09/2009 08:56	0.1	0.2	0.3
114	06/09/2009 08:57	0.1	0.2	0.3
115	06/09/2009 08:58	0.2	0.2	0.3
116	06/09/2009 08:59	0.2	0.2	0.3
117	06/09/2009 09:00	0.2	0.2	0.3
118	06/09/2009 09:01	0.2	0.2	0.3
119	06/09/2009 09:02	0.2	0.2	0.3
120	06/09/2009 09:03	0.2	0.2	0.3
121	06/09/2009 09:04	0.2	0.2	0.3
122	06/09/2009 09:05	0.2	0.2	0.3
123	06/09/2009 09:06	0.2	0.2	0.3
124	06/09/2009 09:07	0.2	0.2	0.3
125	06/09/2009 09:08	0.2	0.2	0.3
126	06/09/2009 09:09	0.1	0.2	0.3
127	06/09/2009 09:10	0.2	0.2	0.3
128	06/09/2009 09:11	0.2	0.2	0.3
129	06/09/2009 09:12	0.2	0.2	0.3
130	06/09/2009 09:13	0.2	0.2	0.3
131	06/09/2009 09:14	0.2	0.2	0.3
132	06/09/2009 09:15	0.2	0.2	0.3
133	06/09/2009 09:16	0.2	0.2	0.3
134	06/09/2009 09:17	0.2	0.2	0.3
135	06/09/2009 09:18	0.2	0.2	0.3
136	06/09/2009 09:19	0.2	0.2	0.4
137	06/09/2009 09:20	0.2	0.2	0.3
138	06/09/2009 09:21	0.2	0.2	0.3
139	06/09/2009 09:22	0.2	0.2	0.3
140	06/09/2009 09:23	0.2	0.2	0.3
141	06/09/2009 09:24	0.2	0.2	0.3
142	06/09/2009 09:25	0.2	0.2	0.3
143	06/09/2009 09:26	0.2	0.2	0.3
144	06/09/2009 09:27	0.2	0.2	0.3
145	06/09/2009 09:28	0.2	0.2	0.4

146	06/09/2009 09:29	0.2	0.2	0.3
147	06/09/2009 09:30	0.2	0.2	0.4
148	06/09/2009 09:31	0.3	0.3	0.4
149	06/09/2009 09:32	0.3	0.3	0.3
150	06/09/2009 09:33	0.2	0.2	0.3
151	06/09/2009 09:34	0.2	0.2	0.3
152	06/09/2009 09:35	0.2	0.2	0.3
153	06/09/2009 09:36	0.2	0.2	0.3
154	06/09/2009 09:37	0.3	0.3	0.4
155	06/09/2009 09:38	0.2	0.2	0.3
156	06/09/2009 09:39	0.3	0.3	0.3
157	06/09/2009 09:40	0.2	0.2	0.3
158	06/09/2009 09:41	0.2	0.2	0.3
159	06/09/2009 09:42	0.2	0.2	0.3
160	06/09/2009 09:43	0.2	0.2	0.3
161	06/09/2009 09:44	0.2	0.2	0.3
162	06/09/2009 09:45	0.2	0.2	0.3
163	06/09/2009 09:46	0.2	0.2	0.3
164	06/09/2009 09:47	0.2	0.2	0.3
165	06/09/2009 09:48	0.2	0.2	0.3
166	06/09/2009 09:49	0.2	0.2	0.3
167	06/09/2009 09:50	0.2	0.2	0.3
168	06/09/2009 09:51	0.2	0.2	0.3
169	06/09/2009 09:52	0.2	0.2	0.3
170	06/09/2009 09:53	0.3	0.3	0.3
171	06/09/2009 09:54	0.2	0.2	0.3
172	06/09/2009 09:55	0.3	0.3	0.3
173	06/09/2009 09:56	0.3	0.3	0.3
174	06/09/2009 09:57	0.3	0.3	0.3
175	06/09/2009 09:58	0.3	0.3	0.3
176	06/09/2009 09:59	0.3	0.3	0.3
177	06/09/2009 10:00	0.3	0.3	0.3
178	06/09/2009 10:01	0.3	0.3	0.3
179	06/09/2009 10:02	0.3	0.3	0.3
180	06/09/2009 10:03	0.3	0.3	0.3
181	06/09/2009 10:04	0.3	0.3	0.3
182	06/09/2009 10:05	0.3	0.3	0.4
183	06/09/2009 10:06	0.3	0.3	0.5
184	06/09/2009 10:07	0.3	0.3	0.3
185	06/09/2009 10:08	0.3	0.3	0.3
186	06/09/2009 10:09	0.3	0.3	0.4
187	06/09/2009 10:10	0.3	0.3	0.4
188	06/09/2009 10:11	0.3	0.3	0.3
189	06/09/2009 10:12	0.2	0.2	0.3
190	06/09/2009 10:13	0.3	0.3	0.3
191	06/09/2009 10:14	0.3	0.3	0.4
192	06/09/2009 10:15	0.3	0.3	0.3
193	06/09/2009 10:16	0.2	0.2	0.3
194	06/09/2009 10:17	0.2	0.2	0.3
195	06/09/2009 10:18	0.2	0.2	0.3
196	06/09/2009 10:19	0.3	0.3	0.3
197	06/09/2009 10:20	0.3	0.3	0.3



198	06/09/2009 10:21	0.2	0.2	0.3
199	06/09/2009 10:22	0.2	0.2	0.4
200	06/09/2009 10:23	0.3	0.3	0.3
201	06/09/2009 10:24	0.2	0.3	0.4
202	06/09/2009 10:25	0.3	0.3	0.3
203	06/09/2009 10:26	0.3	0.3	0.3
204	06/09/2009 10:27	0.3	0.3	0.3
205	06/09/2009 10:28	0.3	0.3	0.3
206	06/09/2009 10:29	0.3	0.3	0.3
207	06/09/2009 10:30	0.3	0.3	0.4
208	06/09/2009 10:31	0.3	0.3	0.4
209	06/09/2009 10:32	0.3	0.3	0.4
210	06/09/2009 10:33	0.2	0.2	0.3
211	06/09/2009 10:34	0.2	0.2	0.4
212	06/09/2009 10:35	0.2	0.2	0.4
213	06/09/2009 10:36	0.2	0.3	0.4
214	06/09/2009 10:37	0.3	0.3	0.4
215	06/09/2009 10:38	0.3	0.3	0.4
216	06/09/2009 10:39	0.3	0.3	0.4
217	06/09/2009 10:40	0.3	0.3	0.4
218	06/09/2009 10:41	0.3	0.3	0.4
219	06/09/2009 10:42	0.3	0.3	0.4
220	06/09/2009 10:43	0.3	0.3	0.4
221	06/09/2009 10:44	0.3	0.3	0.4
222	06/09/2009 10:45	0.3	0.3	0.4
223	06/09/2009 10:46	0.3	0.3	0.4
224	06/09/2009 10:47	0.3	0.3	0.5
225	06/09/2009 10:48	0.4	0.4	1.0
226	06/09/2009 10:49	0.3	0.3	0.4
227	06/09/2009 10:50	0.3	0.3	0.4
228	06/09/2009 10:51	0.3	0.4	0.6
229	06/09/2009 10:52	0.3	0.3	0.4
230	06/09/2009 10:53	0.3	0.3	0.5
231	06/09/2009 10:54	0.3	0.4	0.5
232	06/09/2009 10:55	0.3	0.4	0.5
233	06/09/2009 10:56	0.3	0.4	0.6
234	06/09/2009 10:57	0.3	0.3	0.4
235	06/09/2009 10:58	0.3	0.3	0.5
236	06/09/2009 10:59	0.3	0.3	0.4
237	06/09/2009 11:00	0.3	0.3	0.4
238	06/09/2009 11:01	0.3	0.3	0.4
239	06/09/2009 11:02	0.3	0.3	0.4
240	06/09/2009 11:03	0.3	0.3	0.4
241	06/09/2009 11:04	0.3	0.3	0.4
242	06/09/2009 11:05	0.3	0.3	0.4
243	06/09/2009 11:06	0.3	0.3	0.4
244	06/09/2009 11:07	0.3	0.3	0.4
245	06/09/2009 11:08	0.3	0.3	0.4
246	06/09/2009 11:09	0.3	0.3	0.4
247	06/09/2009 11:10	0.3	0.3	0.4
248	06/09/2009 11:11	0.3	0.3	0.4
249	06/09/2009 11:12	0.3	0.3	0.4

250	06/09/2009 11:13	0.2	0.3	0.4
251	06/09/2009 11:14	0.3	0.3	0.4
252	06/09/2009 11:15	0.3	0.3	0.5
253	06/09/2009 11:16	0.2	0.3	0.4
254	06/09/2009 11:17	0.2	0.3	0.4
255	06/09/2009 11:18	0.2	0.3	0.5
256	06/09/2009 11:19	0.3	0.3	0.5
257	06/09/2009 11:20	0.3	0.3	0.5
258	06/09/2009 11:21	0.3	0.3	0.4
259	06/09/2009 11:22	0.3	0.3	0.5
260	06/09/2009 11:23	0.3	0.4	0.6
261	06/09/2009 11:24	0.3	0.4	0.5
262	06/09/2009 11:25	0.3	0.4	0.8
263	06/09/2009 11:26	0.3	0.3	0.5
264	06/09/2009 11:27	0.3	0.5	1.3
265	06/09/2009 11:28	0.3	0.5	0.8
266	06/09/2009 11:29	0.3	0.4	0.5
267	06/09/2009 11:30	0.3	0.3	0.4
268	06/09/2009 11:31	0.3	0.3	0.4
269	06/09/2009 11:32	0.3	0.3	0.4
270	06/09/2009 11:33	0.3	0.4	0.5
271	06/09/2009 11:34	0.3	0.3	0.5
272	06/09/2009 11:35	0.3	0.3	0.4
273	06/09/2009 11:36	0.3	0.3	0.4
274	06/09/2009 11:37	0.3	0.3	0.4
275	06/09/2009 11:38	0.3	0.3	0.5
276	06/09/2009 11:39	0.3	0.3	0.4
277	06/09/2009 11:40	0.3	0.3	0.4
278	06/09/2009 11:41	0.3	0.3	0.4
279	06/09/2009 11:42	0.3	0.3	0.4
280	06/09/2009 11:43	0.3	0.3	0.4
281	06/09/2009 11:44	0.3	0.3	0.4
282	06/09/2009 11:45	0.3	0.3	0.4
283	06/09/2009 11:46	0.3	0.3	0.4
284	06/09/2009 11:47	0.3	0.3	0.4
285	06/09/2009 11:48	0.3	0.3	0.4
286	06/09/2009 11:49	0.3	0.4	0.5
287	06/09/2009 11:50	0.3	0.3	0.4
288	06/09/2009 11:51	0.3	0.4	0.6
289	06/09/2009 11:52	0.4	0.4	0.5
290	06/09/2009 11:53	0.3	0.3	0.4
291	06/09/2009 11:54	0.3	0.3	0.4
292	06/09/2009 11:55	0.3	0.3	0.4
293	06/09/2009 11:56	0.3	0.3	0.4
294	06/09/2009 11:57	0.3	0.3	0.4
295	06/09/2009 11:58	0.3	0.3	0.5
296	06/09/2009 11:59	0.3	0.3	0.4
297	06/09/2009 12:00	0.3	0.3	0.4
298	06/09/2009 12:01	0.3	0.4	0.6
299	06/09/2009 12:02	0.3	0.4	0.7
300	06/09/2009 12:03	0.3	0.4	0.6
301	06/09/2009 12:04	0.4	0.4	0.5

302	06/09/2009 12:05	0.3	0.3	0.5
303	06/09/2009 12:06	0.3	0.3	0.4
304	06/09/2009 12:07	0.3	0.3	0.4
305	06/09/2009 12:08	0.3	0.3	0.4
306	06/09/2009 12:09	0.4	0.4	0.8
307	06/09/2009 12:10	0.3	0.3	0.6
308	06/09/2009 12:11	0.3	0.3	0.4
309	06/09/2009 12:12	0.3	0.4	0.6
310	06/09/2009 12:13	0.3	0.3	0.4
311	06/09/2009 12:14	0.3	0.3	0.4
312	06/09/2009 12:15	0.3	0.3	0.4
313	06/09/2009 12:16	0.3	0.3	0.4
314	06/09/2009 12:17	0.3	0.3	0.4
315	06/09/2009 12:18	0.3	0.3	0.5
316	06/09/2009 12:19	0.3	0.3	0.5
317	06/09/2009 12:20	0.3	0.3	0.4
318	06/09/2009 12:21	0.3	0.3	0.4
319	06/09/2009 12:22	0.2	0.3	0.5
320	06/09/2009 12:23	0.3	0.3	0.4
321	06/09/2009 12:24	0.3	0.4	0.6
322	06/09/2009 12:25	0.3	0.3	0.4
323	06/09/2009 12:26	0.3	0.3	0.4
324	06/09/2009 12:27	0.3	0.3	0.5
325	06/09/2009 12:28	0.3	0.4	0.7
326	06/09/2009 12:29	0.2	0.3	0.6
327	06/09/2009 12:30	0.3	0.3	0.4
328	06/09/2009 12:31	0.3	0.3	0.4
329	06/09/2009 12:32	0.3	0.3	0.4
330	06/09/2009 12:33	0.2	0.2	0.4
331	06/09/2009 12:34	0.2	0.3	0.4
332	06/09/2009 12:35	0.3	0.3	0.6
333	06/09/2009 12:36	0.3	0.3	0.5
334	06/09/2009 12:37	0.3	0.3	0.4
335	06/09/2009 12:38	0.3	0.3	0.5
336	06/09/2009 12:39	0.3	0.3	0.4
337	06/09/2009 12:40	0.3	0.3	0.4
338	06/09/2009 12:41	0.2	0.2	0.3
339	06/09/2009 12:42	0.2	0.3	0.4
340	06/09/2009 12:43	0.2	0.3	0.4
341	06/09/2009 12:44	0.3	0.3	0.4
342	06/09/2009 12:45	0.3	0.3	0.4
343	06/09/2009 12:46	0.3	0.3	0.5
344	06/09/2009 12:47	0.2	0.4	0.8
345	06/09/2009 12:48	0.3	0.6	1.6
346	06/09/2009 12:49	0.3	0.3	0.6
347	06/09/2009 12:50	0.2	0.3	0.6
348	06/09/2009 12:51	0.2	0.2	0.3
349	06/09/2009 12:52	0.2	0.3	0.7
350	06/09/2009 12:53	0.2	0.4	0.6
351	06/09/2009 12:54	0.3	0.3	0.5
352	06/09/2009 12:55	0.3	0.3	0.5
353	06/09/2009 12:56	0.3	0.6	1.1

354	06/09/2009 12:57	0.3	0.4	0.7
355	06/09/2009 12:58	0.3	0.4	0.8
356	06/09/2009 12:59	0.3	0.5	1.1
357	06/09/2009 13:00	0.2	0.3	0.5
358	06/09/2009 13:01	0.2	0.3	0.4
359	06/09/2009 13:02	0.2	0.3	1.0
360	06/09/2009 13:03	0.2	0.3	0.6
361	06/09/2009 13:04	0.3	0.4	0.6
362	06/09/2009 13:05	0.3	0.3	0.5
363	06/09/2009 13:06	0.2	0.3	0.4
364	06/09/2009 13:07	0.2	0.3	0.4
365	06/09/2009 13:08	0.2	0.3	0.4
366	06/09/2009 13:09	0.2	0.4	0.6
367	06/09/2009 13:10	0.2	0.4	0.8
368	06/09/2009 13:11	0.2	0.3	0.4
369	06/09/2009 13:12	0.2	0.2	0.3
370	06/09/2009 13:13	0.2	0.4	0.6
371	06/09/2009 13:14	0.3	0.4	0.7
372	06/09/2009 13:15	0.2	0.3	0.6
373	06/09/2009 13:16	0.2	0.4	0.8
374	06/09/2009 13:17	0.2	0.3	0.4
375	06/09/2009 13:18	0.2	0.3	0.4
376	06/09/2009 13:19	0.2	0.3	0.5
377	06/09/2009 13:20	0.2	0.2	0.4
378	06/09/2009 13:21	0.2	0.2	0.3
379	06/09/2009 13:22	0.2	0.3	0.4
380	06/09/2009 13:23	0.2	0.3	0.4
381	06/09/2009 13:24	0.3	0.3	0.4
382	06/09/2009 13:25	0.2	0.3	0.4
383	06/09/2009 13:26	0.3	0.3	0.4
384	06/09/2009 13:27	0.3	0.3	0.4
385	06/09/2009 13:28	0.2	0.2	0.4
386	06/09/2009 13:29	0.2	0.3	0.4
387	06/09/2009 13:30	0.3	0.3	0.4
388	06/09/2009 13:31	0.3	0.3	0.4
389	06/09/2009 13:32	0.3	0.3	0.4
390	06/09/2009 13:33	0.3	0.3	0.5
391	06/09/2009 13:34	0.2	0.3	0.5
392	06/09/2009 13:35	0.3	0.3	0.5
393	06/09/2009 13:36	0.3	0.3	0.4
394	06/09/2009 13:37	0.3	0.3	0.4
395	06/09/2009 13:38	0.3	0.3	0.5
396	06/09/2009 13:39	0.3	0.3	0.5
397	06/09/2009 13:40	0.3	0.4	0.5
398	06/09/2009 13:41	0.4	0.4	0.6
399	06/09/2009 13:42	0.4	0.5	0.6
400	06/09/2009 13:43	0.4	0.4	0.6
401	06/09/2009 13:44	0.4	0.4	0.6
402	06/09/2009 13:45	0.3	0.4	0.5
403	06/09/2009 13:46	0.4	0.4	0.6
404	06/09/2009 13:47	0.4	0.4	0.6
405	06/09/2009 13:48	0.4	0.4	0.5

406	06/09/2009 13:49	0.4	0.4	0.6
407	06/09/2009 13:50	0.4	0.4	0.6
408	06/09/2009 13:51	0.4	0.4	0.5
409	06/09/2009 13:52	0.4	0.4	0.5
410	06/09/2009 13:53	0.3	0.4	0.6
411	06/09/2009 13:54	0.3	0.3	0.4
412	06/09/2009 13:55	0.3	0.3	0.4
413	06/09/2009 13:56	0.3	0.3	0.4
414	06/09/2009 13:57	0.3	0.4	0.5
415	06/09/2009 13:58	0.4	0.4	0.5
416	06/09/2009 13:59	0.4	0.4	0.5
417	06/09/2009 14:00	0.3	0.4	0.5
418	06/09/2009 14:01	0.3	0.3	0.4
419	06/09/2009 14:02	0.3	0.4	0.5
420	06/09/2009 14:03	0.3	0.4	0.5
421	06/09/2009 14:04	0.3	0.4	0.5
422	06/09/2009 14:05	0.3	0.4	0.5
423	06/09/2009 14:06	0.3	0.4	0.5
424	06/09/2009 14:07	0.3	0.3	0.5
425	06/09/2009 14:08	0.3	0.4	0.5
426	06/09/2009 14:09	0.3	0.3	0.5
427	06/09/2009 14:10	0.3	0.4	0.5
428	06/09/2009 14:11	0.3	0.3	0.5
429	06/09/2009 14:12	0.3	0.4	0.5
430	06/09/2009 14:13	0.4	0.4	0.6
431	06/09/2009 14:14	0.3	0.4	0.5
432	06/09/2009 14:15	0.3	0.4	0.5
433	06/09/2009 14:16	0.3	0.3	0.5
434	06/09/2009 14:17	0.3	0.4	0.5
435	06/09/2009 14:18	0.3	0.4	0.5
436	06/09/2009 14:19	0.4	0.4	0.5
437	06/09/2009 14:20	0.4	0.4	0.5
438	06/09/2009 14:21	0.4	0.4	0.5
439	06/09/2009 14:22	0.4	0.4	0.6
440	06/09/2009 14:23	0.3	0.4	0.5
441	06/09/2009 14:24	0.3	0.3	0.5
442	06/09/2009 14:25	0.3	0.3	0.4
443	06/09/2009 14:26	0.3	0.3	0.4
444	06/09/2009 14:27	0.3	0.3	0.5
445	06/09/2009 14:28	0.3	0.4	0.5
446	06/09/2009 14:29	0.3	0.4	0.5
447	06/09/2009 14:30	0.3	0.4	0.6
448	06/09/2009 14:31	0.4	0.5	0.6
449	06/09/2009 14:32	0.4	0.4	0.5
450	06/09/2009 14:33	0.3	0.4	0.5
451	06/09/2009 14:34	0.4	0.4	0.5
452	06/09/2009 14:35	0.4	0.4	0.5
453	06/09/2009 14:36	0.4	0.4	0.5
454	06/09/2009 14:37	0.4	0.4	0.5
455	06/09/2009 14:38	0.3	0.4	0.5
456	06/09/2009 14:39	0.3	0.3	0.5
457	06/09/2009 14:40	0.4	0.5	0.7

458	06/09/2009 14:41	0.4	0.5	0.7
459	06/09/2009 14:42	0.4	0.4	0.7
460	06/09/2009 14:43	0.3	0.4	0.5
461	06/09/2009 14:44	0.3	0.3	0.5
462	06/09/2009 14:45	0.3	0.4	0.5
463	06/09/2009 14:46	0.4	0.5	0.7
464	06/09/2009 14:47	0.5	0.5	0.7
465	06/09/2009 14:48	0.5	0.5	0.6
466	06/09/2009 14:49	0.4	0.4	0.6
467	06/09/2009 14:50	0.4	0.4	0.5
468	06/09/2009 14:51	0.4	0.4	0.5
469	06/09/2009 14:52	0.4	0.4	0.7
470	06/09/2009 14:53	0.4	0.5	0.9
471	06/09/2009 14:54	0.4	0.5	1.0
472	06/09/2009 14:55	0.5	0.5	0.7
473	06/09/2009 14:56	0.4	0.5	0.7
474	06/09/2009 14:57	0.5	0.6	1.0
475	06/09/2009 14:58	0.4	0.4	0.6
476	06/09/2009 14:59	0.4	0.4	0.5
477	06/09/2009 15:00	0.3	0.4	0.5
478	06/09/2009 15:01	0.3	0.3	0.5
479	06/09/2009 15:02	0.3	0.4	0.5
480	06/09/2009 15:03	0.3	0.3	0.5
481	06/09/2009 15:04	0.3	0.4	0.5
482	06/09/2009 15:05	0.3	0.4	0.5
483	06/09/2009 15:06	0.4	0.4	0.5
484	06/09/2009 15:07	0.4	0.4	0.5
485	06/09/2009 15:08	0.4	0.4	0.5
486	06/09/2009 15:09	0.3	0.4	0.5
487	06/09/2009 15:10	0.4	0.4	0.5
488	06/09/2009 15:11	0.4	0.4	0.5
489	06/09/2009 15:12	0.4	0.4	0.5
490	06/09/2009 15:13	0.4	0.4	0.5
491	06/09/2009 15:14	0.3	0.4	0.5
492	06/09/2009 15:15	0.4	0.4	0.5
493	06/09/2009 15:16	0.3	0.4	0.5
494	06/09/2009 15:17	0.4	0.4	0.5
495	06/09/2009 15:18	0.4	0.4	0.5
496	06/09/2009 15:19	0.4	0.4	0.5
497	06/09/2009 15:20	0.4	0.4	0.5
498	06/09/2009 15:21	0.4	0.4	0.5
499	06/09/2009 15:22	0.4	0.4	0.5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 501 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 06/09/2009 06:52      0.0         0.0          0.0
2 06/09/2009 06:53      0.0         0.0          0.0
3 06/09/2009 06:54      0.0         0.0          0.0
4 06/09/2009 06:55      0.0         0.0          0.0
5 06/09/2009 06:56      0.0         0.0          0.0
6 06/09/2009 06:57      0.0         0.0          0.0
7 06/09/2009 06:58      0.0         0.0          0.0
8 06/09/2009 06:59      0.0         0.0          0.0
9 06/09/2009 07:00      0.0         0.0          0.0
10 06/09/2009 07:01      0.0         0.0          0.0
11 06/09/2009 07:02      0.0         0.0          0.0
12 06/09/2009 07:03      0.0         0.0          0.0
13 06/09/2009 07:04      0.0         0.0          0.0
14 06/09/2009 07:05      0.0         0.0          0.0
15 06/09/2009 07:06      0.0         0.0          0.0
16 06/09/2009 07:07      0.0         0.0          0.0
17 06/09/2009 07:08      0.0         0.0          0.0
18 06/09/2009 07:09      0.0         0.0          0.0
19 06/09/2009 07:10      0.0         0.0          0.0
20 06/09/2009 07:11      0.0         0.0          0.0
21 06/09/2009 07:12      0.0         0.0          0.0
22 06/09/2009 07:13      0.0         0.0          0.0
23 06/09/2009 07:14      0.0         0.0          0.0
24 06/09/2009 07:15      0.0         0.0          0.0
25 06/09/2009 07:16      0.0         0.0          0.0
26 06/09/2009 07:17      0.0         0.0          0.0
27 06/09/2009 07:18      0.0         0.0          0.0
28 06/09/2009 07:19      0.0         0.0          0.0
29 06/09/2009 07:20      0.0         0.0          0.0
30 06/09/2009 07:21      0.0         0.0          0.0
31 06/09/2009 07:22      0.0         0.0          0.0
32 06/09/2009 07:23      0.0         0.0          0.0
33 06/09/2009 07:24      0.0         0.0          0.0
34 06/09/2009 07:25      0.0         0.0          0.0
35 06/09/2009 07:26      0.0         0.0          0.0
36 06/09/2009 07:27      0.0         0.0          0.0
37 06/09/2009 07:28      0.0         0.0          0.0
38 06/09/2009 07:29      0.0         0.0          0.1
39 06/09/2009 07:30      0.0         0.0          0.2
40 06/09/2009 07:31      0.0         0.1          0.2
41 06/09/2009 07:32      0.1         0.2          0.3
```



42	06/09/2009 07:33	0.3	0.4	0.6
43	06/09/2009 07:34	0.5	0.5	0.6
44	06/09/2009 07:35	0.5	0.5	0.7
45	06/09/2009 07:36	0.5	0.6	0.8
46	06/09/2009 07:37	0.4	0.5	0.7
47	06/09/2009 07:38	0.5	0.6	0.8
48	06/09/2009 07:39	0.7	0.7	0.9
49	06/09/2009 07:40	0.6	0.7	0.9
50	06/09/2009 07:41	0.5	0.7	0.9
51	06/09/2009 07:42	0.5	0.5	0.6
52	06/09/2009 07:43	0.4	0.5	0.6
53	06/09/2009 07:44	0.5	0.6	0.9
54	06/09/2009 07:45	0.6	0.7	0.9
55	06/09/2009 07:46	0.6	0.7	1.0
56	06/09/2009 07:47	0.8	0.9	1.0
57	06/09/2009 07:48	0.8	0.8	1.0
58	06/09/2009 07:49	0.8	0.9	1.1
59	06/09/2009 07:50	1.0	1.1	1.4
60	06/09/2009 07:51	1.2	1.3	1.4
61	06/09/2009 07:52	1.2	1.3	1.5
62	06/09/2009 07:53	1.2	1.3	1.4
63	06/09/2009 07:54	1.1	1.2	1.4
64	06/09/2009 07:55	1.2	1.3	1.6
65	06/09/2009 07:56	1.3	1.3	1.4
66	06/09/2009 07:57	1.3	1.3	1.4
67	06/09/2009 07:58	1.3	1.4	1.5
68	06/09/2009 07:59	1.2	1.3	1.5
69	06/09/2009 08:00	1.3	1.3	1.5
70	06/09/2009 08:01	1.4	1.4	1.6
71	06/09/2009 08:02	1.4	1.5	1.6
72	06/09/2009 08:03	1.5	1.6	1.8
73	06/09/2009 08:04	1.7	1.7	1.9
74	06/09/2009 08:05	1.6	1.7	1.9
75	06/09/2009 08:06	1.6	1.7	1.8
76	06/09/2009 08:07	1.6	1.6	1.8
77	06/09/2009 08:08	1.5	1.5	1.8
78	06/09/2009 08:09	1.7	1.8	1.9
79	06/09/2009 08:10	1.7	1.8	1.9
80	06/09/2009 08:11	1.8	1.9	2.0
81	06/09/2009 08:12	1.9	2.0	2.2
82	06/09/2009 08:13	1.8	1.9	2.1
83	06/09/2009 08:14	1.9	2.0	2.1
84	06/09/2009 08:15	1.9	2.0	2.3
85	06/09/2009 08:16	1.9	1.9	2.1
86	06/09/2009 08:17	1.8	1.9	2.1
87	06/09/2009 08:18	1.9	2.1	2.3
88	06/09/2009 08:19	2.2	2.5	2.8
89	06/09/2009 08:20	2.7	2.8	3.0
90	06/09/2009 08:21	2.3	2.5	2.8
91	06/09/2009 08:22	2.4	2.6	2.7
92	06/09/2009 08:23	2.6	2.8	3.2
93	06/09/2009 08:24	2.7	2.9	3.2

94	06/09/2009 08:25	2.4	2.6	2.8
95	06/09/2009 08:26	2.3	2.4	2.6
96	06/09/2009 08:27	2.2	2.2	2.4
97	06/09/2009 08:28	2.2	2.3	2.5
98	06/09/2009 08:29	2.4	2.6	2.8
99	06/09/2009 08:30	2.2	2.4	2.6
100	06/09/2009 08:31	2.2	2.3	2.6
101	06/09/2009 08:32	2.5	2.7	3.3
102	06/09/2009 08:33	3.0	3.2	3.4
103	06/09/2009 08:34	2.4	2.5	2.9
104	06/09/2009 08:35	2.1	2.2	2.4
105	06/09/2009 08:36	2.0	2.1	2.3
106	06/09/2009 08:37	2.1	2.2	2.3
107	06/09/2009 08:38	2.1	2.2	2.4
108	06/09/2009 08:39	2.2	2.3	2.5
109	06/09/2009 08:40	2.0	2.1	2.3
110	06/09/2009 08:41	1.8	1.9	2.2
111	06/09/2009 08:42	1.8	1.9	2.1
112	06/09/2009 08:43	1.8	1.9	2.1
113	06/09/2009 08:44	1.6	1.7	1.9
114	06/09/2009 08:45	1.6	1.8	2.1
115	06/09/2009 08:46	2.1	2.3	2.5
116	06/09/2009 08:47	1.8	2.2	2.5
117	06/09/2009 08:48	1.6	1.7	1.9
118	06/09/2009 08:49	1.6	1.6	1.8
119	06/09/2009 08:50	1.6	1.7	1.9
120	06/09/2009 08:51	1.6	1.6	1.8
121	06/09/2009 08:52	1.5	1.5	1.7
122	06/09/2009 08:53	1.5	1.6	2.1
123	06/09/2009 08:54	1.8	2.0	2.2
124	06/09/2009 08:55	2.0	2.0	2.2
125	06/09/2009 08:56	1.8	2.0	2.2
126	06/09/2009 08:57	1.7	1.7	1.9
127	06/09/2009 08:58	1.6	1.8	1.9
128	06/09/2009 08:59	1.6	1.7	1.9
129	06/09/2009 09:00	1.7	1.7	1.9
130	06/09/2009 09:01	1.6	1.8	2.0
131	06/09/2009 09:02	1.9	2.0	2.2
132	06/09/2009 09:03	1.6	1.8	2.1
133	06/09/2009 09:04	1.6	1.6	1.8
134	06/09/2009 09:05	1.7	1.9	2.2
135	06/09/2009 09:06	1.9	2.1	2.4
136	06/09/2009 09:07	1.9	1.9	2.1
137	06/09/2009 09:08	2.0	2.1	2.3
138	06/09/2009 09:09	2.2	2.3	2.5
139	06/09/2009 09:10	2.3	2.5	3.0
140	06/09/2009 09:11	2.9	3.0	3.3
141	06/09/2009 09:12	2.4	2.7	3.1
142	06/09/2009 09:13	2.4	2.5	2.6
143	06/09/2009 09:14	2.4	2.5	2.8
144	06/09/2009 09:15	1.9	2.0	2.5
145	06/09/2009 09:16	2.0	2.1	2.4

146	06/09/2009 09:17	2.3	2.4	2.6
147	06/09/2009 09:18	2.4	2.4	2.7
148	06/09/2009 09:19	2.4	2.6	2.8
149	06/09/2009 09:20	2.3	2.4	2.6
150	06/09/2009 09:21	2.1	2.2	2.4
151	06/09/2009 09:22	2.1	2.2	2.4
152	06/09/2009 09:23	1.9	2.1	2.3
153	06/09/2009 09:24	2.0	2.1	2.3
154	06/09/2009 09:25	2.2	2.3	2.6
155	06/09/2009 09:26	2.3	2.5	2.7
156	06/09/2009 09:27	2.6	2.7	3.0
157	06/09/2009 09:28	2.6	2.8	3.0
158	06/09/2009 09:29	2.4	2.5	2.7
159	06/09/2009 09:30	2.4	2.5	2.7
160	06/09/2009 09:31	2.4	2.4	2.7
161	06/09/2009 09:32	2.4	2.4	2.6
162	06/09/2009 09:33	2.5	2.6	2.9
163	06/09/2009 09:34	2.4	2.8	3.1
164	06/09/2009 09:35	2.0	2.2	2.6
165	06/09/2009 09:36	1.9	2.1	2.3
166	06/09/2009 09:37	2.2	2.2	2.4
167	06/09/2009 09:38	2.0	2.1	2.3
168	06/09/2009 09:39	1.7	1.8	2.0
169	06/09/2009 09:40	1.9	1.9	2.1
170	06/09/2009 09:41	2.0	2.1	2.3
171	06/09/2009 09:42	1.9	2.0	2.3
172	06/09/2009 09:43	2.0	2.1	2.3
173	06/09/2009 09:44	1.9	2.1	2.4
174	06/09/2009 09:45	1.8	1.9	2.0
175	06/09/2009 09:46	1.9	2.1	2.4
176	06/09/2009 09:47	2.1	2.1	2.3
177	06/09/2009 09:48	2.1	2.1	2.4
178	06/09/2009 09:49	2.1	2.2	2.4
179	06/09/2009 09:50	2.1	2.3	2.5
180	06/09/2009 09:51	2.2	2.2	2.4
181	06/09/2009 09:52	2.2	2.3	2.5
182	06/09/2009 09:53	2.2	2.3	2.5
183	06/09/2009 09:54	2.2	2.3	2.5
184	06/09/2009 09:55	2.3	2.4	2.9
185	06/09/2009 09:56	2.1	2.2	2.4
186	06/09/2009 09:57	2.2	2.2	2.4
187	06/09/2009 09:58	2.1	2.2	2.3
188	06/09/2009 09:59	2.0	2.1	2.3
189	06/09/2009 10:00	1.9	2.0	2.2
190	06/09/2009 10:01	1.9	2.0	2.3
191	06/09/2009 10:02	1.9	2.0	2.2
192	06/09/2009 10:03	1.8	2.0	2.2
193	06/09/2009 10:04	2.1	2.2	2.4
194	06/09/2009 10:05	2.0	2.2	2.5
195	06/09/2009 10:06	1.9	2.1	2.4
196	06/09/2009 10:07	1.9	2.0	2.2
197	06/09/2009 10:08	1.6	1.7	2.0

198	06/09/2009 10:09	1.4	1.6	1.8
199	06/09/2009 10:10	1.3	1.4	1.6
200	06/09/2009 10:11	1.5	1.7	1.9
201	06/09/2009 10:12	1.7	1.9	2.2
202	06/09/2009 10:13	1.9	2.1	2.3
203	06/09/2009 10:14	2.1	2.3	2.6
204	06/09/2009 10:15	2.3	2.4	2.7
205	06/09/2009 10:16	2.2	2.4	2.6
206	06/09/2009 10:17	2.1	2.3	2.6
207	06/09/2009 10:18	2.1	2.1	2.3
208	06/09/2009 10:19	1.8	2.0	2.2
209	06/09/2009 10:20	1.9	2.0	2.2
210	06/09/2009 10:21	1.8	1.9	2.2
211	06/09/2009 10:22	1.6	1.7	2.0
212	06/09/2009 10:23	1.4	1.5	1.6
213	06/09/2009 10:24	1.5	1.7	2.0
214	06/09/2009 10:25	1.7	1.8	2.0
215	06/09/2009 10:26	1.7	1.8	2.1
216	06/09/2009 10:27	1.8	1.8	2.1
217	06/09/2009 10:28	1.8	2.0	2.3
218	06/09/2009 10:29	1.9	2.0	2.2
219	06/09/2009 10:30	1.8	1.9	2.1
220	06/09/2009 10:31	2.1	2.3	2.6
221	06/09/2009 10:32	2.3	2.5	2.8
222	06/09/2009 10:33	2.2	2.3	2.5
223	06/09/2009 10:34	2.0	2.3	2.6
224	06/09/2009 10:35	1.9	2.0	2.2
225	06/09/2009 10:36	1.7	1.8	2.1
226	06/09/2009 10:37	1.7	1.9	2.1
227	06/09/2009 10:38	1.7	1.8	2.1
228	06/09/2009 10:39	1.6	1.8	2.0
229	06/09/2009 10:40	1.6	1.7	2.0
230	06/09/2009 10:41	1.5	1.6	1.9
231	06/09/2009 10:42	1.3	1.4	1.6
232	06/09/2009 10:43	1.2	1.3	1.5
233	06/09/2009 10:44	1.1	1.2	1.3
234	06/09/2009 10:45	1.2	1.4	1.7
235	06/09/2009 10:46	1.1	1.2	1.7
236	06/09/2009 10:47	1.0	1.1	1.3
237	06/09/2009 10:48	1.1	1.2	1.5
238	06/09/2009 10:49	0.9	1.0	1.2
239	06/09/2009 10:50	0.9	0.9	1.1
240	06/09/2009 10:51	0.9	1.0	1.2
241	06/09/2009 10:52	0.8	0.9	1.0
242	06/09/2009 10:53	0.6	0.7	0.9
243	06/09/2009 10:54	0.6	0.6	0.8
244	06/09/2009 10:55	0.6	0.7	0.9
245	06/09/2009 10:56	0.6	0.7	0.9
246	06/09/2009 10:57	0.6	0.7	0.9
247	06/09/2009 10:58	0.7	0.7	0.9
248	06/09/2009 10:59	0.5	0.6	1.1
249	06/09/2009 11:00	0.5	0.6	1.0

250	06/09/2009 11:01	0.5	0.6	0.7
251	06/09/2009 11:02	0.5	0.5	0.7
252	06/09/2009 11:03	0.4	0.5	0.8
253	06/09/2009 11:04	0.5	0.5	0.7
254	06/09/2009 11:05	0.4	0.5	0.6
255	06/09/2009 11:06	0.5	0.5	0.6
256	06/09/2009 11:07	0.5	0.6	0.8
257	06/09/2009 11:08	0.5	0.6	0.7
258	06/09/2009 11:09	0.4	0.5	0.7
259	06/09/2009 11:10	0.4	0.5	0.7
260	06/09/2009 11:11	0.6	0.7	0.9
261	06/09/2009 11:12	0.7	0.8	1.0
262	06/09/2009 11:13	0.6	0.7	0.8
263	06/09/2009 11:14	0.5	0.6	0.8
264	06/09/2009 11:15	0.6	0.6	0.8
265	06/09/2009 11:16	0.6	0.7	0.8
266	06/09/2009 11:17	0.7	0.7	0.8
267	06/09/2009 11:18	0.6	0.7	0.9
268	06/09/2009 11:19	0.8	0.9	1.0
269	06/09/2009 11:20	0.7	0.8	0.9
270	06/09/2009 11:21	0.6	0.6	0.8
271	06/09/2009 11:22	0.6	0.7	0.9
272	06/09/2009 11:23	0.6	0.7	0.9
273	06/09/2009 11:24	0.7	0.7	0.8
274	06/09/2009 11:25	0.6	0.6	0.7
275	06/09/2009 11:26	0.7	0.7	0.9
276	06/09/2009 11:27	0.7	0.7	0.9
277	06/09/2009 11:28	0.6	0.7	0.9
278	06/09/2009 11:29	0.6	0.6	0.8
279	06/09/2009 11:30	0.7	0.8	0.9
280	06/09/2009 11:31	0.6	0.7	0.9
281	06/09/2009 11:32	0.5	0.6	0.7
282	06/09/2009 11:33	0.5	0.6	0.8
283	06/09/2009 11:34	0.6	0.6	0.8
284	06/09/2009 11:35	0.6	0.7	0.9
285	06/09/2009 11:36	0.6	0.7	0.9
286	06/09/2009 11:37	0.5	0.6	0.8
287	06/09/2009 11:38	0.4	0.5	0.6
288	06/09/2009 11:39	0.5	0.6	0.7
289	06/09/2009 11:40	0.4	0.5	0.6
290	06/09/2009 11:41	0.4	0.5	0.6
291	06/09/2009 11:42	0.3	0.4	0.5
292	06/09/2009 11:43	0.3	0.3	0.5
293	06/09/2009 11:44	0.2	0.2	0.4
294	06/09/2009 11:45	0.2	0.3	0.4
295	06/09/2009 11:46	0.2	0.2	0.3
296	06/09/2009 11:47	0.2	0.3	0.5
297	06/09/2009 11:48	0.2	0.3	0.4
298	06/09/2009 11:49	0.2	0.2	0.3
299	06/09/2009 11:50	0.2	0.3	0.4
300	06/09/2009 11:51	0.2	0.3	0.4
301	06/09/2009 11:52	0.3	0.3	0.5

302	06/09/2009 11:53	0.3	0.3	0.4
303	06/09/2009 11:54	0.2	0.2	0.4
304	06/09/2009 11:55	0.1	0.2	0.4
305	06/09/2009 11:56	0.1	0.1	0.3
306	06/09/2009 11:57	0.1	0.1	0.3
307	06/09/2009 11:58	0.0	0.1	0.3
308	06/09/2009 11:59	0.0	0.0	0.2
309	06/09/2009 12:00	0.0	0.0	0.1
310	06/09/2009 12:01	0.0	0.0	0.0
311	06/09/2009 12:02	0.0	0.1	0.6
312	06/09/2009 12:03	0.4	0.5	0.7
313	06/09/2009 12:04	0.5	0.6	0.8
314	06/09/2009 12:05	0.5	0.6	0.7
315	06/09/2009 12:06	0.5	0.6	0.7
316	06/09/2009 12:07	0.4	0.5	0.7
317	06/09/2009 12:08	0.4	0.4	0.6
318	06/09/2009 12:09	0.2	0.4	0.6
319	06/09/2009 12:10	0.2	0.3	0.5
320	06/09/2009 12:11	0.3	0.4	0.5
321	06/09/2009 12:12	0.3	0.4	0.6
322	06/09/2009 12:13	0.2	0.3	0.5
323	06/09/2009 12:14	0.1	0.2	0.3
324	06/09/2009 12:15	0.0	0.0	0.2
325	06/09/2009 12:16	0.0	0.0	0.2
326	06/09/2009 12:17	0.0	0.0	0.1
327	06/09/2009 12:18	0.0	0.0	0.1
328	06/09/2009 12:19	0.0	0.0	0.1
329	06/09/2009 12:20	0.0	0.0	0.1
330	06/09/2009 12:21	0.0	0.0	0.0
331	06/09/2009 12:22	0.0	0.0	0.0
332	06/09/2009 12:23	0.0	0.0	0.1
333	06/09/2009 12:24	0.0	0.0	0.0
334	06/09/2009 12:25	0.0	0.0	0.0
335	06/09/2009 12:26	0.0	0.0	0.0
336	06/09/2009 12:27	0.0	0.0	0.0
337	06/09/2009 12:28	0.0	0.0	0.0
338	06/09/2009 12:29	0.0	0.0	0.0
339	06/09/2009 12:30	0.0	0.0	0.0
340	06/09/2009 12:31	0.0	0.0	0.0
341	06/09/2009 12:32	0.0	0.0	0.0
342	06/09/2009 12:33	0.0	0.0	0.0
343	06/09/2009 12:34	0.0	0.0	0.0
344	06/09/2009 12:35	0.0	0.0	0.0
345	06/09/2009 12:36	0.0	0.0	0.0
346	06/09/2009 12:37	0.0	0.0	0.0
347	06/09/2009 12:38	0.0	0.0	0.0
348	06/09/2009 12:39	0.0	0.0	0.0
349	06/09/2009 12:40	0.0	0.0	0.0
350	06/09/2009 12:41	0.0	0.0	0.0
351	06/09/2009 12:42	0.0	0.0	0.0
352	06/09/2009 12:43	0.0	0.0	0.0
353	06/09/2009 12:44	0.0	0.0	0.0

354	06/09/2009 12:45	0.0	0.0	0.0
355	06/09/2009 12:46	0.0	0.0	0.0
356	06/09/2009 12:47	0.0	0.0	0.0
357	06/09/2009 12:48	0.0	0.0	0.0
358	06/09/2009 12:49	0.0	0.0	0.0
359	06/09/2009 12:50	0.0	0.0	0.0
360	06/09/2009 12:51	0.0	0.0	0.0
361	06/09/2009 12:52	0.0	0.0	0.0
362	06/09/2009 12:53	0.0	0.0	0.0
363	06/09/2009 12:54	0.0	0.0	0.0
364	06/09/2009 12:55	0.0	0.0	0.0
365	06/09/2009 12:56	0.0	0.0	0.0
366	06/09/2009 12:57	0.0	0.0	0.0
367	06/09/2009 12:58	0.0	0.0	0.0
368	06/09/2009 12:59	0.0	0.0	0.0
369	06/09/2009 13:00	0.0	0.0	0.0
370	06/09/2009 13:01	0.0	0.0	0.0
371	06/09/2009 13:02	0.0	0.0	0.0
372	06/09/2009 13:03	0.0	0.0	0.0
373	06/09/2009 13:04	0.0	0.0	0.0
374	06/09/2009 13:05	0.0	0.0	0.0
375	06/09/2009 13:06	0.0	0.0	0.0
376	06/09/2009 13:07	0.0	0.0	0.0
377	06/09/2009 13:08	0.0	0.0	0.0
378	06/09/2009 13:09	0.0	0.0	0.0
379	06/09/2009 13:10	0.0	0.0	0.0
380	06/09/2009 13:11	0.0	0.0	0.0
381	06/09/2009 13:12	0.0	0.0	0.0
382	06/09/2009 13:13	0.0	0.0	0.0
383	06/09/2009 13:14	0.0	0.0	0.0
384	06/09/2009 13:15	0.0	0.0	0.0
385	06/09/2009 13:16	0.0	0.0	0.0
386	06/09/2009 13:17	0.0	0.0	0.0
387	06/09/2009 13:18	0.0	0.0	0.0
388	06/09/2009 13:19	0.0	0.0	0.0
389	06/09/2009 13:20	0.0	0.0	0.0
390	06/09/2009 13:21	0.0	0.0	0.0
391	06/09/2009 13:22	0.0	0.0	0.0
392	06/09/2009 13:23	0.0	0.0	0.0
393	06/09/2009 13:24	0.0	0.0	0.0
394	06/09/2009 13:25	0.0	0.0	0.0
395	06/09/2009 13:26	0.0	0.0	0.0
396	06/09/2009 13:27	0.0	0.0	0.0
397	06/09/2009 13:28	0.0	0.0	0.0
398	06/09/2009 13:29	0.0	0.0	0.0
399	06/09/2009 13:30	0.0	0.0	0.0
400	06/09/2009 13:31	0.0	0.0	0.0
401	06/09/2009 13:32	0.0	0.0	0.0
402	06/09/2009 13:33	0.0	0.0	0.0
403	06/09/2009 13:34	0.0	0.0	0.0
404	06/09/2009 13:35	0.0	0.0	0.0
405	06/09/2009 13:36	0.0	0.0	0.0



406	06/09/2009 13:37	0.0	0.0	0.0
407	06/09/2009 13:38	0.0	0.0	0.0
408	06/09/2009 13:39	0.0	0.0	0.0
409	06/09/2009 13:40	0.0	0.0	0.0
410	06/09/2009 13:41	0.0	0.0	0.0
411	06/09/2009 13:42	0.0	0.1	0.2
412	06/09/2009 13:43	0.1	0.3	0.8
413	06/09/2009 13:44	0.7	0.9	1.3
414	06/09/2009 13:45	1.1	1.3	1.8
415	06/09/2009 13:46	1.8	2.5	3.6
416	06/09/2009 13:47	2.6	3.0	3.9
417	06/09/2009 13:48	2.1	2.5	2.9
418	06/09/2009 13:49	1.9	2.1	2.4
419	06/09/2009 13:50	1.9	2.1	2.3
420	06/09/2009 13:51	2.0	2.2	2.6
421	06/09/2009 13:52	2.0	2.1	2.3
422	06/09/2009 13:53	1.7	1.9	2.3
423	06/09/2009 13:54	1.3	1.5	1.9
424	06/09/2009 13:55	1.6	1.8	2.0
425	06/09/2009 13:56	1.2	1.5	1.8
426	06/09/2009 13:57	1.1	1.2	1.4
427	06/09/2009 13:58	1.1	1.2	1.3
428	06/09/2009 13:59	0.9	1.0	1.2
429	06/09/2009 14:00	1.1	1.7	2.9
430	06/09/2009 14:01	1.3	1.4	1.9
431	06/09/2009 14:02	1.4	1.5	2.0
432	06/09/2009 14:03	1.4	1.4	1.6
433	06/09/2009 14:04	1.3	1.6	2.1
434	06/09/2009 14:05	1.7	1.8	2.3
435	06/09/2009 14:06	1.6	1.9	2.2
436	06/09/2009 14:07	1.8	2.0	2.5
437	06/09/2009 14:08	1.8	1.9	2.1
438	06/09/2009 14:09	1.7	1.8	2.1
439	06/09/2009 14:10	1.6	1.9	2.6
440	06/09/2009 14:11	1.8	2.0	2.3
441	06/09/2009 14:12	1.8	2.0	2.3
442	06/09/2009 14:13	1.8	2.0	2.4
443	06/09/2009 14:14	2.2	2.5	2.8
444	06/09/2009 14:15	2.3	2.5	2.8
445	06/09/2009 14:16	2.2	2.4	2.8
446	06/09/2009 14:17	2.5	2.6	2.8
447	06/09/2009 14:18	2.6	2.8	3.4
448	06/09/2009 14:19	2.8	3.0	3.5
449	06/09/2009 14:20	3.0	3.1	3.3
450	06/09/2009 14:21	2.6	2.7	3.1
451	06/09/2009 14:22	2.7	2.8	3.0
452	06/09/2009 14:23	2.7	2.9	3.1
453	06/09/2009 14:24	3.0	3.0	3.2
454	06/09/2009 14:25	2.6	3.0	3.2
455	06/09/2009 14:26	2.6	2.8	3.2
456	06/09/2009 14:27	2.7	3.1	4.0
457	06/09/2009 14:28	3.0	3.4	4.0

458	06/09/2009 14:29	3.4	3.6	4.1
459	06/09/2009 14:30	3.0	3.4	3.9
460	06/09/2009 14:31	3.2	4.0	4.7
461	06/09/2009 14:32	4.3	4.6	4.9
462	06/09/2009 14:33	4.9	5.4L	5.7L
463	06/09/2009 14:34	5.0	5.2L	5.6L
464	06/09/2009 14:35	5.2L	5.4L	5.6L
465	06/09/2009 14:36	5.3L	5.4L	5.6L
466	06/09/2009 14:37	4.8	5.1L	5.5L
467	06/09/2009 14:38	5.3L	6.2L	7.8L
468	06/09/2009 14:39	7.8L	9.0L	10.8L
469	06/09/2009 14:40	10.4L	11.4L	14.1L
470	06/09/2009 14:41	9.9L	12.4L	14.6L
471	06/09/2009 14:42	9.9L	11.3L	12.8L
472	06/09/2009 14:43	9.3L	10.3L	11.4L
473	06/09/2009 14:44	7.7L	9.4L	11.5L
474	06/09/2009 14:45	6.5L	7.5L	8.6L
475	06/09/2009 14:46	5.5L	5.9L	6.8L
476	06/09/2009 14:47	4.8	5.3L	6.3L
477	06/09/2009 14:48	4.3	4.9	5.5L
478	06/09/2009 14:49	3.8	4.4	4.9
479	06/09/2009 14:50	3.9	4.2	5.0
480	06/09/2009 14:51	3.4	3.9	4.3
481	06/09/2009 14:52	3.3	3.6	4.4
482	06/09/2009 14:53	4.1	4.8	5.6L
483	06/09/2009 14:54	3.6	4.3	5.2L
484	06/09/2009 14:55	2.8	3.4	3.9
485	06/09/2009 14:56	2.9	3.7	4.7
486	06/09/2009 14:57	2.7	3.1	3.6
487	06/09/2009 14:58	2.2	2.5	3.0
488	06/09/2009 14:59	2.3	2.5	2.9
489	06/09/2009 15:00	2.0	2.4	2.8
490	06/09/2009 15:01	1.3	1.6	2.2
491	06/09/2009 15:02	1.1	1.3	1.8
492	06/09/2009 15:03	0.8	0.9	1.2
493	06/09/2009 15:04	0.7	0.8	1.1
494	06/09/2009 15:05	0.7	0.8	1.0
495	06/09/2009 15:06	0.6	0.9	1.4
496	06/09/2009 15:07	0.4	0.5	0.8
497	06/09/2009 15:08	0.3	0.3	0.5
498	06/09/2009 15:09	0.3	0.4	0.5
499	06/09/2009 15:10	0.3	0.4	0.6
500	06/09/2009 15:11	0.3	0.4	0.6
501	06/09/2009 15:12	0.0	0.1	0.6

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 514 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/10/2009 07:36      0.0        0.0        0.0
2 06/10/2009 07:37      0.0        0.0        0.0
3 06/10/2009 07:38      0.0        0.0        0.0
4 06/10/2009 07:39      0.0        0.0        0.0
5 06/10/2009 07:40      0.0        0.0        0.0
6 06/10/2009 07:41      0.0        0.0        0.0
7 06/10/2009 07:42      0.0        0.0        0.0
8 06/10/2009 07:43      0.0        0.0        0.0
9 06/10/2009 07:44      0.0        0.0        0.0
10 06/10/2009 07:45      0.0        0.0        0.0
11 06/10/2009 07:46      0.0        0.0        0.0
12 06/10/2009 07:47      0.0        0.0        0.0
13 06/10/2009 07:48      0.0        0.0        0.0
14 06/10/2009 07:49      0.0        0.0        0.0
15 06/10/2009 07:50      0.0        0.0        0.0
16 06/10/2009 07:51      0.0        0.0        0.0
17 06/10/2009 07:52      0.0        0.0        0.0
18 06/10/2009 07:53      0.0        0.0        0.0
19 06/10/2009 07:54      0.0        0.0        0.0
20 06/10/2009 07:55      0.0        0.0        0.0
21 06/10/2009 07:56      0.0        0.0        0.0
22 06/10/2009 07:57      0.0        0.0        0.0
23 06/10/2009 07:58      0.0        0.0        0.0
24 06/10/2009 07:59      0.0        0.0        0.0
25 06/10/2009 08:00      0.0        0.0        0.0
26 06/10/2009 08:01      0.0        0.0        0.0
27 06/10/2009 08:02      0.0        0.0        0.0
28 06/10/2009 08:03      0.0        0.0        0.0
29 06/10/2009 08:04      0.0        0.0        0.0
30 06/10/2009 08:05      0.0        0.0        0.0
31 06/10/2009 08:06      0.0        0.0        0.0
32 06/10/2009 08:07      0.0        0.0        0.0
33 06/10/2009 08:08      0.0        0.0        0.0
34 06/10/2009 08:09      0.0        0.0        0.0
35 06/10/2009 08:10      0.0        0.0        0.0
36 06/10/2009 08:11      0.0        0.0        0.0
37 06/10/2009 08:12      0.0        0.0        0.0
38 06/10/2009 08:13      0.0        0.0        0.0
39 06/10/2009 08:14      0.0        0.0        0.0
40 06/10/2009 08:15      0.0        0.0        0.0
41 06/10/2009 08:16      0.0        0.0        0.0
```

42	06/10/2009 08:17	0.0	0.0	0.0
43	06/10/2009 08:18	0.0	0.0	0.0
44	06/10/2009 08:19	0.0	0.0	0.0
45	06/10/2009 08:20	0.0	0.0	0.0
46	06/10/2009 08:21	0.0	0.0	0.0
47	06/10/2009 08:22	0.0	0.0	0.0
48	06/10/2009 08:23	0.0	0.0	0.0
49	06/10/2009 08:24	0.0	0.0	0.0
50	06/10/2009 08:25	0.0	0.0	0.0
51	06/10/2009 08:26	0.0	0.0	0.0
52	06/10/2009 08:27	0.0	0.0	0.0
53	06/10/2009 08:28	0.0	0.0	0.0
54	06/10/2009 08:29	0.0	0.0	0.0
55	06/10/2009 08:30	0.0	0.0	0.0
56	06/10/2009 08:31	0.0	0.0	0.0
57	06/10/2009 08:32	0.0	0.0	0.0
58	06/10/2009 08:33	0.0	0.0	0.0
59	06/10/2009 08:34	0.0	0.0	0.0
60	06/10/2009 08:35	0.0	0.0	0.0
61	06/10/2009 08:36	0.0	0.0	0.0
62	06/10/2009 08:37	0.0	0.0	0.0
63	06/10/2009 08:38	0.0	0.0	0.0
64	06/10/2009 08:39	0.0	0.0	0.0
65	06/10/2009 08:40	0.0	0.0	0.0
66	06/10/2009 08:41	0.0	0.0	0.0
67	06/10/2009 08:42	0.0	0.0	0.2
68	06/10/2009 08:43	0.0	0.0	0.0
69	06/10/2009 08:44	0.0	0.0	0.0
70	06/10/2009 08:45	0.0	0.0	0.0
71	06/10/2009 08:46	0.0	0.0	0.0
72	06/10/2009 08:47	0.0	0.0	0.0
73	06/10/2009 08:48	0.0	0.0	0.0
74	06/10/2009 08:49	0.0	0.0	0.0
75	06/10/2009 08:50	0.0	0.0	0.0
76	06/10/2009 08:51	0.0	0.0	0.0
77	06/10/2009 08:52	0.0	0.0	0.0
78	06/10/2009 08:53	0.0	0.0	0.0
79	06/10/2009 08:54	0.0	0.0	0.0
80	06/10/2009 08:55	0.0	0.0	0.0
81	06/10/2009 08:56	0.0	0.0	0.0
82	06/10/2009 08:57	0.0	0.0	0.0
83	06/10/2009 08:58	0.0	0.0	0.0
84	06/10/2009 08:59	0.0	0.0	0.0
85	06/10/2009 09:00	0.0	0.0	0.0
86	06/10/2009 09:01	0.0	0.0	0.0
87	06/10/2009 09:02	0.0	0.0	0.0
88	06/10/2009 09:03	0.0	0.0	0.0
89	06/10/2009 09:04	0.0	0.0	0.0
90	06/10/2009 09:05	0.0	0.0	0.0
91	06/10/2009 09:06	0.0	0.0	0.0
92	06/10/2009 09:07	0.0	0.0	0.0
93	06/10/2009 09:08	0.0	0.0	0.0

94	06/10/2009 09:09	0.0	0.0	0.0
95	06/10/2009 09:10	0.0	0.0	0.0
96	06/10/2009 09:11	0.0	0.0	0.0
97	06/10/2009 09:12	0.0	0.0	0.0
98	06/10/2009 09:13	0.0	0.0	0.0
99	06/10/2009 09:14	0.0	0.0	0.0
100	06/10/2009 09:15	0.0	0.0	0.0
101	06/10/2009 09:16	0.0	0.0	0.0
102	06/10/2009 09:17	0.0	0.0	0.0
103	06/10/2009 09:18	0.0	0.0	0.0
104	06/10/2009 09:19	0.0	0.0	0.0
105	06/10/2009 09:20	0.0	0.0	0.0
106	06/10/2009 09:21	0.0	0.0	0.0
107	06/10/2009 09:22	0.0	0.0	0.0
108	06/10/2009 09:23	0.0	0.0	0.0
109	06/10/2009 09:24	0.0	0.0	0.0
110	06/10/2009 09:25	0.0	0.0	0.0
111	06/10/2009 09:26	0.0	0.0	0.0
112	06/10/2009 09:27	0.0	0.0	0.1
113	06/10/2009 09:28	0.0	0.0	0.0
114	06/10/2009 09:29	0.0	0.0	0.0
115	06/10/2009 09:30	0.0	0.0	0.0
116	06/10/2009 09:31	0.0	0.0	0.0
117	06/10/2009 09:32	0.0	0.0	0.0
118	06/10/2009 09:33	0.0	0.0	0.0
119	06/10/2009 09:34	0.0	0.0	0.0
120	06/10/2009 09:35	0.0	0.0	0.0
121	06/10/2009 09:36	0.0	0.0	0.0
122	06/10/2009 09:37	0.0	0.0	0.0
123	06/10/2009 09:38	0.0	0.0	0.0
124	06/10/2009 09:39	0.0	0.0	0.0
125	06/10/2009 09:40	0.0	0.0	0.0
126	06/10/2009 09:41	0.0	0.0	0.0
127	06/10/2009 09:42	0.0	0.0	0.0
128	06/10/2009 09:43	0.0	0.0	0.3
129	06/10/2009 09:44	0.0	0.0	0.0
130	06/10/2009 09:45	0.0	0.0	0.1
131	06/10/2009 09:46	0.0	0.0	0.0
132	06/10/2009 09:47	0.0	0.0	0.0
133	06/10/2009 09:48	0.0	0.0	0.1
134	06/10/2009 09:49	0.0	0.0	0.0
135	06/10/2009 09:50	0.0	0.0	0.0
136	06/10/2009 09:51	0.0	0.0	0.0
137	06/10/2009 09:52	0.0	0.0	0.0
138	06/10/2009 09:53	0.0	0.0	0.0
139	06/10/2009 09:54	0.0	0.0	0.0
140	06/10/2009 09:55	0.0	0.0	0.0
141	06/10/2009 09:56	0.0	0.0	0.0
142	06/10/2009 09:57	0.0	0.0	0.0
143	06/10/2009 09:58	0.0	0.0	0.1
144	06/10/2009 09:59	0.0	0.0	0.1
145	06/10/2009 10:00	0.0	0.0	0.0

146	06/10/2009 10:01	0.0	0.0	0.0
147	06/10/2009 10:02	0.0	0.0	0.8
148	06/10/2009 10:03	0.0	0.0	0.2
149	06/10/2009 10:04	0.0	0.0	0.0
150	06/10/2009 10:05	0.0	0.0	0.0
151	06/10/2009 10:06	0.0	0.0	0.0
152	06/10/2009 10:07	0.0	0.0	0.0
153	06/10/2009 10:08	0.0	0.0	0.0
154	06/10/2009 10:09	0.0	0.0	0.0
155	06/10/2009 10:10	0.0	0.0	0.0
156	06/10/2009 10:11	0.0	0.0	0.0
157	06/10/2009 10:12	0.0	0.0	0.0
158	06/10/2009 10:13	0.0	0.0	0.0
159	06/10/2009 10:14	0.0	0.0	0.0
160	06/10/2009 10:15	0.0	0.0	0.0
161	06/10/2009 10:16	0.0	0.0	0.1
162	06/10/2009 10:17	0.0	0.0	0.0
163	06/10/2009 10:18	0.0	0.0	0.0
164	06/10/2009 10:19	0.0	0.0	0.1
165	06/10/2009 10:20	0.0	0.0	0.1
166	06/10/2009 10:21	0.0	0.0	0.1
167	06/10/2009 10:22	0.0	0.0	0.1
168	06/10/2009 10:23	0.0	0.0	0.1
169	06/10/2009 10:24	0.0	0.0	0.0
170	06/10/2009 10:25	0.0	0.0	0.1
171	06/10/2009 10:26	0.0	0.0	0.2
172	06/10/2009 10:27	0.0	0.0	0.2
173	06/10/2009 10:28	0.0	0.0	0.2
174	06/10/2009 10:29	0.0	0.0	0.1
175	06/10/2009 10:30	0.0	0.0	0.1
176	06/10/2009 10:31	0.0	0.0	0.2
177	06/10/2009 10:32	0.0	0.0	0.2
178	06/10/2009 10:33	0.0	0.0	0.0
179	06/10/2009 10:34	0.0	0.0	0.1
180	06/10/2009 10:35	0.0	0.0	0.1
181	06/10/2009 10:36	0.0	0.1	0.5
182	06/10/2009 10:37	0.0	0.3	0.8
183	06/10/2009 10:38	0.0	0.0	0.2
184	06/10/2009 10:39	0.0	0.0	0.1
185	06/10/2009 10:40	0.0	0.0	0.3
186	06/10/2009 10:41	0.0	0.0	0.2
187	06/10/2009 10:42	0.0	0.0	0.2
188	06/10/2009 10:43	0.0	0.0	0.1
189	06/10/2009 10:44	0.0	0.0	0.0
190	06/10/2009 10:45	0.0	0.0	0.1
191	06/10/2009 10:46	0.0	0.0	0.3
192	06/10/2009 10:47	0.0	0.0	0.2
193	06/10/2009 10:48	0.0	0.0	0.1
194	06/10/2009 10:49	0.0	0.0	0.1
195	06/10/2009 10:50	0.0	0.0	0.1
196	06/10/2009 10:51	0.0	0.0	0.1
197	06/10/2009 10:52	0.0	0.0	0.3

198	06/10/2009 10:53	0.0	0.0	0.3
199	06/10/2009 10:54	0.0	0.0	0.1
200	06/10/2009 10:55	0.1	0.1	0.3
201	06/10/2009 10:56	0.0	0.0	0.1
202	06/10/2009 10:57	0.0	0.1	0.4
203	06/10/2009 10:58	0.0	0.2	0.5
204	06/10/2009 10:59	0.0	0.2	0.5
205	06/10/2009 11:00	0.0	0.1	0.3
206	06/10/2009 11:01	0.0	0.0	0.2
207	06/10/2009 11:02	0.0	0.0	0.1
208	06/10/2009 11:03	0.0	0.0	0.1
209	06/10/2009 11:04	0.0	0.0	0.1
210	06/10/2009 11:05	0.0	0.0	0.1
211	06/10/2009 11:06	0.0	0.0	0.1
212	06/10/2009 11:07	0.0	0.1	0.5
213	06/10/2009 11:08	0.0	0.1	0.4
214	06/10/2009 11:09	0.0	0.0	0.2
215	06/10/2009 11:10	0.0	0.0	0.1
216	06/10/2009 11:11	0.0	0.0	0.3
217	06/10/2009 11:12	0.0	0.0	0.2
218	06/10/2009 11:13	0.0	0.1	0.6
219	06/10/2009 11:14	0.0	0.0	0.2
220	06/10/2009 11:15	0.0	0.1	0.6
221	06/10/2009 11:16	0.0	0.1	0.3
222	06/10/2009 11:17	0.0	0.1	0.3
223	06/10/2009 11:18	0.0	0.0	0.1
224	06/10/2009 11:19	0.0	0.0	0.1
225	06/10/2009 11:20	0.0	0.0	0.1
226	06/10/2009 11:21	0.0	0.0	0.2
227	06/10/2009 11:22	0.0	0.1	0.3
228	06/10/2009 11:23	0.0	0.1	0.3
229	06/10/2009 11:24	0.1	0.1	0.3
230	06/10/2009 11:25	0.0	0.1	0.3
231	06/10/2009 11:26	0.0	0.0	0.2
232	06/10/2009 11:27	0.0	0.0	0.2
233	06/10/2009 11:28	0.0	0.0	0.2
234	06/10/2009 11:29	0.0	0.0	0.1
235	06/10/2009 11:30	0.0	0.1	0.3
236	06/10/2009 11:31	0.0	0.0	0.2
237	06/10/2009 11:32	0.0	0.1	0.3
238	06/10/2009 11:33	0.0	0.1	0.5
239	06/10/2009 11:34	0.0	0.0	0.2
240	06/10/2009 11:35	0.0	0.0	0.3
241	06/10/2009 11:36	0.0	0.0	0.1
242	06/10/2009 11:37	0.0	0.0	0.2
243	06/10/2009 11:38	0.0	0.0	0.3
244	06/10/2009 11:39	0.0	0.0	0.2
245	06/10/2009 11:40	0.0	0.0	0.1
246	06/10/2009 11:41	0.0	0.1	0.2
247	06/10/2009 11:42	0.0	0.0	0.1
248	06/10/2009 11:43	0.0	0.1	0.3
249	06/10/2009 11:44	0.0	0.0	0.2



250	06/10/2009 11:45	0.0	0.1	0.4
251	06/10/2009 11:46	0.0	0.1	0.2
252	06/10/2009 11:47	0.0	0.0	0.2
253	06/10/2009 11:48	0.0	0.0	0.1
254	06/10/2009 11:49	0.0	0.0	0.1
255	06/10/2009 11:50	0.0	0.0	0.6
256	06/10/2009 11:51	0.0	0.0	0.1
257	06/10/2009 11:52	0.0	0.1	0.2
258	06/10/2009 11:53	0.0	0.0	0.1
259	06/10/2009 11:54	0.0	0.0	0.1
260	06/10/2009 11:55	0.0	0.0	0.1
261	06/10/2009 11:56	0.0	0.0	0.1
262	06/10/2009 11:57	0.0	0.0	0.1
263	06/10/2009 11:58	0.0	0.1	0.4
264	06/10/2009 11:59	0.0	0.0	0.1
265	06/10/2009 12:00	0.0	0.0	0.1
266	06/10/2009 12:01	0.0	0.0	0.1
267	06/10/2009 12:02	0.0	0.0	0.1
268	06/10/2009 12:03	0.0	0.1	2.3
269	06/10/2009 12:04	0.0	0.0	0.1
270	06/10/2009 12:05	0.0	0.1	0.2
271	06/10/2009 12:06	0.0	0.0	0.1
272	06/10/2009 12:07	0.0	0.1	0.3
273	06/10/2009 12:08	0.0	0.1	0.2
274	06/10/2009 12:09	0.0	0.1	0.3
275	06/10/2009 12:10	0.0	0.0	0.2
276	06/10/2009 12:11	0.0	0.0	0.1
277	06/10/2009 12:12	0.0	0.0	0.1
278	06/10/2009 12:13	0.0	0.1	0.3
279	06/10/2009 12:14	0.1	0.1	0.3
280	06/10/2009 12:15	0.0	0.1	0.3
281	06/10/2009 12:16	0.0	0.1	0.4
282	06/10/2009 12:17	0.0	0.1	0.2
283	06/10/2009 12:18	0.1	0.1	0.2
284	06/10/2009 12:19	0.1	0.1	0.2
285	06/10/2009 12:20	0.1	0.1	0.2
286	06/10/2009 12:21	0.1	0.1	0.2
287	06/10/2009 12:22	0.1	0.1	0.5
288	06/10/2009 12:23	0.1	0.1	0.4
289	06/10/2009 12:24	0.1	0.1	0.2
290	06/10/2009 12:25	0.0	0.1	0.3
291	06/10/2009 12:26	0.1	0.1	0.3
292	06/10/2009 12:27	0.1	0.1	0.3
293	06/10/2009 12:28	0.1	0.1	0.3
294	06/10/2009 12:29	0.1	0.1	0.3
295	06/10/2009 12:30	0.1	0.1	0.2
296	06/10/2009 12:31	0.1	0.1	0.2
297	06/10/2009 12:32	0.1	0.1	0.2
298	06/10/2009 12:33	0.0	0.0	0.2
299	06/10/2009 12:34	0.1	0.1	0.3
300	06/10/2009 12:35	0.1	0.1	0.2
301	06/10/2009 12:36	0.0	0.1	1.0

302	06/10/2009 12:37	0.1	0.1	0.2
303	06/10/2009 12:38	0.1	0.1	0.3
304	06/10/2009 12:39	0.1	0.1	0.4
305	06/10/2009 12:40	0.0	0.1	0.4
306	06/10/2009 12:41	0.1	0.1	0.3
307	06/10/2009 12:42	0.1	0.1	0.3
308	06/10/2009 12:43	0.1	0.1	0.3
309	06/10/2009 12:44	0.1	0.1	0.4
310	06/10/2009 12:45	0.1	0.1	0.2
311	06/10/2009 12:46	0.1	0.2	0.4
312	06/10/2009 12:47	0.0	0.1	0.2
313	06/10/2009 12:48	0.1	0.1	0.2
314	06/10/2009 12:49	0.1	0.1	0.2
315	06/10/2009 12:50	0.1	0.1	0.2
316	06/10/2009 12:51	0.1	0.1	0.2
317	06/10/2009 12:52	0.0	0.1	0.2
318	06/10/2009 12:53	0.1	0.1	0.2
319	06/10/2009 12:54	0.1	0.2	0.4
320	06/10/2009 12:55	0.1	0.1	0.2
321	06/10/2009 12:56	0.1	0.1	0.2
322	06/10/2009 12:57	0.1	0.1	0.2
323	06/10/2009 12:58	0.1	0.1	0.3
324	06/10/2009 12:59	0.1	0.1	0.3
325	06/10/2009 13:00	0.1	0.2	0.5
326	06/10/2009 13:01	0.1	0.1	0.2
327	06/10/2009 13:02	0.1	0.1	0.2
328	06/10/2009 13:03	0.1	0.1	0.3
329	06/10/2009 13:04	0.1	0.1	0.3
330	06/10/2009 13:05	0.1	0.1	0.2
331	06/10/2009 13:06	0.1	0.1	0.2
332	06/10/2009 13:07	0.1	0.1	0.2
333	06/10/2009 13:08	0.1	0.1	0.2
334	06/10/2009 13:09	0.1	0.1	0.2
335	06/10/2009 13:10	0.1	0.1	0.4
336	06/10/2009 13:11	0.1	0.3	1.0
337	06/10/2009 13:12	0.1	0.1	0.3
338	06/10/2009 13:13	0.1	0.1	0.2
339	06/10/2009 13:14	0.1	0.1	0.2
340	06/10/2009 13:15	0.1	0.1	0.2
341	06/10/2009 13:16	0.1	0.1	0.2
342	06/10/2009 13:17	0.1	0.1	0.2
343	06/10/2009 13:18	0.1	0.1	0.2
344	06/10/2009 13:19	0.1	0.1	0.2
345	06/10/2009 13:20	0.1	0.1	0.2
346	06/10/2009 13:21	0.0	0.2	0.4
347	06/10/2009 13:22	0.1	0.2	0.3
348	06/10/2009 13:23	0.1	0.1	0.1
349	06/10/2009 13:24	0.0	0.1	0.2
350	06/10/2009 13:25	0.1	0.1	0.2
351	06/10/2009 13:26	0.1	0.1	0.2
352	06/10/2009 13:27	0.1	0.1	0.3
353	06/10/2009 13:28	0.1	0.1	0.3

354	06/10/2009 13:29	0.1	0.1	0.7
355	06/10/2009 13:30	0.1	0.1	0.3
356	06/10/2009 13:31	0.1	0.1	0.2
357	06/10/2009 13:32	0.1	0.1	0.2
358	06/10/2009 13:33	0.1	0.1	0.2
359	06/10/2009 13:34	0.0	0.1	0.2
360	06/10/2009 13:35	0.1	0.1	0.2
361	06/10/2009 13:36	0.1	0.1	0.2
362	06/10/2009 13:37	0.0	0.1	0.2
363	06/10/2009 13:38	0.1	0.1	0.2
364	06/10/2009 13:39	0.1	0.1	0.2
365	06/10/2009 13:40	0.1	0.1	0.3
366	06/10/2009 13:41	0.1	0.1	0.3
367	06/10/2009 13:42	0.1	0.2	0.3
368	06/10/2009 13:43	0.1	0.1	0.2
369	06/10/2009 13:44	0.1	0.1	0.2
370	06/10/2009 13:45	0.1	0.1	0.2
371	06/10/2009 13:46	0.2	0.2	0.4
372	06/10/2009 13:47	0.1	0.1	0.3
373	06/10/2009 13:48	0.1	0.1	0.2
374	06/10/2009 13:49	0.1	0.1	0.2
375	06/10/2009 13:50	0.1	0.1	0.2
376	06/10/2009 13:51	0.1	0.1	0.2
377	06/10/2009 13:52	0.1	0.1	0.2
378	06/10/2009 13:53	0.1	0.1	0.2
379	06/10/2009 13:54	0.1	0.2	0.6
380	06/10/2009 13:55	0.1	0.3	0.8
381	06/10/2009 13:56	0.1	0.4	1.0
382	06/10/2009 13:57	0.1	0.2	0.6
383	06/10/2009 13:58	0.1	0.1	0.2
384	06/10/2009 13:59	0.1	0.1	0.2
385	06/10/2009 14:00	0.1	0.1	0.2
386	06/10/2009 14:01	0.1	0.1	0.2
387	06/10/2009 14:02	0.1	0.2	0.4
388	06/10/2009 14:03	0.2	0.2	0.4
389	06/10/2009 14:04	0.1	0.2	0.6
390	06/10/2009 14:05	0.1	0.1	0.3
391	06/10/2009 14:06	0.1	0.1	0.3
392	06/10/2009 14:07	0.1	0.1	0.2
393	06/10/2009 14:08	0.1	0.1	0.2
394	06/10/2009 14:09	0.2	0.2	0.4
395	06/10/2009 14:10	0.2	0.2	0.6
396	06/10/2009 14:11	0.2	0.2	0.5
397	06/10/2009 14:12	0.1	0.2	0.4
398	06/10/2009 14:13	0.2	0.2	0.6
399	06/10/2009 14:14	0.2	0.2	0.3
400	06/10/2009 14:15	0.2	0.2	0.3
401	06/10/2009 14:16	0.2	0.2	0.3
402	06/10/2009 14:17	0.2	0.2	0.4
403	06/10/2009 14:18	0.1	0.1	0.3
404	06/10/2009 14:19	0.1	0.1	0.2
405	06/10/2009 14:20	0.1	0.1	0.2

406	06/10/2009 14:21	0.1	0.1	0.2
407	06/10/2009 14:22	0.1	0.2	0.3
408	06/10/2009 14:23	0.1	0.1	0.3
409	06/10/2009 14:24	0.1	0.1	0.2
410	06/10/2009 14:25	0.1	0.2	0.3
411	06/10/2009 14:26	0.1	0.2	0.3
412	06/10/2009 14:27	0.2	0.2	0.4
413	06/10/2009 14:28	0.2	0.2	0.3
414	06/10/2009 14:29	0.2	0.2	0.3
415	06/10/2009 14:30	0.1	0.1	0.3
416	06/10/2009 14:31	0.1	0.1	0.3
417	06/10/2009 14:32	0.1	0.1	0.3
418	06/10/2009 14:33	0.2	0.2	0.3
419	06/10/2009 14:34	0.1	0.2	0.4
420	06/10/2009 14:35	0.1	0.1	0.2
421	06/10/2009 14:36	0.2	0.2	0.3
422	06/10/2009 14:37	0.1	0.2	0.3
423	06/10/2009 14:38	0.2	0.2	0.3
424	06/10/2009 14:39	0.1	0.2	0.5
425	06/10/2009 14:40	0.2	0.2	0.3
426	06/10/2009 14:41	0.2	0.2	0.4
427	06/10/2009 14:42	0.1	0.1	0.5
428	06/10/2009 14:43	0.1	0.1	0.4
429	06/10/2009 14:44	0.1	0.1	0.2
430	06/10/2009 14:45	0.1	0.1	0.3
431	06/10/2009 14:46	0.1	0.2	0.3
432	06/10/2009 14:47	0.1	0.1	0.2
433	06/10/2009 14:48	0.1	0.2	0.4
434	06/10/2009 14:49	0.1	0.2	0.8
435	06/10/2009 14:50	0.1	0.2	0.4
436	06/10/2009 14:51	0.1	0.2	0.6
437	06/10/2009 14:52	0.1	0.1	0.4
438	06/10/2009 14:53	0.1	0.1	0.3
439	06/10/2009 14:54	0.1	0.2	0.6
440	06/10/2009 14:55	0.1	0.2	0.4
441	06/10/2009 14:56	0.2	0.3	0.7
442	06/10/2009 14:57	0.2	0.2	0.3
443	06/10/2009 14:58	0.1	0.2	0.3
444	06/10/2009 14:59	0.1	0.1	0.3
445	06/10/2009 15:00	0.2	0.2	0.3
446	06/10/2009 15:01	0.1	0.2	0.4
447	06/10/2009 15:02	0.2	0.2	0.3
448	06/10/2009 15:03	0.2	0.2	0.6
449	06/10/2009 15:04	0.1	0.2	0.4
450	06/10/2009 15:05	0.2	0.2	0.6
451	06/10/2009 15:06	0.2	0.3	0.5
452	06/10/2009 15:07	0.2	0.3	0.6
453	06/10/2009 15:08	0.1	0.2	0.3
454	06/10/2009 15:09	0.1	0.2	0.3
455	06/10/2009 15:10	0.1	0.1	0.3
456	06/10/2009 15:11	0.1	0.2	0.4
457	06/10/2009 15:12	0.1	0.2	0.4

458	06/10/2009 15:13	0.1	0.2	0.3
459	06/10/2009 15:14	0.1	0.2	0.5
460	06/10/2009 15:15	0.1	0.2	0.3
461	06/10/2009 15:16	0.1	0.2	0.3
462	06/10/2009 15:17	0.1	0.2	0.3
463	06/10/2009 15:18	0.1	0.2	0.4
464	06/10/2009 15:19	0.1	0.2	0.5
465	06/10/2009 15:20	0.1	0.2	0.4
466	06/10/2009 15:21	0.1	0.2	0.3
467	06/10/2009 15:22	0.1	0.2	0.3
468	06/10/2009 15:23	0.2	0.2	0.4
469	06/10/2009 15:24	0.2	0.2	0.5
470	06/10/2009 15:25	0.1	0.2	0.3
471	06/10/2009 15:26	0.2	0.2	0.3
472	06/10/2009 15:27	0.2	0.2	0.5
473	06/10/2009 15:28	0.1	0.2	0.3
474	06/10/2009 15:29	0.2	0.2	0.6
475	06/10/2009 15:30	0.2	0.3	0.6
476	06/10/2009 15:31	0.2	0.2	1.1
477	06/10/2009 15:32	0.2	0.3	0.6
478	06/10/2009 15:33	0.1	0.2	0.6
479	06/10/2009 15:34	0.1	0.2	0.8
480	06/10/2009 15:35	0.1	0.1	0.3
481	06/10/2009 15:36	0.1	0.2	0.6
482	06/10/2009 15:37	0.1	0.2	0.5
483	06/10/2009 15:38	0.1	0.1	0.2
484	06/10/2009 15:39	0.1	0.1	0.2
485	06/10/2009 15:40	0.1	0.1	0.3
486	06/10/2009 15:41	0.1	0.1	0.3
487	06/10/2009 15:42	0.1	0.2	0.3
488	06/10/2009 15:43	0.1	0.1	0.2
489	06/10/2009 15:44	0.1	0.2	0.3
490	06/10/2009 15:45	0.2	0.2	0.4
491	06/10/2009 15:46	0.2	0.2	0.3
492	06/10/2009 15:47	0.1	0.3	0.5
493	06/10/2009 15:48	0.2	0.4	0.7
494	06/10/2009 15:49	0.2	0.5	0.8
495	06/10/2009 15:50	0.2	0.5	0.8
496	06/10/2009 15:51	0.2	0.2	0.6
497	06/10/2009 15:52	0.2	0.2	0.5
498	06/10/2009 15:53	0.2	0.2	0.4
499	06/10/2009 15:54	0.1	0.2	0.6
500	06/10/2009 15:55	0.1	0.1	0.3
501	06/10/2009 15:56	0.1	0.2	0.3
502	06/10/2009 15:57	0.1	0.1	0.3
503	06/10/2009 15:58	0.1	0.2	0.3
504	06/10/2009 15:59	0.1	0.2	0.5
505	06/10/2009 16:00	0.1	0.1	0.3
506	06/10/2009 16:01	0.1	0.2	0.4
507	06/10/2009 16:02	0.1	0.2	0.6
508	06/10/2009 16:03	0.1	0.2	0.3
509	06/10/2009 16:04	0.1	0.2	0.6

510	06/10/2009 16:05	0.1	0.2	0.9
511	06/10/2009 16:06	0.1	0.1	0.4
512	06/10/2009 16:07	0.1	0.2	0.5
513	06/10/2009 16:08	0.1	0.2	0.5
514	06/10/2009 16:09	0.1	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 578 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:      25.0        25.0        25.0
Low Alarm Levels:       5.0         5.0         5.0
=====
```

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

```
1 06/10/2009 07:00      0.0        0.0        0.0
2 06/10/2009 07:01      0.0        0.0        0.0
3 06/10/2009 07:02      0.0        0.0        0.0
4 06/10/2009 07:03      0.0        0.0        0.0
5 06/10/2009 07:04      0.0        0.0        0.0
6 06/10/2009 07:05      0.0        0.0        0.0
7 06/10/2009 07:06      0.0        0.0        0.0
8 06/10/2009 07:07      0.0        0.0        0.0
9 06/10/2009 07:08      0.0        0.0        0.0
10 06/10/2009 07:09      0.0        0.0        0.0
11 06/10/2009 07:10      0.0        0.0        0.0
12 06/10/2009 07:11      0.0        0.0        0.0
13 06/10/2009 07:12      0.0        0.0        0.0
14 06/10/2009 07:13      0.0        0.0        0.0
15 06/10/2009 07:14      0.0        0.0        0.0
16 06/10/2009 07:15      0.0        0.0        0.0
17 06/10/2009 07:16      0.0        0.0        0.0
18 06/10/2009 07:17      0.0        0.0        0.0
19 06/10/2009 07:18      0.0        0.0        0.0
20 06/10/2009 07:19      0.0        0.0        0.0
21 06/10/2009 07:20      0.0        0.0        0.0
22 06/10/2009 07:21      0.0        0.0        0.0
23 06/10/2009 07:22      0.0        0.0        0.0
24 06/10/2009 07:23      0.0        0.0        0.0
25 06/10/2009 07:24      0.0        0.0        0.0
26 06/10/2009 07:25      0.0        0.0        0.0
27 06/10/2009 07:26      0.0        0.0        0.0
28 06/10/2009 07:27      0.0        0.0        0.0
29 06/10/2009 07:28      0.0        0.0        0.0
30 06/10/2009 07:29      0.0        0.0        0.0
31 06/10/2009 07:30      0.0        0.0        0.0
32 06/10/2009 07:31      0.0        0.0        0.0
33 06/10/2009 07:32      0.0        0.0        0.0
34 06/10/2009 07:33      0.0        0.0        0.0
35 06/10/2009 07:34      0.0        0.0        0.0
36 06/10/2009 07:35      0.0        0.0        0.0
37 06/10/2009 07:36      0.0        0.0        0.0
38 06/10/2009 07:37      0.0        0.0        0.0
39 06/10/2009 07:38      0.0        0.0        0.0
40 06/10/2009 07:39      0.0        0.0        0.0
41 06/10/2009 07:40      0.0        0.0        0.0
```



42	06/10/2009 07:41	0.0	0.0	0.0
43	06/10/2009 07:42	0.0	0.0	0.0
44	06/10/2009 07:43	0.0	0.0	0.0
45	06/10/2009 07:44	0.0	0.0	0.0
46	06/10/2009 07:45	0.0	0.0	0.0
47	06/10/2009 07:46	0.0	0.0	0.0
48	06/10/2009 07:47	0.0	0.0	0.0
49	06/10/2009 07:48	0.0	0.0	0.0
50	06/10/2009 07:49	0.0	0.0	0.0
51	06/10/2009 07:50	0.0	0.0	0.0
52	06/10/2009 07:51	0.0	0.0	0.0
53	06/10/2009 07:52	0.0	0.0	0.0
54	06/10/2009 07:53	0.0	0.0	0.0
55	06/10/2009 07:54	0.0	0.0	0.0
56	06/10/2009 07:55	0.0	0.0	0.0
57	06/10/2009 07:56	0.0	0.0	0.0
58	06/10/2009 07:57	0.0	0.0	0.0
59	06/10/2009 07:58	0.0	0.0	0.0
60	06/10/2009 07:59	0.0	0.0	0.0
61	06/10/2009 08:00	0.0	0.0	0.0
62	06/10/2009 08:01	0.0	0.0	0.0
63	06/10/2009 08:02	0.0	0.0	0.0
64	06/10/2009 08:03	0.0	0.0	0.0
65	06/10/2009 08:04	0.0	0.0	0.0
66	06/10/2009 08:05	0.0	0.0	0.0
67	06/10/2009 08:06	0.0	0.0	0.0
68	06/10/2009 08:07	0.0	0.0	0.0
69	06/10/2009 08:08	0.0	0.0	0.0
70	06/10/2009 08:09	0.0	0.0	0.0
71	06/10/2009 08:10	0.0	0.0	0.0
72	06/10/2009 08:11	0.0	0.0	0.0
73	06/10/2009 08:12	0.0	0.0	0.0
74	06/10/2009 08:13	0.0	0.0	0.0
75	06/10/2009 08:14	0.0	0.0	0.0
76	06/10/2009 08:15	0.0	0.0	0.0
77	06/10/2009 08:16	0.0	0.0	0.0
78	06/10/2009 08:17	0.0	0.0	0.0
79	06/10/2009 08:18	0.0	0.0	0.0
80	06/10/2009 08:19	0.0	0.0	0.0
81	06/10/2009 08:20	0.0	0.0	0.0
82	06/10/2009 08:21	0.0	0.0	0.0
83	06/10/2009 08:22	0.0	0.0	0.0
84	06/10/2009 08:23	0.0	0.0	0.0
85	06/10/2009 08:24	0.0	0.0	0.0
86	06/10/2009 08:25	0.0	0.0	0.0
87	06/10/2009 08:26	0.0	0.0	0.0
88	06/10/2009 08:27	0.0	0.0	0.0
89	06/10/2009 08:28	0.0	0.0	0.0
90	06/10/2009 08:29	0.0	0.0	0.0
91	06/10/2009 08:30	0.0	0.0	0.0
92	06/10/2009 08:31	0.0	0.0	0.0
93	06/10/2009 08:32	0.0	0.0	0.0

94	06/10/2009 08:33	0.0	0.0	0.0
95	06/10/2009 08:34	0.0	0.0	0.0
96	06/10/2009 08:35	0.0	0.0	0.0
97	06/10/2009 08:36	0.0	0.0	0.1
98	06/10/2009 08:37	0.0	0.0	0.0
99	06/10/2009 08:38	0.0	0.0	0.0
100	06/10/2009 08:39	0.0	0.0	0.0
101	06/10/2009 08:40	0.0	0.0	0.0
102	06/10/2009 08:41	0.0	0.0	0.0
103	06/10/2009 08:42	0.0	0.0	0.0
104	06/10/2009 08:43	0.0	0.0	0.0
105	06/10/2009 08:44	0.0	0.0	0.1
106	06/10/2009 08:45	0.0	0.0	0.1
107	06/10/2009 08:46	0.0	0.0	0.0
108	06/10/2009 08:47	0.0	0.0	0.0
109	06/10/2009 08:48	0.0	0.0	0.1
110	06/10/2009 08:49	0.0	0.0	0.1
111	06/10/2009 08:50	0.0	0.0	0.0
112	06/10/2009 08:51	0.0	0.0	0.0
113	06/10/2009 08:52	0.0	0.0	0.1
114	06/10/2009 08:53	0.1	0.1	0.1
115	06/10/2009 08:54	0.0	0.0	0.1
116	06/10/2009 08:55	0.0	0.0	0.1
117	06/10/2009 08:56	0.0	0.0	0.1
118	06/10/2009 08:57	0.0	0.0	0.1
119	06/10/2009 08:58	0.0	0.0	0.0
120	06/10/2009 08:59	0.0	0.0	0.0
121	06/10/2009 09:00	0.0	0.0	0.0
122	06/10/2009 09:01	0.0	0.0	0.0
123	06/10/2009 09:02	0.0	0.0	0.1
124	06/10/2009 09:03	0.0	0.0	0.1
125	06/10/2009 09:04	0.0	0.0	0.1
126	06/10/2009 09:05	0.0	0.0	0.1
127	06/10/2009 09:06	0.0	0.0	0.1
128	06/10/2009 09:07	0.0	0.0	0.1
129	06/10/2009 09:08	0.0	0.0	0.1
130	06/10/2009 09:09	0.0	0.0	0.1
131	06/10/2009 09:10	0.0	0.0	0.1
132	06/10/2009 09:11	0.0	0.0	0.1
133	06/10/2009 09:12	0.0	0.0	0.1
134	06/10/2009 09:13	0.0	0.0	0.1
135	06/10/2009 09:14	0.0	0.0	0.0
136	06/10/2009 09:15	0.0	0.0	0.0
137	06/10/2009 09:16	0.0	0.0	0.0
138	06/10/2009 09:17	0.0	0.0	0.0
139	06/10/2009 09:18	0.0	0.0	0.1
140	06/10/2009 09:19	0.0	0.0	0.1
141	06/10/2009 09:20	0.0	0.0	0.1
142	06/10/2009 09:21	0.0	0.0	0.0
143	06/10/2009 09:22	0.0	0.0	0.1
144	06/10/2009 09:23	0.0	0.0	0.1
145	06/10/2009 09:24	0.0	0.0	0.1

146	06/10/2009 09:25	0.0	0.0	0.1
147	06/10/2009 09:26	0.1	0.1	0.1
148	06/10/2009 09:27	0.1	0.1	0.1
149	06/10/2009 09:28	0.0	0.0	0.1
150	06/10/2009 09:29	0.0	0.0	0.1
151	06/10/2009 09:30	0.1	0.1	0.1
152	06/10/2009 09:31	0.1	0.1	0.1
153	06/10/2009 09:32	0.0	0.0	0.1
154	06/10/2009 09:33	0.0	0.0	0.1
155	06/10/2009 09:34	0.0	0.0	0.1
156	06/10/2009 09:35	0.0	0.0	0.1
157	06/10/2009 09:36	0.0	0.0	0.1
158	06/10/2009 09:37	0.1	0.1	0.1
159	06/10/2009 09:38	0.1	0.1	0.1
160	06/10/2009 09:39	0.1	0.1	0.1
161	06/10/2009 09:40	0.1	0.1	0.1
162	06/10/2009 09:41	0.1	0.1	0.1
163	06/10/2009 09:42	0.1	0.1	0.1
164	06/10/2009 09:43	0.1	0.1	0.1
165	06/10/2009 09:44	0.1	0.1	0.1
166	06/10/2009 09:45	0.1	0.1	0.1
167	06/10/2009 09:46	0.1	0.1	0.1
168	06/10/2009 09:47	0.1	0.1	0.1
169	06/10/2009 09:48	0.1	0.1	0.1
170	06/10/2009 09:49	0.1	0.1	0.1
171	06/10/2009 09:50	0.1	0.1	0.1
172	06/10/2009 09:51	0.1	0.1	0.1
173	06/10/2009 09:52	0.1	0.1	0.1
174	06/10/2009 09:53	0.1	0.1	0.1
175	06/10/2009 09:54	0.1	0.1	0.1
176	06/10/2009 09:55	0.1	0.1	0.1
177	06/10/2009 09:56	0.1	0.1	0.1
178	06/10/2009 09:57	0.1	0.1	0.1
179	06/10/2009 09:58	0.1	0.1	0.1
180	06/10/2009 09:59	0.1	0.1	0.1
181	06/10/2009 10:00	0.1	0.1	0.1
182	06/10/2009 10:01	0.1	0.1	0.1
183	06/10/2009 10:02	0.1	0.1	0.1
184	06/10/2009 10:03	0.1	0.1	0.1
185	06/10/2009 10:04	0.1	0.1	0.1
186	06/10/2009 10:05	0.1	0.1	0.1
187	06/10/2009 10:06	0.1	0.1	0.1
188	06/10/2009 10:07	0.1	0.1	0.1
189	06/10/2009 10:08	0.1	0.1	0.1
190	06/10/2009 10:09	0.1	0.1	0.1
191	06/10/2009 10:10	0.1	0.1	0.1
192	06/10/2009 10:11	0.1	0.1	0.1
193	06/10/2009 10:12	0.1	0.1	0.1
194	06/10/2009 10:13	0.1	0.1	0.1
195	06/10/2009 10:14	0.1	0.1	0.1
196	06/10/2009 10:15	0.1	0.1	0.1
197	06/10/2009 10:16	0.1	0.1	0.1

198	06/10/2009 10:17	0.1	0.1	0.1
199	06/10/2009 10:18	0.1	0.1	0.1
200	06/10/2009 10:19	0.1	0.1	0.1
201	06/10/2009 10:20	0.1	0.1	0.1
202	06/10/2009 10:21	0.1	0.1	0.1
203	06/10/2009 10:22	0.1	0.1	0.1
204	06/10/2009 10:23	0.1	0.1	0.1
205	06/10/2009 10:24	0.1	0.1	0.1
206	06/10/2009 10:25	0.1	0.1	0.1
207	06/10/2009 10:26	0.1	0.1	0.1
208	06/10/2009 10:27	0.1	0.1	0.1
209	06/10/2009 10:28	0.1	0.1	0.1
210	06/10/2009 10:29	0.1	0.1	0.1
211	06/10/2009 10:30	0.1	0.1	0.1
212	06/10/2009 10:31	0.1	0.1	0.1
213	06/10/2009 10:32	0.1	0.1	0.2
214	06/10/2009 10:33	0.1	0.1	0.1
215	06/10/2009 10:34	0.1	0.1	0.1
216	06/10/2009 10:35	0.1	0.1	0.1
217	06/10/2009 10:36	0.1	0.1	0.1
218	06/10/2009 10:37	0.1	0.1	0.2
219	06/10/2009 10:38	0.1	0.1	0.1
220	06/10/2009 10:39	0.1	0.1	0.1
221	06/10/2009 10:40	0.1	0.1	0.1
222	06/10/2009 10:41	0.1	0.1	0.1
223	06/10/2009 10:42	0.1	0.1	0.1
224	06/10/2009 10:43	0.1	0.1	0.1
225	06/10/2009 10:44	0.1	0.1	0.1
226	06/10/2009 10:45	0.1	0.1	0.1
227	06/10/2009 10:46	0.1	0.1	0.1
228	06/10/2009 10:47	0.1	0.1	0.1
229	06/10/2009 10:48	0.1	0.1	0.1
230	06/10/2009 10:49	0.1	0.1	0.1
231	06/10/2009 10:50	0.1	0.1	0.1
232	06/10/2009 10:51	0.1	0.1	0.1
233	06/10/2009 10:52	0.1	0.1	0.1
234	06/10/2009 10:53	0.1	0.1	0.1
235	06/10/2009 10:54	0.1	0.1	0.1
236	06/10/2009 10:55	0.1	0.1	0.1
237	06/10/2009 10:56	0.1	0.1	0.1
238	06/10/2009 10:57	0.1	0.1	0.1
239	06/10/2009 10:58	0.1	0.1	0.1
240	06/10/2009 10:59	0.1	0.1	0.1
241	06/10/2009 11:00	0.1	0.1	0.2
242	06/10/2009 11:01	0.1	0.1	0.1
243	06/10/2009 11:02	0.1	0.1	0.1
244	06/10/2009 11:03	0.1	0.1	0.1
245	06/10/2009 11:04	0.1	0.1	0.1
246	06/10/2009 11:05	0.1	0.1	0.1
247	06/10/2009 11:06	0.1	0.1	0.1
248	06/10/2009 11:07	0.1	0.1	0.1
249	06/10/2009 11:08	0.1	0.1	0.1

250	06/10/2009 11:09	0.1	0.1	0.1
251	06/10/2009 11:10	0.1	0.1	0.1
252	06/10/2009 11:11	0.1	0.1	0.1
253	06/10/2009 11:12	0.1	0.1	0.1
254	06/10/2009 11:13	0.1	0.1	0.2
255	06/10/2009 11:14	0.1	0.1	0.1
256	06/10/2009 11:15	0.1	0.1	0.1
257	06/10/2009 11:16	0.1	0.1	0.1
258	06/10/2009 11:17	0.1	0.1	0.1
259	06/10/2009 11:18	0.1	0.1	0.1
260	06/10/2009 11:19	0.1	0.1	0.1
261	06/10/2009 11:20	0.1	0.1	0.1
262	06/10/2009 11:21	0.1	0.1	0.1
263	06/10/2009 11:22	0.1	0.1	0.1
264	06/10/2009 11:23	0.1	0.1	0.1
265	06/10/2009 11:24	0.1	0.1	0.1
266	06/10/2009 11:25	0.1	0.1	0.1
267	06/10/2009 11:26	0.1	0.1	0.1
268	06/10/2009 11:27	0.1	0.1	0.1
269	06/10/2009 11:28	0.1	0.1	0.1
270	06/10/2009 11:29	0.1	0.1	0.1
271	06/10/2009 11:30	0.1	0.1	0.1
272	06/10/2009 11:31	0.1	0.1	0.1
273	06/10/2009 11:32	0.1	0.1	0.1
274	06/10/2009 11:33	0.1	0.1	0.1
275	06/10/2009 11:34	0.1	0.1	0.1
276	06/10/2009 11:35	0.1	0.1	0.1
277	06/10/2009 11:36	0.1	0.1	0.1
278	06/10/2009 11:37	0.1	0.1	0.1
279	06/10/2009 11:38	0.1	0.1	0.1
280	06/10/2009 11:39	0.1	0.1	0.1
281	06/10/2009 11:40	0.1	0.1	0.1
282	06/10/2009 11:41	0.1	0.1	0.1
283	06/10/2009 11:42	0.1	0.1	0.1
284	06/10/2009 11:43	0.1	0.1	0.1
285	06/10/2009 11:44	0.1	0.1	0.1
286	06/10/2009 11:45	0.1	0.1	0.1
287	06/10/2009 11:46	0.1	0.1	0.1
288	06/10/2009 11:47	0.1	0.1	0.2
289	06/10/2009 11:48	0.1	0.1	0.1
290	06/10/2009 11:49	0.1	0.1	0.1
291	06/10/2009 11:50	0.1	0.1	0.2
292	06/10/2009 11:51	0.1	0.1	0.2
293	06/10/2009 11:52	0.1	0.1	0.2
294	06/10/2009 11:53	0.1	0.1	0.2
295	06/10/2009 11:54	0.1	0.1	0.2
296	06/10/2009 11:55	0.1	0.1	0.2
297	06/10/2009 11:56	0.1	0.1	0.1
298	06/10/2009 11:57	0.1	0.1	0.1
299	06/10/2009 11:58	0.1	0.1	0.1
300	06/10/2009 11:59	0.1	0.1	0.1
301	06/10/2009 12:00	0.1	0.1	0.1

302	06/10/2009 12:01	0.1	0.1	0.1
303	06/10/2009 12:02	0.1	0.1	0.1
304	06/10/2009 12:03	0.1	0.1	0.1
305	06/10/2009 12:04	0.1	0.1	0.1
306	06/10/2009 12:05	0.1	0.1	0.1
307	06/10/2009 12:06	0.1	0.1	0.1
308	06/10/2009 12:07	0.1	0.1	0.1
309	06/10/2009 12:08	0.1	0.1	0.1
310	06/10/2009 12:09	0.1	0.1	0.1
311	06/10/2009 12:10	0.1	0.1	0.2
312	06/10/2009 12:11	0.1	0.1	0.2
313	06/10/2009 12:12	0.1	0.1	0.1
314	06/10/2009 12:13	0.1	0.1	0.1
315	06/10/2009 12:14	0.1	0.1	0.2
316	06/10/2009 12:15	0.1	0.1	0.2
317	06/10/2009 12:16	0.1	0.1	0.1
318	06/10/2009 12:17	0.1	0.1	0.1
319	06/10/2009 12:18	0.1	0.1	0.1
320	06/10/2009 12:19	0.1	0.1	0.1
321	06/10/2009 12:20	0.1	0.1	0.2
322	06/10/2009 12:21	0.1	0.1	0.1
323	06/10/2009 12:22	0.1	0.1	0.1
324	06/10/2009 12:23	0.1	0.1	0.1
325	06/10/2009 12:24	0.1	0.1	0.1
326	06/10/2009 12:25	0.1	0.1	0.1
327	06/10/2009 12:26	0.1	0.1	0.1
328	06/10/2009 12:27	0.1	0.1	0.1
329	06/10/2009 12:28	0.1	0.1	0.1
330	06/10/2009 12:29	0.1	0.1	0.1
331	06/10/2009 12:30	0.1	0.1	0.1
332	06/10/2009 12:31	0.1	0.1	0.1
333	06/10/2009 12:32	0.1	0.1	0.1
334	06/10/2009 12:33	0.1	0.1	0.2
335	06/10/2009 12:34	0.1	0.1	0.2
336	06/10/2009 12:35	0.1	0.1	0.2
337	06/10/2009 12:36	0.1	0.1	0.2
338	06/10/2009 12:37	0.1	0.1	0.2
339	06/10/2009 12:38	0.1	0.1	0.1
340	06/10/2009 12:39	0.1	0.1	0.1
341	06/10/2009 12:40	0.1	0.1	0.1
342	06/10/2009 12:41	0.1	0.1	0.2
343	06/10/2009 12:42	0.1	0.1	0.2
344	06/10/2009 12:43	0.1	0.1	0.2
345	06/10/2009 12:44	0.1	0.1	0.2
346	06/10/2009 12:45	0.1	0.1	0.2
347	06/10/2009 12:46	0.1	0.1	0.2
348	06/10/2009 12:47	0.1	0.1	0.2
349	06/10/2009 12:48	0.1	0.1	0.2
350	06/10/2009 12:49	0.1	0.1	0.2
351	06/10/2009 12:50	0.1	0.1	0.2
352	06/10/2009 12:51	0.1	0.1	0.2
353	06/10/2009 12:52	0.1	0.1	0.2

354	06/10/2009 12:53	0.1	0.1	0.2
355	06/10/2009 12:54	0.1	0.1	0.2
356	06/10/2009 12:55	0.1	0.1	0.2
357	06/10/2009 12:56	0.1	0.1	0.2
358	06/10/2009 12:57	0.1	0.1	0.2
359	06/10/2009 12:58	0.1	0.1	0.2
360	06/10/2009 12:59	0.2	0.2	0.2
361	06/10/2009 13:00	0.2	0.2	0.2
362	06/10/2009 13:01	0.2	0.2	0.2
363	06/10/2009 13:02	0.2	0.2	0.2
364	06/10/2009 13:03	0.2	0.2	0.2
365	06/10/2009 13:04	0.2	0.2	0.2
366	06/10/2009 13:05	0.2	0.2	0.2
367	06/10/2009 13:06	0.2	0.2	0.2
368	06/10/2009 13:07	0.2	0.2	0.2
369	06/10/2009 13:08	0.1	0.1	0.2
370	06/10/2009 13:09	0.1	0.1	0.2
371	06/10/2009 13:10	0.2	0.2	0.2
372	06/10/2009 13:11	0.1	0.1	0.2
373	06/10/2009 13:12	0.2	0.2	0.2
374	06/10/2009 13:13	0.2	0.2	0.2
375	06/10/2009 13:14	0.2	0.2	0.2
376	06/10/2009 13:15	0.2	0.2	0.2
377	06/10/2009 13:16	0.2	0.2	0.2
378	06/10/2009 13:17	0.2	0.2	0.2
379	06/10/2009 13:18	0.2	0.2	0.2
380	06/10/2009 13:19	0.2	0.2	0.2
381	06/10/2009 13:20	0.2	0.2	0.2
382	06/10/2009 13:21	0.2	0.2	0.2
383	06/10/2009 13:22	0.2	0.2	0.2
384	06/10/2009 13:23	0.2	0.2	0.2
385	06/10/2009 13:24	0.2	0.2	0.2
386	06/10/2009 13:25	0.2	0.2	0.2
387	06/10/2009 13:26	0.2	0.2	0.2
388	06/10/2009 13:27	0.2	0.2	0.2
389	06/10/2009 13:28	0.2	0.2	0.2
390	06/10/2009 13:29	0.2	0.2	0.2
391	06/10/2009 13:30	0.2	0.2	0.2
392	06/10/2009 13:31	0.2	0.2	0.2
393	06/10/2009 13:32	0.2	0.2	0.2
394	06/10/2009 13:33	0.2	0.2	0.2
395	06/10/2009 13:34	0.2	0.2	0.2
396	06/10/2009 13:35	0.2	0.2	0.2
397	06/10/2009 13:36	0.2	0.2	0.2
398	06/10/2009 13:37	0.2	0.2	0.2
399	06/10/2009 13:38	0.2	0.2	0.2
400	06/10/2009 13:39	0.2	0.2	0.2
401	06/10/2009 13:40	0.2	0.2	0.2
402	06/10/2009 13:41	0.2	0.2	0.2
403	06/10/2009 13:42	0.2	0.2	0.2
404	06/10/2009 13:43	0.2	0.2	0.2
405	06/10/2009 13:44	0.2	0.2	0.2



406	06/10/2009 13:45	0.2	0.2	0.2
407	06/10/2009 13:46	0.2	0.2	0.2
408	06/10/2009 13:47	0.2	0.2	0.2
409	06/10/2009 13:48	0.2	0.2	0.2
410	06/10/2009 13:49	0.2	0.2	0.3
411	06/10/2009 13:50	0.2	0.2	0.2
412	06/10/2009 13:51	0.2	0.2	0.3
413	06/10/2009 13:52	0.2	0.2	0.3
414	06/10/2009 13:53	0.2	0.2	0.2
415	06/10/2009 13:54	0.2	0.2	0.2
416	06/10/2009 13:55	0.2	0.2	0.2
417	06/10/2009 13:56	0.2	0.2	0.2
418	06/10/2009 13:57	0.2	0.2	0.2
419	06/10/2009 13:58	0.2	0.2	0.2
420	06/10/2009 13:59	0.2	0.2	0.2
421	06/10/2009 14:00	0.2	0.2	0.2
422	06/10/2009 14:01	0.2	0.2	0.2
423	06/10/2009 14:02	0.2	0.2	0.2
424	06/10/2009 14:03	0.2	0.2	0.2
425	06/10/2009 14:04	0.2	0.2	0.2
426	06/10/2009 14:05	0.2	0.2	0.2
427	06/10/2009 14:06	0.2	0.2	0.2
428	06/10/2009 14:07	0.2	0.2	0.2
429	06/10/2009 14:08	0.2	0.2	0.2
430	06/10/2009 14:09	0.2	0.2	0.2
431	06/10/2009 14:10	0.2	0.2	0.2
432	06/10/2009 14:11	0.2	0.2	0.2
433	06/10/2009 14:12	0.2	0.2	0.2
434	06/10/2009 14:13	0.2	0.2	0.2
435	06/10/2009 14:14	0.2	0.2	0.2
436	06/10/2009 14:15	0.2	0.2	0.2
437	06/10/2009 14:16	0.2	0.2	0.3
438	06/10/2009 14:17	0.2	0.2	0.2
439	06/10/2009 14:18	0.2	0.2	0.2
440	06/10/2009 14:19	0.2	0.2	0.2
441	06/10/2009 14:20	0.2	0.2	0.2
442	06/10/2009 14:21	0.2	0.2	0.2
443	06/10/2009 14:22	0.2	0.2	0.2
444	06/10/2009 14:23	0.2	0.2	0.2
445	06/10/2009 14:24	0.2	0.2	0.2
446	06/10/2009 14:25	0.2	0.2	0.2
447	06/10/2009 14:26	0.2	0.2	0.2
448	06/10/2009 14:27	0.2	0.2	0.2
449	06/10/2009 14:28	0.2	0.2	0.2
450	06/10/2009 14:29	0.2	0.2	0.2
451	06/10/2009 14:30	0.2	0.2	0.2
452	06/10/2009 14:31	0.2	0.2	0.2
453	06/10/2009 14:32	0.2	0.2	0.2
454	06/10/2009 14:33	0.2	0.2	0.2
455	06/10/2009 14:34	0.2	0.2	0.2
456	06/10/2009 14:35	0.2	0.2	0.2
457	06/10/2009 14:36	0.2	0.2	0.2

458	06/10/2009 14:37	0.2	0.2	0.2
459	06/10/2009 14:38	0.2	0.2	0.2
460	06/10/2009 14:39	0.2	0.2	0.2
461	06/10/2009 14:40	0.2	0.2	0.3
462	06/10/2009 14:41	0.2	0.2	0.3
463	06/10/2009 14:42	0.2	0.2	0.3
464	06/10/2009 14:43	0.2	0.2	0.3
465	06/10/2009 14:44	0.2	0.2	0.2
466	06/10/2009 14:45	0.2	0.2	0.2
467	06/10/2009 14:46	0.2	0.2	0.3
468	06/10/2009 14:47	0.2	0.2	0.3
469	06/10/2009 14:48	0.2	0.2	0.3
470	06/10/2009 14:49	0.2	0.2	0.3
471	06/10/2009 14:50	0.2	0.2	0.2
472	06/10/2009 14:51	0.2	0.2	0.3
473	06/10/2009 14:52	0.2	0.2	0.3
474	06/10/2009 14:53	0.2	0.2	0.3
475	06/10/2009 14:54	0.2	0.2	0.3
476	06/10/2009 14:55	0.2	0.2	0.3
477	06/10/2009 14:56	0.2	0.2	0.3
478	06/10/2009 14:57	0.2	0.2	0.3
479	06/10/2009 14:58	0.2	0.2	0.3
480	06/10/2009 14:59	0.2	0.2	0.3
481	06/10/2009 15:00	0.2	0.2	0.3
482	06/10/2009 15:01	0.2	0.2	0.3
483	06/10/2009 15:02	0.2	0.2	0.3
484	06/10/2009 15:03	0.2	0.2	0.3
485	06/10/2009 15:04	0.2	0.2	0.3
486	06/10/2009 15:05	0.2	0.2	0.3
487	06/10/2009 15:06	0.2	0.2	0.3
488	06/10/2009 15:07	0.2	0.2	0.3
489	06/10/2009 15:08	0.2	0.2	0.3
490	06/10/2009 15:09	0.2	0.2	0.3
491	06/10/2009 15:10	0.2	0.2	0.3
492	06/10/2009 15:11	0.2	0.2	0.3
493	06/10/2009 15:12	0.2	0.2	0.3
494	06/10/2009 15:13	0.2	0.2	0.3
495	06/10/2009 15:14	0.2	0.2	0.3
496	06/10/2009 15:15	0.2	0.2	0.3
497	06/10/2009 15:16	0.2	0.2	0.3
498	06/10/2009 15:17	0.2	0.2	0.3
499	06/10/2009 15:18	0.2	0.2	0.3
500	06/10/2009 15:19	0.2	0.2	0.3
501	06/10/2009 15:20	0.2	0.2	0.3
502	06/10/2009 15:21	0.2	0.2	0.3
503	06/10/2009 15:22	0.2	0.2	0.3
504	06/10/2009 15:23	0.3	0.3	0.3
505	06/10/2009 15:24	0.3	0.3	0.4
506	06/10/2009 15:25	0.3	0.3	0.4
507	06/10/2009 15:26	0.3	0.3	0.3
508	06/10/2009 15:27	0.3	0.3	0.3
509	06/10/2009 15:28	0.3	0.3	0.3

510	06/10/2009 15:29	0.3	0.3	0.3
511	06/10/2009 15:30	0.2	0.2	0.3
512	06/10/2009 15:31	0.2	0.2	0.3
513	06/10/2009 15:32	0.3	0.3	0.3
514	06/10/2009 15:33	0.2	0.2	0.3
515	06/10/2009 15:34	0.3	0.3	0.3
516	06/10/2009 15:35	0.2	0.2	0.3
517	06/10/2009 15:36	0.2	0.2	0.3
518	06/10/2009 15:37	0.3	0.3	0.3
519	06/10/2009 15:38	0.2	0.2	0.3
520	06/10/2009 15:39	0.3	0.3	0.3
521	06/10/2009 15:40	0.3	0.3	0.3
522	06/10/2009 15:41	0.3	0.3	0.3
523	06/10/2009 15:42	0.3	0.3	0.3
524	06/10/2009 15:43	0.3	0.3	0.3
525	06/10/2009 15:44	0.3	0.3	0.3
526	06/10/2009 15:45	0.3	0.3	0.3
527	06/10/2009 15:46	0.3	0.3	0.3
528	06/10/2009 15:47	0.3	0.3	0.3
529	06/10/2009 15:48	0.3	0.3	0.3
530	06/10/2009 15:49	0.3	0.3	0.3
531	06/10/2009 15:50	0.3	0.3	0.3
532	06/10/2009 15:51	0.3	0.3	0.3
533	06/10/2009 15:52	0.3	0.3	0.3
534	06/10/2009 15:53	0.3	0.3	0.3
535	06/10/2009 15:54	0.3	0.3	0.3
536	06/10/2009 15:55	0.3	0.3	0.3
537	06/10/2009 15:56	0.3	0.3	0.3
538	06/10/2009 15:57	0.3	0.3	0.3
539	06/10/2009 15:58	0.3	0.3	0.3
540	06/10/2009 15:59	0.3	0.3	0.3
541	06/10/2009 16:00	0.3	0.3	0.3
542	06/10/2009 16:01	0.3	0.3	0.3
543	06/10/2009 16:02	0.3	0.3	0.3
544	06/10/2009 16:03	0.3	0.3	0.3
545	06/10/2009 16:04	0.3	0.3	0.3
546	06/10/2009 16:05	0.3	0.3	0.3
547	06/10/2009 16:06	0.3	0.3	0.3
548	06/10/2009 16:07	0.3	0.3	0.3
549	06/10/2009 16:08	0.3	0.3	0.3
550	06/10/2009 16:09	0.3	0.3	0.3
551	06/10/2009 16:10	0.3	0.3	0.3
552	06/10/2009 16:11	0.3	0.3	0.3
553	06/10/2009 16:12	0.3	0.3	0.3
554	06/10/2009 16:13	0.3	0.3	0.3
555	06/10/2009 16:14	0.3	0.3	0.3
556	06/10/2009 16:15	0.3	0.3	0.3
557	06/10/2009 16:16	0.3	0.3	0.3
558	06/10/2009 16:17	0.3	0.3	0.3
559	06/10/2009 16:18	0.3	0.3	0.3
560	06/10/2009 16:19	0.3	0.3	0.3
561	06/10/2009 16:20	0.3	0.3	0.3

562	06/10/2009 16:21	0.3	0.3	0.3
563	06/10/2009 16:22	0.3	0.3	0.3
564	06/10/2009 16:23	0.3	0.3	0.3
565	06/10/2009 16:24	0.3	0.3	0.3
566	06/10/2009 16:25	0.3	0.3	0.3
567	06/10/2009 16:26	0.3	0.3	0.3
568	06/10/2009 16:27	0.3	0.3	0.3
569	06/10/2009 16:28	0.3	0.3	0.3
570	06/10/2009 16:29	0.3	0.3	0.3
571	06/10/2009 16:30	0.3	0.3	0.3
572	06/10/2009 16:31	0.3	0.3	0.3
573	06/10/2009 16:32	0.3	0.3	0.4
574	06/10/2009 16:33	0.3	0.3	0.3
575	06/10/2009 16:34	0.3	0.3	0.4
576	06/10/2009 16:35	0.3	0.3	0.4
577	06/10/2009 16:36	0.3	0.3	0.4
578	06/10/2009 16:37	0.3	0.3	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 559 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:      25.0        25.0        25.0
Low Alarm Levels:       5.0         5.0         5.0
=====
```

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

1	06/10/2009 06:56	0.0	0.0	0.0
2	06/10/2009 06:57	0.0	0.0	0.0
3	06/10/2009 06:58	0.0	0.0	0.0
4	06/10/2009 06:59	0.0	0.0	0.0
5	06/10/2009 07:00	0.0	0.0	0.0
6	06/10/2009 07:01	0.0	0.0	0.0
7	06/10/2009 07:02	0.0	0.0	0.0
8	06/10/2009 07:03	0.0	0.0	0.0
9	06/10/2009 07:04	0.0	0.0	0.0
10	06/10/2009 07:05	0.0	0.0	0.0
11	06/10/2009 07:06	0.0	0.0	0.0
12	06/10/2009 07:07	0.0	0.0	0.0
13	06/10/2009 07:08	0.0	0.0	0.0
14	06/10/2009 07:09	0.0	0.0	0.0
15	06/10/2009 07:10	0.0	0.0	0.0
16	06/10/2009 07:11	0.0	0.0	0.0
17	06/10/2009 07:12	0.0	0.0	0.0
18	06/10/2009 07:13	0.0	0.0	0.0
19	06/10/2009 07:14	0.0	0.0	0.0
20	06/10/2009 07:15	0.0	0.0	0.0
21	06/10/2009 07:16	0.0	0.0	0.0
22	06/10/2009 07:17	0.0	0.0	0.0
23	06/10/2009 07:18	0.0	0.0	0.0
24	06/10/2009 07:19	0.0	0.0	0.0
25	06/10/2009 07:20	0.0	0.0	0.0
26	06/10/2009 07:21	0.0	0.0	0.0
27	06/10/2009 07:22	0.0	0.0	0.0
28	06/10/2009 07:23	0.0	0.0	0.0
29	06/10/2009 07:24	0.0	0.0	0.0
30	06/10/2009 07:25	0.0	0.0	0.0
31	06/10/2009 07:26	0.0	0.0	0.0
32	06/10/2009 07:27	0.0	0.0	0.0
33	06/10/2009 07:28	0.0	0.0	0.0
34	06/10/2009 07:29	0.0	0.0	0.0
35	06/10/2009 07:30	0.0	0.0	0.0
36	06/10/2009 07:31	0.0	0.0	0.0
37	06/10/2009 07:32	0.0	0.0	0.0
38	06/10/2009 07:33	0.0	0.0	0.0
39	06/10/2009 07:34	0.0	0.0	0.0
40	06/10/2009 07:35	0.0	0.0	0.0
41	06/10/2009 07:36	0.0	0.0	0.0

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=====
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42	06/10/2009 07:37	0.0	0.0	0.0
43	06/10/2009 07:38	0.0	0.0	0.0
44	06/10/2009 07:39	0.0	0.0	0.0
45	06/10/2009 07:40	0.0	0.0	0.0
46	06/10/2009 07:41	0.0	0.0	0.0
47	06/10/2009 07:42	0.0	0.0	0.0
48	06/10/2009 07:43	0.0	0.0	0.0
49	06/10/2009 07:44	0.0	0.0	0.0
50	06/10/2009 07:45	0.0	0.0	0.0
51	06/10/2009 07:46	0.0	0.0	0.0
52	06/10/2009 07:47	0.0	0.0	0.0
53	06/10/2009 07:48	0.0	0.0	0.0
54	06/10/2009 07:49	0.0	0.0	0.0
55	06/10/2009 07:50	0.0	0.0	0.0
56	06/10/2009 07:51	0.0	0.0	0.0
57	06/10/2009 07:52	0.0	0.0	0.0
58	06/10/2009 07:53	0.0	0.0	0.0
59	06/10/2009 07:54	0.0	0.0	0.0
60	06/10/2009 07:55	0.0	0.0	0.0
61	06/10/2009 07:56	0.0	0.0	0.0
62	06/10/2009 07:57	0.0	0.0	0.1
63	06/10/2009 07:58	0.0	0.0	0.0
64	06/10/2009 07:59	0.0	0.0	0.0
65	06/10/2009 08:00	0.0	0.0	0.0
66	06/10/2009 08:01	0.0	0.0	0.0
67	06/10/2009 08:02	0.0	0.0	0.0
68	06/10/2009 08:03	0.0	0.0	0.0
69	06/10/2009 08:04	0.0	0.0	0.0
70	06/10/2009 08:05	0.0	0.0	0.0
71	06/10/2009 08:06	0.0	0.0	0.0
72	06/10/2009 08:07	0.0	0.0	0.0
73	06/10/2009 08:08	0.0	0.0	0.0
74	06/10/2009 08:09	0.0	0.0	0.0
75	06/10/2009 08:10	0.0	0.0	0.1
76	06/10/2009 08:11	0.0	0.0	0.0
77	06/10/2009 08:12	0.0	0.0	0.0
78	06/10/2009 08:13	0.0	0.0	0.0
79	06/10/2009 08:14	0.0	0.0	0.1
80	06/10/2009 08:15	0.0	0.0	0.0
81	06/10/2009 08:16	0.0	0.0	0.1
82	06/10/2009 08:17	0.0	0.0	0.1
83	06/10/2009 08:18	0.0	0.0	0.1
84	06/10/2009 08:19	0.0	0.0	0.1
85	06/10/2009 08:20	0.0	0.0	0.1
86	06/10/2009 08:21	0.0	0.0	0.1
87	06/10/2009 08:22	0.0	0.0	0.1
88	06/10/2009 08:23	0.0	0.0	0.1
89	06/10/2009 08:24	0.0	0.0	0.1
90	06/10/2009 08:25	0.0	0.0	0.1
91	06/10/2009 08:26	0.0	0.0	0.1
92	06/10/2009 08:27	0.0	0.0	0.1
93	06/10/2009 08:28	0.0	0.0	0.1

94	06/10/2009 08:29	0.0	0.0	0.1
95	06/10/2009 08:30	0.0	0.0	0.1
96	06/10/2009 08:31	0.0	0.0	0.1
97	06/10/2009 08:32	0.0	0.0	0.1
98	06/10/2009 08:33	0.0	0.0	0.1
99	06/10/2009 08:34	0.0	0.0	0.1
100	06/10/2009 08:35	0.0	0.0	0.1
101	06/10/2009 08:36	0.0	0.0	0.1
102	06/10/2009 08:37	0.0	0.0	0.1
103	06/10/2009 08:38	0.0	0.0	0.1
104	06/10/2009 08:39	0.0	0.0	0.1
105	06/10/2009 08:40	0.0	0.0	0.1
106	06/10/2009 08:41	0.0	0.0	0.1
107	06/10/2009 08:42	0.0	0.0	0.1
108	06/10/2009 08:43	0.0	0.0	0.1
109	06/10/2009 08:44	0.1	0.1	0.1
110	06/10/2009 08:45	0.0	0.0	0.2
111	06/10/2009 08:46	0.1	0.1	0.1
112	06/10/2009 08:47	0.0	0.0	0.2
113	06/10/2009 08:48	0.0	0.0	0.1
114	06/10/2009 08:49	0.0	0.0	0.1
115	06/10/2009 08:50	0.1	0.1	0.1
116	06/10/2009 08:51	0.0	0.0	0.1
117	06/10/2009 08:52	0.1	0.1	0.1
118	06/10/2009 08:53	0.0	0.0	0.1
119	06/10/2009 08:54	0.0	0.0	0.1
120	06/10/2009 08:55	0.0	0.0	0.1
121	06/10/2009 08:56	0.1	0.1	0.1
122	06/10/2009 08:57	0.0	0.0	0.1
123	06/10/2009 08:58	0.0	0.0	0.1
124	06/10/2009 08:59	0.0	0.0	0.1
125	06/10/2009 09:00	0.0	0.1	0.2
126	06/10/2009 09:01	0.0	0.0	0.1
127	06/10/2009 09:02	0.0	0.0	0.1
128	06/10/2009 09:03	0.0	0.0	0.1
129	06/10/2009 09:04	0.0	0.0	0.1
130	06/10/2009 09:05	0.0	0.0	0.1
131	06/10/2009 09:06	0.0	0.0	0.1
132	06/10/2009 09:07	0.0	0.1	0.2
133	06/10/2009 09:08	0.0	0.0	0.1
134	06/10/2009 09:09	0.0	0.1	0.2
135	06/10/2009 09:10	0.1	0.1	0.2
136	06/10/2009 09:11	0.1	0.1	0.2
137	06/10/2009 09:12	0.0	0.1	0.2
138	06/10/2009 09:13	0.1	0.1	0.2
139	06/10/2009 09:14	0.0	0.1	0.2
140	06/10/2009 09:15	0.0	0.1	0.2
141	06/10/2009 09:16	0.1	0.1	0.1
142	06/10/2009 09:17	0.0	0.0	0.1
143	06/10/2009 09:18	0.1	0.1	0.1
144	06/10/2009 09:19	0.1	0.1	0.2
145	06/10/2009 09:20	0.1	0.1	0.1



146	06/10/2009 09:21	0.1	0.1	0.3
147	06/10/2009 09:22	0.1	0.1	0.2
148	06/10/2009 09:23	0.1	0.1	0.2
149	06/10/2009 09:24	0.1	0.1	0.1
150	06/10/2009 09:25	0.1	0.1	0.2
151	06/10/2009 09:26	0.1	0.1	0.2
152	06/10/2009 09:27	0.1	0.1	0.1
153	06/10/2009 09:28	0.1	0.1	0.2
154	06/10/2009 09:29	0.1	0.1	0.2
155	06/10/2009 09:30	0.0	0.1	0.2
156	06/10/2009 09:31	0.1	0.1	0.1
157	06/10/2009 09:32	0.1	0.1	0.1
158	06/10/2009 09:33	0.1	0.1	0.1
159	06/10/2009 09:34	0.1	0.1	0.2
160	06/10/2009 09:35	0.1	0.1	0.1
161	06/10/2009 09:36	0.1	0.1	0.1
162	06/10/2009 09:37	0.1	0.1	0.2
163	06/10/2009 09:38	0.1	0.1	0.2
164	06/10/2009 09:39	0.0	0.1	0.2
165	06/10/2009 09:40	0.0	0.0	0.1
166	06/10/2009 09:41	0.0	0.1	0.2
167	06/10/2009 09:42	0.0	0.1	0.2
168	06/10/2009 09:43	0.1	0.1	0.1
169	06/10/2009 09:44	0.1	0.1	0.1
170	06/10/2009 09:45	0.0	0.0	0.1
171	06/10/2009 09:46	0.1	0.1	0.2
172	06/10/2009 09:47	0.0	0.0	0.1
173	06/10/2009 09:48	0.1	0.1	0.1
174	06/10/2009 09:49	0.1	0.1	0.1
175	06/10/2009 09:50	0.1	0.1	0.1
176	06/10/2009 09:51	0.1	0.1	0.1
177	06/10/2009 09:52	0.1	0.1	0.1
178	06/10/2009 09:53	0.1	0.1	0.1
179	06/10/2009 09:54	0.1	0.1	0.1
180	06/10/2009 09:55	0.1	0.1	0.1
181	06/10/2009 09:56	0.1	0.1	0.1
182	06/10/2009 09:57	0.1	0.1	0.1
183	06/10/2009 09:58	0.1	0.1	0.1
184	06/10/2009 09:59	0.1	0.1	0.1
185	06/10/2009 10:00	0.1	0.1	0.1
186	06/10/2009 10:01	0.0	0.0	0.1
187	06/10/2009 10:02	0.1	0.1	0.1
188	06/10/2009 10:03	0.1	0.1	0.1
189	06/10/2009 10:04	0.1	0.1	0.2
190	06/10/2009 10:05	0.1	0.1	0.1
191	06/10/2009 10:06	0.1	0.1	0.1
192	06/10/2009 10:07	0.1	0.1	0.1
193	06/10/2009 10:08	0.1	0.1	0.1
194	06/10/2009 10:09	0.1	0.1	0.1
195	06/10/2009 10:10	0.1	0.1	0.1
196	06/10/2009 10:11	0.1	0.1	0.3
197	06/10/2009 10:12	0.1	0.1	0.1

198	06/10/2009 10:13	0.1	0.1	0.1
199	06/10/2009 10:14	0.1	0.1	0.1
200	06/10/2009 10:15	0.1	0.1	0.2
201	06/10/2009 10:16	0.1	0.1	0.2
202	06/10/2009 10:17	0.1	0.1	0.1
203	06/10/2009 10:18	0.1	0.1	0.1
204	06/10/2009 10:19	0.1	0.1	0.1
205	06/10/2009 10:20	0.1	0.1	0.1
206	06/10/2009 10:21	0.1	0.1	0.1
207	06/10/2009 10:22	0.1	0.1	0.1
208	06/10/2009 10:23	0.1	0.1	0.1
209	06/10/2009 10:24	0.1	0.1	0.1
210	06/10/2009 10:25	0.1	0.1	0.1
211	06/10/2009 10:26	0.0	0.0	0.1
212	06/10/2009 10:27	0.0	0.0	0.1
213	06/10/2009 10:28	0.1	0.1	0.2
214	06/10/2009 10:29	0.0	0.0	0.2
215	06/10/2009 10:30	0.0	0.0	0.2
216	06/10/2009 10:31	0.1	0.1	0.2
217	06/10/2009 10:32	0.1	0.1	0.1
218	06/10/2009 10:33	0.0	0.0	0.1
219	06/10/2009 10:34	0.1	0.1	0.2
220	06/10/2009 10:35	0.1	0.1	0.2
221	06/10/2009 10:36	0.1	0.1	0.1
222	06/10/2009 10:37	0.1	0.1	0.2
223	06/10/2009 10:38	0.1	0.1	0.2
224	06/10/2009 10:39	0.1	0.1	0.1
225	06/10/2009 10:40	0.0	0.1	0.2
226	06/10/2009 10:41	0.1	0.1	0.2
227	06/10/2009 10:42	0.0	0.1	0.2
228	06/10/2009 10:43	0.1	0.1	0.2
229	06/10/2009 10:44	0.0	0.1	0.2
230	06/10/2009 10:45	0.1	0.1	0.3
231	06/10/2009 10:46	0.1	0.1	0.2
232	06/10/2009 10:47	0.1	0.1	0.2
233	06/10/2009 10:48	0.1	0.1	0.1
234	06/10/2009 10:49	0.0	0.0	0.2
235	06/10/2009 10:50	0.1	0.1	0.2
236	06/10/2009 10:51	0.1	0.1	0.2
237	06/10/2009 10:52	0.1	0.1	0.1
238	06/10/2009 10:53	0.1	0.1	0.1
239	06/10/2009 10:54	0.1	0.1	0.1
240	06/10/2009 10:55	0.1	0.1	0.1
241	06/10/2009 10:56	0.1	0.1	0.1
242	06/10/2009 10:57	0.1	0.1	0.2
243	06/10/2009 10:58	0.1	0.1	0.2
244	06/10/2009 10:59	0.1	0.1	0.2
245	06/10/2009 11:00	0.1	0.1	0.2
246	06/10/2009 11:01	0.1	0.1	0.2
247	06/10/2009 11:02	0.1	0.1	0.2
248	06/10/2009 11:03	0.1	0.1	0.2
249	06/10/2009 11:04	0.1	0.1	0.2

250	06/10/2009 11:05	0.0	0.0	0.1
251	06/10/2009 11:06	0.1	0.1	0.2
252	06/10/2009 11:07	0.1	0.2	0.4
253	06/10/2009 11:08	0.1	0.1	0.2
254	06/10/2009 11:09	0.1	0.1	0.1
255	06/10/2009 11:10	0.1	0.1	0.2
256	06/10/2009 11:11	0.1	0.1	0.2
257	06/10/2009 11:12	0.1	0.1	0.2
258	06/10/2009 11:13	0.1	0.1	0.2
259	06/10/2009 11:14	0.1	0.1	0.2
260	06/10/2009 11:15	0.1	0.1	0.2
261	06/10/2009 11:16	0.1	0.1	0.2
262	06/10/2009 11:17	0.1	0.1	0.2
263	06/10/2009 11:18	0.1	0.1	0.3
264	06/10/2009 11:19	0.1	0.1	0.3
265	06/10/2009 11:20	0.1	0.1	0.3
266	06/10/2009 11:21	0.1	0.1	0.2
267	06/10/2009 11:22	0.1	0.1	0.2
268	06/10/2009 11:23	0.1	0.1	0.2
269	06/10/2009 11:24	0.0	0.0	0.1
270	06/10/2009 11:25	0.1	0.1	0.2
271	06/10/2009 11:26	0.0	0.1	0.2
272	06/10/2009 11:27	0.1	0.1	0.2
273	06/10/2009 11:28	0.1	0.1	0.2
274	06/10/2009 11:29	0.0	0.1	0.2
275	06/10/2009 11:30	0.1	0.1	0.2
276	06/10/2009 11:31	0.1	0.1	0.2
277	06/10/2009 11:32	0.1	0.1	0.2
278	06/10/2009 11:33	0.1	0.1	0.2
279	06/10/2009 11:34	0.1	0.1	0.2
280	06/10/2009 11:35	0.1	0.1	0.2
281	06/10/2009 11:36	0.1	0.1	0.2
282	06/10/2009 11:37	0.1	0.1	0.2
283	06/10/2009 11:38	0.1	0.1	0.2
284	06/10/2009 11:39	0.1	0.1	0.2
285	06/10/2009 11:40	0.1	0.1	0.2
286	06/10/2009 11:41	0.1	0.1	0.2
287	06/10/2009 11:42	0.1	0.1	0.2
288	06/10/2009 11:43	0.1	0.1	0.3
289	06/10/2009 11:44	0.1	0.1	0.2
290	06/10/2009 11:45	0.1	0.1	0.2
291	06/10/2009 11:46	0.1	0.1	0.2
292	06/10/2009 11:47	0.1	0.1	0.2
293	06/10/2009 11:48	0.1	0.1	0.2
294	06/10/2009 11:49	0.1	0.1	0.2
295	06/10/2009 11:50	0.1	0.1	0.2
296	06/10/2009 11:51	0.1	0.1	0.2
297	06/10/2009 11:52	0.1	0.1	0.2
298	06/10/2009 11:53	0.1	0.1	0.2
299	06/10/2009 11:54	0.1	0.1	0.2
300	06/10/2009 11:55	0.1	0.1	0.2
301	06/10/2009 11:56	0.0	0.1	0.2

302	06/10/2009 11:57	0.0	0.1	0.2
303	06/10/2009 11:58	0.0	0.1	0.3
304	06/10/2009 11:59	0.1	0.1	0.2
305	06/10/2009 12:00	0.1	0.1	0.2
306	06/10/2009 12:01	0.1	0.1	0.2
307	06/10/2009 12:02	0.0	0.1	0.2
308	06/10/2009 12:03	0.1	0.1	0.2
309	06/10/2009 12:04	0.1	0.1	0.2
310	06/10/2009 12:05	0.1	0.1	0.2
311	06/10/2009 12:06	0.1	0.1	0.2
312	06/10/2009 12:07	0.1	0.1	0.2
313	06/10/2009 12:08	0.1	0.1	0.2
314	06/10/2009 12:09	0.1	0.1	0.2
315	06/10/2009 12:10	0.1	0.1	0.2
316	06/10/2009 12:11	0.1	0.1	0.2
317	06/10/2009 12:12	0.1	0.1	0.2
318	06/10/2009 12:13	0.1	0.1	0.2
319	06/10/2009 12:14	0.1	0.1	0.2
320	06/10/2009 12:15	0.1	0.1	0.2
321	06/10/2009 12:16	0.1	0.1	0.2
322	06/10/2009 12:17	0.1	0.1	0.3
323	06/10/2009 12:18	0.1	0.1	0.2
324	06/10/2009 12:19	0.1	0.1	0.2
325	06/10/2009 12:20	0.1	0.1	0.2
326	06/10/2009 12:21	0.1	0.1	0.2
327	06/10/2009 12:22	0.1	0.1	0.2
328	06/10/2009 12:23	0.1	0.1	0.2
329	06/10/2009 12:24	0.1	0.1	0.2
330	06/10/2009 12:25	0.1	0.1	0.2
331	06/10/2009 12:26	0.1	0.1	0.2
332	06/10/2009 12:27	0.1	0.1	0.2
333	06/10/2009 12:28	0.1	0.1	0.2
334	06/10/2009 12:29	0.1	0.1	0.2
335	06/10/2009 12:30	0.1	0.1	0.2
336	06/10/2009 12:31	0.1	0.1	0.2
337	06/10/2009 12:32	0.1	0.1	0.2
338	06/10/2009 12:33	0.1	0.1	0.2
339	06/10/2009 12:34	0.1	0.1	0.2
340	06/10/2009 12:35	0.1	0.1	0.2
341	06/10/2009 12:36	0.1	0.1	0.2
342	06/10/2009 12:37	0.1	0.1	0.2
343	06/10/2009 12:38	0.1	0.1	0.3
344	06/10/2009 12:39	0.1	0.1	0.2
345	06/10/2009 12:40	0.1	0.1	0.3
346	06/10/2009 12:41	0.1	0.1	0.3
347	06/10/2009 12:42	0.1	0.1	0.2
348	06/10/2009 12:43	0.1	0.1	0.2
349	06/10/2009 12:44	0.1	0.1	0.3
350	06/10/2009 12:45	0.1	0.1	0.2
351	06/10/2009 12:46	0.1	0.1	0.2
352	06/10/2009 12:47	0.1	0.1	0.2
353	06/10/2009 12:48	0.1	0.1	0.2

354	06/10/2009 12:49	0.1	0.1	0.2
355	06/10/2009 12:50	0.1	0.1	0.2
356	06/10/2009 12:51	0.1	0.1	0.2
357	06/10/2009 12:52	0.1	0.1	0.3
358	06/10/2009 12:53	0.1	0.1	0.2
359	06/10/2009 12:54	0.1	0.1	0.2
360	06/10/2009 12:55	0.1	0.2	0.3
361	06/10/2009 12:56	0.1	0.1	0.2
362	06/10/2009 12:57	0.1	0.1	0.3
363	06/10/2009 12:58	0.1	0.1	0.3
364	06/10/2009 12:59	0.1	0.1	0.3
365	06/10/2009 13:00	0.1	0.1	0.2
366	06/10/2009 13:01	0.1	0.1	0.2
367	06/10/2009 13:02	0.1	0.1	0.3
368	06/10/2009 13:03	0.1	0.1	0.2
369	06/10/2009 13:04	0.1	0.1	0.2
370	06/10/2009 13:05	0.1	0.1	0.2
371	06/10/2009 13:06	0.1	0.1	0.2
372	06/10/2009 13:07	0.1	0.1	0.3
373	06/10/2009 13:08	0.1	0.1	0.3
374	06/10/2009 13:09	0.1	0.1	0.2
375	06/10/2009 13:10	0.1	0.1	0.2
376	06/10/2009 13:11	0.1	0.1	0.2
377	06/10/2009 13:12	0.1	0.1	0.3
378	06/10/2009 13:13	0.1	0.1	0.2
379	06/10/2009 13:14	0.1	0.1	0.2
380	06/10/2009 13:15	0.1	0.1	0.2
381	06/10/2009 13:16	0.1	0.2	0.3
382	06/10/2009 13:17	0.1	0.1	0.2
383	06/10/2009 13:18	0.1	0.2	0.3
384	06/10/2009 13:19	0.1	0.1	0.2
385	06/10/2009 13:20	0.1	0.2	0.3
386	06/10/2009 13:21	0.1	0.1	0.2
387	06/10/2009 13:22	0.1	0.1	0.2
388	06/10/2009 13:23	0.1	0.1	0.3
389	06/10/2009 13:24	0.1	0.1	0.2
390	06/10/2009 13:25	0.1	0.1	0.2
391	06/10/2009 13:26	0.1	0.1	0.3
392	06/10/2009 13:27	0.1	0.1	0.3
393	06/10/2009 13:28	0.1	0.1	0.3
394	06/10/2009 13:29	0.1	0.1	0.2
395	06/10/2009 13:30	0.1	0.2	0.3
396	06/10/2009 13:31	0.1	0.1	0.3
397	06/10/2009 13:32	0.1	0.1	0.3
398	06/10/2009 13:33	0.1	0.2	0.3
399	06/10/2009 13:34	0.1	0.2	0.3
400	06/10/2009 13:35	0.1	0.1	0.3
401	06/10/2009 13:36	0.1	0.1	0.3
402	06/10/2009 13:37	0.1	0.2	0.3
403	06/10/2009 13:38	0.1	0.2	0.3
404	06/10/2009 13:39	0.1	0.2	0.3
405	06/10/2009 13:40	0.2	0.2	0.3

406	06/10/2009 13:41	0.1	0.1	0.3
407	06/10/2009 13:42	0.1	0.2	0.3
408	06/10/2009 13:43	0.2	0.2	0.3
409	06/10/2009 13:44	0.2	0.2	0.3
410	06/10/2009 13:45	0.2	0.2	0.3
411	06/10/2009 13:46	0.1	0.2	0.3
412	06/10/2009 13:47	0.2	0.2	0.3
413	06/10/2009 13:48	0.1	0.2	0.3
414	06/10/2009 13:49	0.1	0.2	0.3
415	06/10/2009 13:50	0.2	0.2	0.3
416	06/10/2009 13:51	0.2	0.2	0.3
417	06/10/2009 13:52	0.1	0.1	0.3
418	06/10/2009 13:53	0.1	0.1	0.2
419	06/10/2009 13:54	0.1	0.1	0.3
420	06/10/2009 13:55	0.1	0.1	0.3
421	06/10/2009 13:56	0.1	0.1	0.2
422	06/10/2009 13:57	0.1	0.1	0.2
423	06/10/2009 13:58	0.1	0.1	0.3
424	06/10/2009 13:59	0.1	0.1	0.3
425	06/10/2009 14:00	0.1	0.1	0.2
426	06/10/2009 14:01	0.1	0.1	0.2
427	06/10/2009 14:02	0.1	0.1	0.2
428	06/10/2009 14:03	0.1	0.1	0.3
429	06/10/2009 14:04	0.1	0.1	0.3
430	06/10/2009 14:05	0.1	0.2	0.3
431	06/10/2009 14:06	0.1	0.1	0.3
432	06/10/2009 14:07	0.1	0.2	0.3
433	06/10/2009 14:08	0.2	0.2	0.3
434	06/10/2009 14:09	0.1	0.2	0.3
435	06/10/2009 14:10	0.1	0.2	0.3
436	06/10/2009 14:11	0.1	0.2	0.3
437	06/10/2009 14:12	0.2	0.2	0.3
438	06/10/2009 14:13	0.1	0.2	0.3
439	06/10/2009 14:14	0.2	0.2	0.3
440	06/10/2009 14:15	0.1	0.2	0.3
441	06/10/2009 14:16	0.1	0.2	0.3
442	06/10/2009 14:17	0.1	0.2	0.3
443	06/10/2009 14:18	0.1	0.2	0.3
444	06/10/2009 14:19	0.1	0.2	0.3
445	06/10/2009 14:20	0.1	0.2	0.3
446	06/10/2009 14:21	0.1	0.2	0.3
447	06/10/2009 14:22	0.1	0.2	0.3
448	06/10/2009 14:23	0.1	0.2	0.3
449	06/10/2009 14:24	0.1	0.2	0.3
450	06/10/2009 14:25	0.1	0.2	0.3
451	06/10/2009 14:26	0.1	0.2	0.3
452	06/10/2009 14:27	0.1	0.2	0.3
453	06/10/2009 14:28	0.1	0.2	0.3
454	06/10/2009 14:29	0.1	0.2	0.3
455	06/10/2009 14:30	0.2	0.2	0.3
456	06/10/2009 14:31	0.1	0.2	0.3
457	06/10/2009 14:32	0.1	0.2	0.3

458	06/10/2009 14:33	0.1	0.2	0.3
459	06/10/2009 14:34	0.1	0.2	0.3
460	06/10/2009 14:35	0.1	0.2	0.3
461	06/10/2009 14:36	0.1	0.2	0.3
462	06/10/2009 14:37	0.1	0.2	0.3
463	06/10/2009 14:38	0.1	0.1	0.3
464	06/10/2009 14:39	0.1	0.1	0.3
465	06/10/2009 14:40	0.1	0.1	0.3
466	06/10/2009 14:41	0.1	0.1	0.3
467	06/10/2009 14:42	0.1	0.2	0.3
468	06/10/2009 14:43	0.1	0.2	0.3
469	06/10/2009 14:44	0.1	0.2	0.3
470	06/10/2009 14:45	0.2	0.2	0.3
471	06/10/2009 14:46	0.2	0.2	0.3
472	06/10/2009 14:47	0.1	0.2	0.3
473	06/10/2009 14:48	0.2	0.2	0.3
474	06/10/2009 14:49	0.2	0.2	0.3
475	06/10/2009 14:50	0.2	0.2	0.3
476	06/10/2009 14:51	0.1	0.2	0.3
477	06/10/2009 14:52	0.1	0.2	0.3
478	06/10/2009 14:53	0.2	0.2	0.3
479	06/10/2009 14:54	0.2	0.2	0.3
480	06/10/2009 14:55	0.2	0.2	0.3
481	06/10/2009 14:56	0.2	0.2	0.3
482	06/10/2009 14:57	0.2	0.2	0.3
483	06/10/2009 14:58	0.2	0.2	0.3
484	06/10/2009 14:59	0.2	0.2	0.3
485	06/10/2009 15:00	0.2	0.2	0.3
486	06/10/2009 15:01	0.1	0.2	0.3
487	06/10/2009 15:02	0.1	0.2	0.3
488	06/10/2009 15:03	0.1	0.2	0.3
489	06/10/2009 15:04	0.1	0.1	0.3
490	06/10/2009 15:05	0.1	0.1	0.3
491	06/10/2009 15:06	0.1	0.1	0.3
492	06/10/2009 15:07	0.1	0.1	0.2
493	06/10/2009 15:08	0.1	0.1	0.2
494	06/10/2009 15:09	0.1	0.1	0.2
495	06/10/2009 15:10	0.1	0.1	0.3
496	06/10/2009 15:11	0.1	0.1	0.2
497	06/10/2009 15:12	0.1	0.1	0.3
498	06/10/2009 15:13	0.1	0.1	0.3
499	06/10/2009 15:14	0.1	0.1	0.3
500	06/10/2009 15:15	0.1	0.1	0.2
501	06/10/2009 15:16	0.1	0.1	0.3
502	06/10/2009 15:17	0.1	0.2	0.8
503	06/10/2009 15:18	0.2	0.5	3.1
504	06/10/2009 15:19	0.1	0.1	0.4
505	06/10/2009 15:20	0.1	0.1	0.3
506	06/10/2009 15:21	0.1	0.1	0.3
507	06/10/2009 15:22	0.1	0.1	0.2
508	06/10/2009 15:23	0.1	0.1	0.2
509	06/10/2009 15:24	0.1	0.1	0.2



510	06/10/2009 15:25	0.1	0.1	0.2
511	06/10/2009 15:26	0.1	0.2	0.3
512	06/10/2009 15:27	0.1	0.2	0.3
513	06/10/2009 15:28	0.1	0.1	0.3
514	06/10/2009 15:29	0.1	0.1	0.3
515	06/10/2009 15:30	0.1	0.1	0.2
516	06/10/2009 15:31	0.1	0.1	0.3
517	06/10/2009 15:32	0.1	0.1	0.3
518	06/10/2009 15:33	0.1	0.1	0.2
519	06/10/2009 15:34	0.1	0.1	0.2
520	06/10/2009 15:35	0.1	0.2	0.3
521	06/10/2009 15:36	0.1	0.1	0.3
522	06/10/2009 15:37	0.1	0.1	0.2
523	06/10/2009 15:38	0.1	0.1	0.2
524	06/10/2009 15:39	0.1	0.1	0.3
525	06/10/2009 15:40	0.1	0.1	0.3
526	06/10/2009 15:41	0.1	0.1	0.3
527	06/10/2009 15:42	0.1	0.2	0.3
528	06/10/2009 15:43	0.1	0.1	0.3
529	06/10/2009 15:44	0.1	0.1	0.2
530	06/10/2009 15:45	0.1	0.1	0.3
531	06/10/2009 15:46	0.1	0.1	0.3
532	06/10/2009 15:47	0.1	0.1	0.2
533	06/10/2009 15:48	0.1	0.2	0.3
534	06/10/2009 15:49	0.1	0.1	0.3
535	06/10/2009 15:50	0.1	0.1	0.2
536	06/10/2009 15:51	0.1	0.1	0.3
537	06/10/2009 15:52	0.1	0.1	0.3
538	06/10/2009 15:53	0.1	0.1	0.2
539	06/10/2009 15:54	0.1	0.1	0.3
540	06/10/2009 15:55	0.1	0.1	0.2
541	06/10/2009 15:56	0.1	0.1	0.3
542	06/10/2009 15:57	0.1	0.1	0.3
543	06/10/2009 15:58	0.1	0.1	0.2
544	06/10/2009 15:59	0.1	0.1	0.3
545	06/10/2009 16:00	0.1	0.1	0.2
546	06/10/2009 16:01	0.1	0.1	0.3
547	06/10/2009 16:02	0.1	0.1	0.2
548	06/10/2009 16:03	0.1	0.1	0.2
549	06/10/2009 16:04	0.1	0.1	0.2
550	06/10/2009 16:05	0.1	0.1	0.2
551	06/10/2009 16:06	0.1	0.1	0.2
552	06/10/2009 16:07	0.1	0.1	0.2
553	06/10/2009 16:08	0.1	0.1	0.3
554	06/10/2009 16:09	0.1	0.1	0.3
555	06/10/2009 16:10	0.1	0.1	0.3
556	06/10/2009 16:11	0.1	0.1	0.2
557	06/10/2009 16:12	0.1	0.1	0.3
558	06/10/2009 16:13	0.1	0.1	0.2
559	06/10/2009 16:14	0.1	0.1	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 558 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/10/2009 06:47      0.0      0.0      0.0
2 06/10/2009 06:48      0.0      0.0      0.0
3 06/10/2009 06:49      0.0      0.0      0.0
4 06/10/2009 06:50      0.0      0.0      0.0
5 06/10/2009 06:51      0.0      0.0      0.0
6 06/10/2009 06:52      0.0      0.0      0.0
7 06/10/2009 06:53      0.0      0.0      0.0
8 06/10/2009 06:54      0.0      0.0      0.0
9 06/10/2009 06:55      0.0      0.0      0.0
10 06/10/2009 06:56      0.0      0.0      0.0
11 06/10/2009 06:57      0.0      0.0      0.0
12 06/10/2009 06:58      0.0      0.0      0.0
13 06/10/2009 06:59      0.0      0.0      0.0
14 06/10/2009 07:00      0.0      0.0      0.0
15 06/10/2009 07:01      0.0      0.0      0.0
16 06/10/2009 07:02      0.0      0.0      0.0
17 06/10/2009 07:03      0.0      0.0      0.0
18 06/10/2009 07:04      0.0      0.0      0.0
19 06/10/2009 07:05      0.0      0.0      0.0
20 06/10/2009 07:06      0.0      0.0      0.0
21 06/10/2009 07:07      0.0      0.0      0.0
22 06/10/2009 07:08      0.0      0.0      0.0
23 06/10/2009 07:09      0.0      0.0      0.0
24 06/10/2009 07:10      0.0      0.0      0.0
25 06/10/2009 07:11      0.0      0.0      0.0
26 06/10/2009 07:12      0.0      0.0      0.0
27 06/10/2009 07:13      0.0      0.0      0.0
28 06/10/2009 07:14      0.0      0.0      0.0
29 06/10/2009 07:15      0.0      0.0      0.0
30 06/10/2009 07:16      0.0      0.0      0.0
31 06/10/2009 07:17      0.0      0.0      0.0
32 06/10/2009 07:18      0.0      0.0      0.0
33 06/10/2009 07:19      0.0      0.0      0.0
34 06/10/2009 07:20      0.0      0.0      0.0
35 06/10/2009 07:21      0.0      0.0      0.0
36 06/10/2009 07:22      0.0      0.0      0.0
37 06/10/2009 07:23      0.0      0.0      0.0
38 06/10/2009 07:24      0.0      0.0      0.0
39 06/10/2009 07:25      0.0      0.0      0.0
40 06/10/2009 07:26      0.0      0.0      0.0
41 06/10/2009 07:27      0.0      0.0      0.0
```

42	06/10/2009 07:28	0.0	0.0	0.0
43	06/10/2009 07:29	0.0	0.0	0.0
44	06/10/2009 07:30	0.0	0.0	0.0
45	06/10/2009 07:31	0.0	0.0	0.0
46	06/10/2009 07:32	0.0	0.0	0.0
47	06/10/2009 07:33	0.0	0.0	0.0
48	06/10/2009 07:34	0.0	0.0	0.0
49	06/10/2009 07:35	0.0	0.0	0.0
50	06/10/2009 07:36	0.0	0.0	0.0
51	06/10/2009 07:37	0.0	0.0	0.0
52	06/10/2009 07:38	0.0	0.0	0.0
53	06/10/2009 07:39	0.0	0.0	0.0
54	06/10/2009 07:40	0.0	0.0	0.0
55	06/10/2009 07:41	0.0	0.0	0.0
56	06/10/2009 07:42	0.0	0.0	0.0
57	06/10/2009 07:43	0.0	0.0	0.0
58	06/10/2009 07:44	0.0	0.0	0.0
59	06/10/2009 07:45	0.0	0.0	0.0
60	06/10/2009 07:46	0.0	0.0	0.0
61	06/10/2009 07:47	0.0	0.0	0.0
62	06/10/2009 07:48	0.0	0.0	0.0
63	06/10/2009 07:49	0.0	0.0	0.0
64	06/10/2009 07:50	0.0	0.0	0.0
65	06/10/2009 07:51	0.0	0.0	0.0
66	06/10/2009 07:52	0.0	0.0	0.0
67	06/10/2009 07:53	0.0	0.0	0.0
68	06/10/2009 07:54	0.0	0.0	0.0
69	06/10/2009 07:55	0.0	0.0	0.0
70	06/10/2009 07:56	0.0	0.0	0.0
71	06/10/2009 07:57	0.0	0.0	0.0
72	06/10/2009 07:58	0.0	0.0	0.0
73	06/10/2009 07:59	0.0	0.0	0.0
74	06/10/2009 08:00	0.0	0.0	0.0
75	06/10/2009 08:01	0.0	0.0	0.0
76	06/10/2009 08:02	0.0	0.0	0.0
77	06/10/2009 08:03	0.0	0.0	0.0
78	06/10/2009 08:04	0.0	0.0	0.0
79	06/10/2009 08:05	0.0	0.0	0.0
80	06/10/2009 08:06	0.0	0.0	0.0
81	06/10/2009 08:07	0.0	0.0	0.0
82	06/10/2009 08:08	0.0	0.0	0.0
83	06/10/2009 08:09	0.0	0.0	0.0
84	06/10/2009 08:10	0.0	0.0	0.0
85	06/10/2009 08:11	0.0	0.0	0.0
86	06/10/2009 08:12	0.0	0.0	0.0
87	06/10/2009 08:13	0.0	0.0	0.0
88	06/10/2009 08:14	0.0	0.0	0.0
89	06/10/2009 08:15	0.0	0.0	0.0
90	06/10/2009 08:16	0.0	0.0	0.0
91	06/10/2009 08:17	0.0	0.0	0.0
92	06/10/2009 08:18	0.0	0.0	0.0
93	06/10/2009 08:19	0.0	0.0	0.0

94	06/10/2009 08:20	0.0	0.0	0.0
95	06/10/2009 08:21	0.0	0.0	0.0
96	06/10/2009 08:22	0.0	0.0	0.0
97	06/10/2009 08:23	0.0	0.0	0.0
98	06/10/2009 08:24	0.0	0.0	0.0
99	06/10/2009 08:25	0.0	0.0	0.0
100	06/10/2009 08:26	0.0	0.0	0.0
101	06/10/2009 08:27	0.0	0.0	0.0
102	06/10/2009 08:28	0.0	0.0	0.0
103	06/10/2009 08:29	0.0	0.0	0.0
104	06/10/2009 08:30	0.0	0.0	0.0
105	06/10/2009 08:31	0.0	0.0	0.0
106	06/10/2009 08:32	0.0	0.0	0.0
107	06/10/2009 08:33	0.0	0.0	0.0
108	06/10/2009 08:34	0.0	0.0	0.0
109	06/10/2009 08:35	0.0	0.0	0.0
110	06/10/2009 08:36	0.0	0.0	0.0
111	06/10/2009 08:37	0.0	0.0	0.0
112	06/10/2009 08:38	0.0	0.0	0.0
113	06/10/2009 08:39	0.0	0.0	0.0
114	06/10/2009 08:40	0.0	0.0	0.0
115	06/10/2009 08:41	0.0	0.0	0.0
116	06/10/2009 08:42	0.0	0.0	0.0
117	06/10/2009 08:43	0.0	0.0	0.0
118	06/10/2009 08:44	0.0	0.0	0.0
119	06/10/2009 08:45	0.0	0.0	0.0
120	06/10/2009 08:46	0.0	0.0	0.0
121	06/10/2009 08:47	0.0	0.0	0.0
122	06/10/2009 08:48	0.0	0.0	0.0
123	06/10/2009 08:49	0.0	0.0	0.0
124	06/10/2009 08:50	0.0	0.0	0.0
125	06/10/2009 08:51	0.0	0.0	0.0
126	06/10/2009 08:52	0.0	0.0	0.0
127	06/10/2009 08:53	0.0	0.0	0.0
128	06/10/2009 08:54	0.0	0.0	0.0
129	06/10/2009 08:55	0.0	0.0	0.0
130	06/10/2009 08:56	0.0	0.0	0.0
131	06/10/2009 08:57	0.0	0.0	0.0
132	06/10/2009 08:58	0.0	0.0	0.0
133	06/10/2009 08:59	0.0	0.0	0.0
134	06/10/2009 09:00	0.0	0.0	0.0
135	06/10/2009 09:01	0.0	0.0	0.0
136	06/10/2009 09:02	0.0	0.0	0.0
137	06/10/2009 09:03	0.0	0.0	0.0
138	06/10/2009 09:04	0.0	0.0	0.0
139	06/10/2009 09:05	0.0	0.0	0.0
140	06/10/2009 09:06	0.0	0.0	0.0
141	06/10/2009 09:07	0.0	0.0	0.0
142	06/10/2009 09:08	0.0	0.0	0.0
143	06/10/2009 09:09	0.0	0.0	0.0
144	06/10/2009 09:10	0.0	0.0	0.0
145	06/10/2009 09:11	0.0	0.0	0.0

146	06/10/2009 09:12	0.0	0.0	0.0
147	06/10/2009 09:13	0.0	0.0	0.0
148	06/10/2009 09:14	0.0	0.0	0.0
149	06/10/2009 09:15	0.0	0.0	0.0
150	06/10/2009 09:16	0.0	0.0	0.0
151	06/10/2009 09:17	0.0	0.0	0.0
152	06/10/2009 09:18	0.0	0.0	0.0
153	06/10/2009 09:19	0.0	0.0	0.0
154	06/10/2009 09:20	0.0	0.0	0.0
155	06/10/2009 09:21	0.0	0.0	0.0
156	06/10/2009 09:22	0.0	0.0	0.0
157	06/10/2009 09:23	0.0	0.0	0.0
158	06/10/2009 09:24	0.0	0.0	0.0
159	06/10/2009 09:25	0.0	0.0	0.0
160	06/10/2009 09:26	0.0	0.0	0.0
161	06/10/2009 09:27	0.0	0.0	0.0
162	06/10/2009 09:28	0.0	0.0	0.0
163	06/10/2009 09:29	0.0	0.0	0.0
164	06/10/2009 09:30	0.0	0.0	0.0
165	06/10/2009 09:31	0.0	0.0	0.0
166	06/10/2009 09:32	0.0	0.0	0.0
167	06/10/2009 09:33	0.0	0.0	0.0
168	06/10/2009 09:34	0.0	0.0	0.0
169	06/10/2009 09:35	0.0	0.0	0.0
170	06/10/2009 09:36	0.0	0.0	0.0
171	06/10/2009 09:37	0.0	0.0	0.0
172	06/10/2009 09:38	0.0	0.0	0.0
173	06/10/2009 09:39	0.0	0.0	0.0
174	06/10/2009 09:40	0.0	0.0	0.0
175	06/10/2009 09:41	0.0	0.0	0.0
176	06/10/2009 09:42	0.0	0.0	0.0
177	06/10/2009 09:43	0.0	0.0	0.0
178	06/10/2009 09:44	0.0	0.0	0.0
179	06/10/2009 09:45	0.0	0.0	0.0
180	06/10/2009 09:46	0.0	0.0	0.0
181	06/10/2009 09:47	0.0	0.0	0.0
182	06/10/2009 09:48	0.0	0.0	0.0
183	06/10/2009 09:49	0.0	0.0	0.0
184	06/10/2009 09:50	0.0	0.0	0.0
185	06/10/2009 09:51	0.0	0.0	0.0
186	06/10/2009 09:52	0.0	0.0	0.0
187	06/10/2009 09:53	0.0	0.0	0.0
188	06/10/2009 09:54	0.0	0.0	0.0
189	06/10/2009 09:55	0.0	0.0	0.0
190	06/10/2009 09:56	0.0	0.0	0.0
191	06/10/2009 09:57	0.0	0.0	0.0
192	06/10/2009 09:58	0.0	0.0	0.0
193	06/10/2009 09:59	0.0	0.0	0.0
194	06/10/2009 10:00	0.0	0.0	0.0
195	06/10/2009 10:01	0.0	0.0	0.0
196	06/10/2009 10:02	0.0	0.0	0.0
197	06/10/2009 10:03	0.0	0.0	0.0

198	06/10/2009 10:04	0.0	0.0	0.0
199	06/10/2009 10:05	0.0	0.0	0.0
200	06/10/2009 10:06	0.0	0.0	0.0
201	06/10/2009 10:07	0.0	0.0	0.0
202	06/10/2009 10:08	0.0	0.0	0.0
203	06/10/2009 10:09	0.0	0.0	0.0
204	06/10/2009 10:10	0.0	0.0	0.0
205	06/10/2009 10:11	0.0	0.0	0.0
206	06/10/2009 10:12	0.0	0.0	0.0
207	06/10/2009 10:13	0.0	0.0	0.0
208	06/10/2009 10:14	0.0	0.0	0.0
209	06/10/2009 10:15	0.0	0.0	0.0
210	06/10/2009 10:16	0.0	0.0	0.0
211	06/10/2009 10:17	0.0	0.0	0.0
212	06/10/2009 10:18	0.0	0.0	0.0
213	06/10/2009 10:19	0.0	0.0	0.0
214	06/10/2009 10:20	0.0	0.0	0.0
215	06/10/2009 10:21	0.0	0.0	0.0
216	06/10/2009 10:22	0.0	0.0	0.0
217	06/10/2009 10:23	0.0	0.0	0.0
218	06/10/2009 10:24	0.0	0.0	0.0
219	06/10/2009 10:25	0.0	0.0	0.0
220	06/10/2009 10:26	0.0	0.0	0.0
221	06/10/2009 10:27	0.0	0.0	0.0
222	06/10/2009 10:28	0.0	0.0	0.0
223	06/10/2009 10:29	0.0	0.0	0.0
224	06/10/2009 10:30	0.0	0.0	0.0
225	06/10/2009 10:31	0.0	0.0	0.0
226	06/10/2009 10:32	0.0	0.0	0.0
227	06/10/2009 10:33	0.0	0.0	0.0
228	06/10/2009 10:34	0.0	0.0	0.0
229	06/10/2009 10:35	0.0	0.0	0.0
230	06/10/2009 10:36	0.0	0.0	0.0
231	06/10/2009 10:37	0.0	0.0	0.0
232	06/10/2009 10:38	0.0	0.0	0.0
233	06/10/2009 10:39	0.0	0.0	0.0
234	06/10/2009 10:40	0.0	0.0	0.0
235	06/10/2009 10:41	0.0	0.0	0.0
236	06/10/2009 10:42	0.0	0.0	0.0
237	06/10/2009 10:43	0.0	0.0	0.0
238	06/10/2009 10:44	0.0	0.0	0.0
239	06/10/2009 10:45	0.0	0.0	0.0
240	06/10/2009 10:46	0.0	0.0	0.0
241	06/10/2009 10:47	0.0	0.0	0.0
242	06/10/2009 10:48	0.0	0.0	0.0
243	06/10/2009 10:49	0.0	0.0	0.0
244	06/10/2009 10:50	0.0	0.0	0.0
245	06/10/2009 10:51	0.0	0.0	0.0
246	06/10/2009 10:52	0.0	0.0	0.0
247	06/10/2009 10:53	0.0	0.0	0.0
248	06/10/2009 10:54	0.0	0.0	0.0
249	06/10/2009 10:55	0.0	0.0	0.0

250	06/10/2009 10:56	0.0	0.0	0.0
251	06/10/2009 10:57	0.0	0.0	0.0
252	06/10/2009 10:58	0.0	0.0	0.0
253	06/10/2009 10:59	0.0	0.0	0.0
254	06/10/2009 11:00	0.0	0.0	0.0
255	06/10/2009 11:01	0.0	0.0	0.0
256	06/10/2009 11:02	0.0	0.0	0.0
257	06/10/2009 11:03	0.0	0.0	0.0
258	06/10/2009 11:04	0.0	0.0	0.0
259	06/10/2009 11:05	0.0	0.0	0.0
260	06/10/2009 11:06	0.0	0.0	0.0
261	06/10/2009 11:07	0.0	0.0	0.0
262	06/10/2009 11:08	0.0	0.0	0.0
263	06/10/2009 11:09	0.0	0.0	0.0
264	06/10/2009 11:10	0.0	0.0	0.0
265	06/10/2009 11:11	0.0	0.0	0.0
266	06/10/2009 11:12	0.0	0.0	0.0
267	06/10/2009 11:13	0.0	0.0	0.0
268	06/10/2009 11:14	0.0	0.0	0.0
269	06/10/2009 11:15	0.0	0.0	0.0
270	06/10/2009 11:16	0.0	0.0	0.0
271	06/10/2009 11:17	0.0	0.0	0.0
272	06/10/2009 11:18	0.0	0.0	0.0
273	06/10/2009 11:19	0.0	0.0	0.0
274	06/10/2009 11:20	0.0	0.0	0.0
275	06/10/2009 11:21	0.0	0.0	0.0
276	06/10/2009 11:22	0.0	0.0	0.0
277	06/10/2009 11:23	0.0	0.0	0.0
278	06/10/2009 11:24	0.0	0.0	0.0
279	06/10/2009 11:25	0.0	0.0	0.0
280	06/10/2009 11:26	0.0	0.0	0.0
281	06/10/2009 11:27	0.0	0.0	0.0
282	06/10/2009 11:28	0.0	0.0	0.0
283	06/10/2009 11:29	0.0	0.0	0.0
284	06/10/2009 11:30	0.0	0.0	0.0
285	06/10/2009 11:31	0.0	0.0	0.0
286	06/10/2009 11:32	0.0	0.0	0.0
287	06/10/2009 11:33	0.0	0.0	0.0
288	06/10/2009 11:34	0.0	0.0	0.0
289	06/10/2009 11:35	0.0	0.0	0.0
290	06/10/2009 11:36	0.0	0.0	0.0
291	06/10/2009 11:37	0.0	0.0	0.0
292	06/10/2009 11:38	0.0	0.0	0.0
293	06/10/2009 11:39	0.0	0.0	0.0
294	06/10/2009 11:40	0.0	0.0	0.0
295	06/10/2009 11:41	0.0	0.0	0.0
296	06/10/2009 11:42	0.0	0.0	0.0
297	06/10/2009 11:43	0.0	0.0	0.0
298	06/10/2009 11:44	0.0	0.0	0.0
299	06/10/2009 11:45	0.0	0.0	0.0
300	06/10/2009 11:46	0.0	0.0	0.0
301	06/10/2009 11:47	0.0	0.0	0.0

302	06/10/2009 11:48	0.0	0.0	0.0
303	06/10/2009 11:49	0.0	0.0	0.0
304	06/10/2009 11:50	0.0	0.0	0.0
305	06/10/2009 11:51	0.0	0.0	0.0
306	06/10/2009 11:52	0.0	0.0	0.0
307	06/10/2009 11:53	0.0	0.0	0.0
308	06/10/2009 11:54	0.0	0.0	0.0
309	06/10/2009 11:55	0.0	0.0	0.0
310	06/10/2009 11:56	0.0	0.0	0.0
311	06/10/2009 11:57	0.0	0.0	0.0
312	06/10/2009 11:58	0.0	0.0	0.0
313	06/10/2009 11:59	0.0	0.0	0.0
314	06/10/2009 12:00	0.0	0.0	0.0
315	06/10/2009 12:01	0.0	0.0	0.0
316	06/10/2009 12:02	0.0	0.0	0.0
317	06/10/2009 12:03	0.0	0.0	0.0
318	06/10/2009 12:04	0.0	0.0	0.0
319	06/10/2009 12:05	0.0	0.0	0.0
320	06/10/2009 12:06	0.0	0.0	0.0
321	06/10/2009 12:07	0.0	0.0	0.0
322	06/10/2009 12:08	0.0	0.0	0.0
323	06/10/2009 12:09	0.0	0.0	0.0
324	06/10/2009 12:10	0.0	0.0	0.0
325	06/10/2009 12:11	0.0	0.0	0.0
326	06/10/2009 12:12	0.0	0.0	0.0
327	06/10/2009 12:13	0.0	0.0	0.0
328	06/10/2009 12:14	0.0	0.0	0.0
329	06/10/2009 12:15	0.0	0.0	0.0
330	06/10/2009 12:16	0.0	0.0	0.0
331	06/10/2009 12:17	0.0	0.0	0.0
332	06/10/2009 12:18	0.0	0.0	0.0
333	06/10/2009 12:19	0.0	0.0	0.0
334	06/10/2009 12:20	0.0	0.0	0.0
335	06/10/2009 12:21	0.0	0.0	0.0
336	06/10/2009 12:22	0.0	0.0	0.0
337	06/10/2009 12:23	0.0	0.0	0.0
338	06/10/2009 12:24	0.0	0.0	0.0
339	06/10/2009 12:25	0.0	0.0	0.0
340	06/10/2009 12:26	0.0	0.0	0.0
341	06/10/2009 12:27	0.0	0.0	0.0
342	06/10/2009 12:28	0.0	0.0	0.0
343	06/10/2009 12:29	0.0	0.0	0.0
344	06/10/2009 12:30	0.0	0.0	0.0
345	06/10/2009 12:31	0.0	0.0	0.0
346	06/10/2009 12:32	0.0	0.0	0.0
347	06/10/2009 12:33	0.0	0.0	0.0
348	06/10/2009 12:34	0.0	0.0	0.0
349	06/10/2009 12:35	0.0	0.0	0.0
350	06/10/2009 12:36	0.0	0.0	0.0
351	06/10/2009 12:37	0.0	0.0	0.0
352	06/10/2009 12:38	0.0	0.0	0.0
353	06/10/2009 12:39	0.0	0.0	0.0



354	06/10/2009 12:40	0.0	0.0	0.0
355	06/10/2009 12:41	0.0	0.0	0.0
356	06/10/2009 12:42	0.0	0.0	0.0
357	06/10/2009 12:43	0.0	0.0	0.0
358	06/10/2009 12:44	0.0	0.0	0.0
359	06/10/2009 12:45	0.0	0.0	0.0
360	06/10/2009 12:46	0.0	0.0	0.0
361	06/10/2009 12:47	0.0	0.0	0.0
362	06/10/2009 12:48	0.0	0.0	0.0
363	06/10/2009 12:49	0.0	0.0	0.0
364	06/10/2009 12:50	0.0	0.0	0.0
365	06/10/2009 12:51	0.0	0.0	0.0
366	06/10/2009 12:52	0.0	0.0	0.0
367	06/10/2009 12:53	0.0	0.0	0.0
368	06/10/2009 12:54	0.0	0.0	0.0
369	06/10/2009 12:55	0.0	0.0	0.0
370	06/10/2009 12:56	0.0	0.0	0.0
371	06/10/2009 12:57	0.0	0.0	0.0
372	06/10/2009 12:58	0.0	0.0	0.0
373	06/10/2009 12:59	0.0	0.0	0.0
374	06/10/2009 13:00	0.0	0.0	0.0
375	06/10/2009 13:01	0.0	0.0	0.0
376	06/10/2009 13:02	0.0	0.0	0.0
377	06/10/2009 13:03	0.0	0.0	0.0
378	06/10/2009 13:04	0.0	0.0	0.0
379	06/10/2009 13:05	0.0	0.0	0.0
380	06/10/2009 13:06	0.0	0.0	0.0
381	06/10/2009 13:07	0.0	0.0	0.0
382	06/10/2009 13:08	0.0	0.0	0.0
383	06/10/2009 13:09	0.0	0.0	0.0
384	06/10/2009 13:10	0.0	0.0	0.0
385	06/10/2009 13:11	0.0	0.0	0.0
386	06/10/2009 13:12	0.0	0.0	0.0
387	06/10/2009 13:13	0.0	0.0	0.0
388	06/10/2009 13:14	0.0	0.0	0.0
389	06/10/2009 13:15	0.0	0.0	0.0
390	06/10/2009 13:16	0.0	0.0	0.0
391	06/10/2009 13:17	0.0	0.0	0.0
392	06/10/2009 13:18	0.0	0.0	0.0
393	06/10/2009 13:19	0.0	0.0	0.0
394	06/10/2009 13:20	0.0	0.0	0.0
395	06/10/2009 13:21	0.0	0.0	0.0
396	06/10/2009 13:22	0.0	0.0	0.0
397	06/10/2009 13:23	0.0	0.0	0.0
398	06/10/2009 13:24	0.0	0.0	0.0
399	06/10/2009 13:25	0.0	0.0	0.0
400	06/10/2009 13:26	0.0	0.0	0.0
401	06/10/2009 13:27	0.0	0.0	0.0
402	06/10/2009 13:28	0.0	0.0	0.0
403	06/10/2009 13:29	0.0	0.0	0.0
404	06/10/2009 13:30	0.0	0.0	0.0
405	06/10/2009 13:31	0.0	0.0	0.0

406	06/10/2009 13:32	0.0	0.0	0.0
407	06/10/2009 13:33	0.0	0.0	0.0
408	06/10/2009 13:34	0.0	0.0	0.0
409	06/10/2009 13:35	0.0	0.0	0.0
410	06/10/2009 13:36	0.0	0.0	0.0
411	06/10/2009 13:37	0.0	0.0	0.0
412	06/10/2009 13:38	0.0	0.0	0.0
413	06/10/2009 13:39	0.0	0.0	0.0
414	06/10/2009 13:40	0.0	0.0	0.0
415	06/10/2009 13:41	0.0	0.0	0.0
416	06/10/2009 13:42	0.0	0.0	0.0
417	06/10/2009 13:43	0.0	0.0	0.0
418	06/10/2009 13:44	0.0	0.0	0.0
419	06/10/2009 13:45	0.0	0.0	0.0
420	06/10/2009 13:46	0.0	0.0	0.0
421	06/10/2009 13:47	0.0	0.0	0.0
422	06/10/2009 13:48	0.0	0.0	0.0
423	06/10/2009 13:49	0.0	0.0	0.0
424	06/10/2009 13:50	0.0	0.0	0.0
425	06/10/2009 13:51	0.0	0.0	0.0
426	06/10/2009 13:52	0.0	0.0	0.0
427	06/10/2009 13:53	0.0	0.0	0.0
428	06/10/2009 13:54	0.0	0.0	0.0
429	06/10/2009 13:55	0.0	0.0	0.0
430	06/10/2009 13:56	0.0	0.0	0.0
431	06/10/2009 13:57	0.0	0.0	0.0
432	06/10/2009 13:58	0.0	0.0	0.0
433	06/10/2009 13:59	0.0	0.0	0.0
434	06/10/2009 14:00	0.0	0.0	0.0
435	06/10/2009 14:01	0.0	0.0	0.0
436	06/10/2009 14:02	0.0	0.0	0.0
437	06/10/2009 14:03	0.0	0.0	0.0
438	06/10/2009 14:04	0.0	0.0	0.0
439	06/10/2009 14:05	0.0	0.0	0.0
440	06/10/2009 14:06	0.0	0.0	0.0
441	06/10/2009 14:07	0.0	0.0	0.0
442	06/10/2009 14:08	0.0	0.0	0.0
443	06/10/2009 14:09	0.0	0.0	0.0
444	06/10/2009 14:10	0.0	0.0	0.0
445	06/10/2009 14:11	0.0	0.0	0.0
446	06/10/2009 14:12	0.0	0.0	0.0
447	06/10/2009 14:13	0.0	0.0	0.0
448	06/10/2009 14:14	0.0	0.0	0.0
449	06/10/2009 14:15	0.0	0.0	0.0
450	06/10/2009 14:16	0.0	0.0	0.0
451	06/10/2009 14:17	0.0	0.0	0.0
452	06/10/2009 14:18	0.0	0.0	0.0
453	06/10/2009 14:19	0.0	0.0	0.0
454	06/10/2009 14:20	0.0	0.0	0.5
455	06/10/2009 14:21	0.0	0.0	0.0
456	06/10/2009 14:22	0.0	0.0	0.0
457	06/10/2009 14:23	0.0	0.0	0.0

458	06/10/2009 14:24	0.0	0.0	0.0
459	06/10/2009 14:25	0.0	0.0	0.0
460	06/10/2009 14:26	0.0	0.0	0.0
461	06/10/2009 14:27	0.0	0.0	0.7
462	06/10/2009 14:28	0.0	0.0	0.0
463	06/10/2009 14:29	0.0	0.0	0.0
464	06/10/2009 14:30	0.0	0.0	0.0
465	06/10/2009 14:31	0.0	0.0	0.0
466	06/10/2009 14:32	0.0	0.0	0.0
467	06/10/2009 14:33	0.0	0.0	0.0
468	06/10/2009 14:34	0.0	0.0	0.0
469	06/10/2009 14:35	0.0	0.0	0.0
470	06/10/2009 14:36	0.0	0.0	0.0
471	06/10/2009 14:37	0.0	0.0	0.0
472	06/10/2009 14:38	0.0	0.0	0.0
473	06/10/2009 14:39	0.0	0.0	0.0
474	06/10/2009 14:40	0.0	0.0	0.0
475	06/10/2009 14:41	0.0	0.0	0.0
476	06/10/2009 14:42	0.0	0.0	0.0
477	06/10/2009 14:43	0.0	0.0	0.0
478	06/10/2009 14:44	0.0	0.0	0.0
479	06/10/2009 14:45	0.0	0.0	0.0
480	06/10/2009 14:46	0.0	0.0	0.0
481	06/10/2009 14:47	0.0	0.0	0.0
482	06/10/2009 14:48	0.0	0.0	0.0
483	06/10/2009 14:49	0.0	0.0	0.0
484	06/10/2009 14:50	0.0	0.0	0.0
485	06/10/2009 14:51	0.0	0.0	0.0
486	06/10/2009 14:52	0.0	0.0	0.0
487	06/10/2009 14:53	0.0	0.0	0.0
488	06/10/2009 14:54	0.0	0.0	0.0
489	06/10/2009 14:55	0.0	0.0	0.0
490	06/10/2009 14:56	0.0	0.0	0.0
491	06/10/2009 14:57	0.0	0.0	0.0
492	06/10/2009 14:58	0.0	0.0	0.0
493	06/10/2009 14:59	0.0	0.0	0.0
494	06/10/2009 15:00	0.0	0.0	0.0
495	06/10/2009 15:01	0.0	0.0	0.0
496	06/10/2009 15:02	0.0	0.0	0.0
497	06/10/2009 15:03	0.0	0.0	0.0
498	06/10/2009 15:04	0.0	0.0	0.0
499	06/10/2009 15:05	0.0	0.0	0.0
500	06/10/2009 15:06	0.0	0.0	0.0
501	06/10/2009 15:07	0.0	0.0	0.0
502	06/10/2009 15:08	0.0	0.0	0.0
503	06/10/2009 15:09	0.0	0.0	0.0
504	06/10/2009 15:10	0.0	0.0	0.0
505	06/10/2009 15:11	0.0	0.0	0.0
506	06/10/2009 15:12	0.0	0.0	0.0
507	06/10/2009 15:13	0.0	0.0	0.0
508	06/10/2009 15:14	0.0	0.0	0.0
509	06/10/2009 15:15	0.0	0.0	0.0

510	06/10/2009 15:16	0.0	0.0	0.0
511	06/10/2009 15:17	0.0	0.0	0.0
512	06/10/2009 15:18	0.0	0.0	0.0
513	06/10/2009 15:19	0.0	0.0	0.0
514	06/10/2009 15:20	0.0	0.0	0.0
515	06/10/2009 15:21	0.0	0.0	0.0
516	06/10/2009 15:22	0.0	0.0	0.0
517	06/10/2009 15:23	0.0	0.0	0.0
518	06/10/2009 15:24	0.0	0.0	0.0
519	06/10/2009 15:25	0.0	0.0	0.0
520	06/10/2009 15:26	0.0	0.0	0.0
521	06/10/2009 15:27	0.0	0.0	0.0
522	06/10/2009 15:28	0.0	0.0	0.0
523	06/10/2009 15:29	0.0	0.0	0.0
524	06/10/2009 15:30	0.0	0.0	0.0
525	06/10/2009 15:31	0.0	0.0	0.0
526	06/10/2009 15:32	0.0	0.0	0.0
527	06/10/2009 15:33	0.0	0.0	0.0
528	06/10/2009 15:34	0.0	0.0	0.0
529	06/10/2009 15:35	0.0	0.0	0.0
530	06/10/2009 15:36	0.0	0.0	0.0
531	06/10/2009 15:37	0.0	0.0	0.0
532	06/10/2009 15:38	0.0	0.0	0.0
533	06/10/2009 15:39	0.0	0.0	0.0
534	06/10/2009 15:40	0.0	0.0	0.0
535	06/10/2009 15:41	0.0	0.0	0.0
536	06/10/2009 15:42	0.0	0.0	0.0
537	06/10/2009 15:43	0.0	0.0	0.0
538	06/10/2009 15:44	0.0	0.0	0.0
539	06/10/2009 15:45	0.0	0.0	0.0
540	06/10/2009 15:46	0.0	0.0	0.0
541	06/10/2009 15:47	0.0	0.0	0.0
542	06/10/2009 15:48	0.0	0.0	0.0
543	06/10/2009 15:49	0.0	0.0	0.1
544	06/10/2009 15:50	0.0	0.0	0.0
545	06/10/2009 15:51	0.0	0.0	0.0
546	06/10/2009 15:52	0.0	0.0	0.0
547	06/10/2009 15:53	0.0	0.0	0.0
548	06/10/2009 15:54	0.0	0.0	0.0
549	06/10/2009 15:55	0.0	0.0	0.0
550	06/10/2009 15:56	0.0	0.0	0.0
551	06/10/2009 15:57	0.0	0.0	0.0
552	06/10/2009 15:58	0.0	0.0	0.0
553	06/10/2009 15:59	0.0	0.0	0.0
554	06/10/2009 16:00	0.0	0.0	0.0
555	06/10/2009 16:01	0.0	0.0	0.0
556	06/10/2009 16:02	0.0	0.0	0.0
557	06/10/2009 16:03	0.0	0.0	0.0
558	06/10/2009 16:04	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 476 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

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=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
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=====
Line#   Date Time      Min(ppm)      Avg(ppm)      Max(ppm)
=====
```

1	06/11/2009 07:28	0.0	0.0	0.0
2	06/11/2009 07:29	0.0	0.0	0.0
3	06/11/2009 07:30	0.0	0.0	0.0
4	06/11/2009 07:31	0.0	0.0	0.0
5	06/11/2009 07:32	0.0	0.0	0.0
6	06/11/2009 07:33	0.0	0.0	0.0
7	06/11/2009 07:34	0.0	0.0	0.0
8	06/11/2009 07:35	0.0	0.0	0.0
9	06/11/2009 07:36	0.0	0.0	0.0
10	06/11/2009 07:37	0.0	0.0	0.0
11	06/11/2009 07:38	0.0	0.0	0.0
12	06/11/2009 07:39	0.0	0.0	0.0
13	06/11/2009 07:40	0.0	0.0	0.0
14	06/11/2009 07:41	0.0	0.0	0.0
15	06/11/2009 07:42	0.0	0.0	0.0
16	06/11/2009 07:43	0.0	0.0	0.0
17	06/11/2009 07:44	0.0	0.0	0.0
18	06/11/2009 07:45	0.0	0.0	0.0
19	06/11/2009 07:46	0.0	0.0	0.0
20	06/11/2009 07:47	0.0	0.8	18.1L
21	06/11/2009 07:48	0.0	0.0	2.2
22	06/11/2009 07:49	0.0	0.1	4.2
23	06/11/2009 07:50	0.0	0.0	2.6
24	06/11/2009 07:51	0.0	0.0	0.2
25	06/11/2009 07:52	0.0	0.0	0.0
26	06/11/2009 07:53	0.0	0.0	0.3
27	06/11/2009 07:54	0.0	0.0	0.0
28	06/11/2009 07:55	0.0	0.0	0.0
29	06/11/2009 07:56	0.0	0.0	0.0
30	06/11/2009 07:57	0.0	0.0	0.0
31	06/11/2009 07:58	0.0	0.0	0.0
32	06/11/2009 07:59	0.0	0.0	0.0
33	06/11/2009 08:00	0.0	0.0	0.0
34	06/11/2009 08:01	0.0	0.0	0.0
35	06/11/2009 08:02	0.0	0.0	1.2
36	06/11/2009 08:03	0.0	0.0	0.0
37	06/11/2009 08:04	0.0	0.0	0.0
38	06/11/2009 08:05	0.0	0.0	0.0
39	06/11/2009 08:06	0.0	0.0	0.0
40	06/11/2009 08:07	0.0	0.0	0.0
41	06/11/2009 08:08	0.0	0.0	0.0

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=====
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42	06/11/2009 08:09	0.0	0.0	0.0
43	06/11/2009 08:10	0.0	0.0	0.0
44	06/11/2009 08:11	0.0	0.0	0.0
45	06/11/2009 08:12	0.0	0.0	0.0
46	06/11/2009 08:13	0.0	0.0	0.0
47	06/11/2009 08:14	0.0	0.0	0.0
48	06/11/2009 08:15	0.0	0.0	0.0
49	06/11/2009 08:16	0.0	0.0	0.1
50	06/11/2009 08:17	0.0	0.0	0.0
51	06/11/2009 08:18	0.0	0.0	0.0
52	06/11/2009 08:19	0.0	0.0	0.0
53	06/11/2009 08:20	0.0	0.0	0.0
54	06/11/2009 08:21	0.0	0.0	0.0
55	06/11/2009 08:22	0.0	0.0	0.0
56	06/11/2009 08:23	0.0	0.0	0.0
57	06/11/2009 08:24	0.0	0.0	0.1
58	06/11/2009 08:25	0.0	0.0	2.0
59	06/11/2009 08:26	0.0	0.0	0.2
60	06/11/2009 08:27	0.0	0.0	0.0
61	06/11/2009 08:28	0.0	0.0	0.0
62	06/11/2009 08:29	0.0	0.0	0.0
63	06/11/2009 08:30	0.0	0.0	0.0
64	06/11/2009 08:31	0.0	0.0	0.0
65	06/11/2009 08:32	0.0	0.0	0.0
66	06/11/2009 08:33	0.0	0.0	0.0
67	06/11/2009 08:34	0.0	0.0	0.0
68	06/11/2009 08:35	0.0	0.0	0.0
69	06/11/2009 08:36	0.0	0.0	0.0
70	06/11/2009 08:37	0.0	0.0	0.0
71	06/11/2009 08:38	0.0	0.0	0.0
72	06/11/2009 08:39	0.0	0.0	0.0
73	06/11/2009 08:40	0.0	0.0	0.0
74	06/11/2009 08:41	0.0	0.0	0.0
75	06/11/2009 08:42	0.0	0.0	0.0
76	06/11/2009 08:43	0.0	0.0	0.0
77	06/11/2009 08:44	0.0	0.0	0.0
78	06/11/2009 08:45	0.0	0.0	0.0
79	06/11/2009 08:46	0.0	0.0	0.0
80	06/11/2009 08:47	0.0	0.0	0.0
81	06/11/2009 08:48	0.0	0.0	0.0
82	06/11/2009 08:49	0.0	0.0	0.0
83	06/11/2009 08:50	0.0	0.0	0.0
84	06/11/2009 08:51	0.0	0.0	0.0
85	06/11/2009 08:52	0.0	0.0	0.0
86	06/11/2009 08:53	0.0	0.0	0.0
87	06/11/2009 08:54	0.0	0.0	0.0
88	06/11/2009 08:55	0.0	0.2	1.4
89	06/11/2009 08:56	0.1	0.8	2.1
90	06/11/2009 08:57	0.0	1.0	2.2
91	06/11/2009 08:58	0.2	1.1	2.3
92	06/11/2009 08:59	0.7	1.9	3.1
93	06/11/2009 09:00	0.7	2.2	3.7

94	06/11/2009 09:01	0.5	2.2	3.8
95	06/11/2009 09:02	0.4	1.8	3.4
96	06/11/2009 09:03	0.4	1.1	3.1
97	06/11/2009 09:04	0.1	0.2	1.3
98	06/11/2009 09:05	0.0	0.0	0.2
99	06/11/2009 09:06	0.0	0.0	0.1
100	06/11/2009 09:07	0.0	0.0	0.1
101	06/11/2009 09:08	0.0	0.0	0.1
102	06/11/2009 09:09	0.0	0.0	0.0
103	06/11/2009 09:10	0.0	0.0	0.0
104	06/11/2009 09:11	0.0	0.0	0.0
105	06/11/2009 09:12	0.0	0.0	0.0
106	06/11/2009 09:13	0.0	0.0	0.2
107	06/11/2009 09:14	0.0	0.0	0.1
108	06/11/2009 09:15	0.0	0.0	0.0
109	06/11/2009 09:16	0.0	0.0	0.0
110	06/11/2009 09:17	0.0	0.0	0.0
111	06/11/2009 09:18	0.0	0.0	0.0
112	06/11/2009 09:19	0.0	0.0	0.0
113	06/11/2009 09:20	0.0	0.0	0.0
114	06/11/2009 09:21	0.0	0.0	0.0
115	06/11/2009 09:22	0.0	0.0	0.1
116	06/11/2009 09:23	0.0	0.0	0.0
117	06/11/2009 09:24	0.0	0.0	0.0
118	06/11/2009 09:25	0.0	0.0	0.0
119	06/11/2009 09:26	0.0	0.0	0.0
120	06/11/2009 09:27	0.0	0.0	0.0
121	06/11/2009 09:28	0.0	0.0	0.1
122	06/11/2009 09:29	0.0	0.0	0.0
123	06/11/2009 09:30	0.0	0.0	0.0
124	06/11/2009 09:31	0.0	0.0	0.0
125	06/11/2009 09:32	0.0	0.0	0.0
126	06/11/2009 09:33	0.0	0.0	0.0
127	06/11/2009 09:34	0.0	0.1	1.5
128	06/11/2009 09:35	0.0	0.0	0.4
129	06/11/2009 09:36	0.0	0.0	0.0
130	06/11/2009 09:37	0.0	0.5	3.2
131	06/11/2009 09:38	0.0	0.3	1.2
132	06/11/2009 09:39	0.0	0.1	1.1
133	06/11/2009 09:40	0.0	0.0	0.4
134	06/11/2009 09:41	0.0	0.0	0.2
135	06/11/2009 09:42	0.0	0.0	0.3
136	06/11/2009 09:43	0.0	0.0	0.1
137	06/11/2009 09:44	0.0	0.0	0.2
138	06/11/2009 09:45	0.0	0.1	0.3
139	06/11/2009 09:46	0.0	0.0	0.4
140	06/11/2009 09:47	0.0	0.0	0.7
141	06/11/2009 09:48	0.0	0.0	0.9
142	06/11/2009 09:49	0.0	0.4	4.0
143	06/11/2009 09:50	0.0	0.0	0.2
144	06/11/2009 09:51	0.0	0.0	0.2
145	06/11/2009 09:52	0.0	0.0	0.3

146	06/11/2009 09:53	0.0	0.0	0.2
147	06/11/2009 09:54	0.0	0.0	0.4
148	06/11/2009 09:55	0.0	0.0	0.2
149	06/11/2009 09:56	0.0	0.0	0.1
150	06/11/2009 09:57	0.0	0.0	0.3
151	06/11/2009 09:58	0.0	0.0	0.3
152	06/11/2009 09:59	0.0	0.0	0.2
153	06/11/2009 10:00	0.0	0.0	0.3
154	06/11/2009 10:01	0.0	0.0	0.3
155	06/11/2009 10:02	0.0	0.0	0.3
156	06/11/2009 10:03	0.0	0.0	0.0
157	06/11/2009 10:04	0.0	0.0	0.1
158	06/11/2009 10:05	0.0	0.0	0.3
159	06/11/2009 10:06	0.0	0.0	0.0
160	06/11/2009 10:07	0.0	0.0	0.2
161	06/11/2009 10:08	0.0	0.0	0.6
162	06/11/2009 10:09	0.0	0.1	0.6
163	06/11/2009 10:10	0.0	0.2	0.7
164	06/11/2009 10:11	0.0	0.1	0.5
165	06/11/2009 10:12	0.0	0.0	0.4
166	06/11/2009 10:13	0.0	0.0	0.3
167	06/11/2009 10:14	0.0	0.1	0.5
168	06/11/2009 10:15	0.0	0.1	0.5
169	06/11/2009 10:16	0.0	0.0	0.3
170	06/11/2009 10:17	0.0	0.1	0.6
171	06/11/2009 10:18	0.0	0.1	0.4
172	06/11/2009 10:19	0.0	0.0	0.3
173	06/11/2009 10:20	0.0	0.1	0.4
174	06/11/2009 10:21	0.0	0.0	0.5
175	06/11/2009 10:22	0.0	0.0	0.2
176	06/11/2009 10:23	0.0	0.0	0.2
177	06/11/2009 10:24	0.0	0.0	0.3
178	06/11/2009 10:25	0.0	0.2	0.7
179	06/11/2009 10:26	0.0	0.2	0.7
180	06/11/2009 10:27	0.0	0.2	0.6
181	06/11/2009 10:28	0.0	0.1	0.3
182	06/11/2009 10:29	0.0	0.0	0.2
183	06/11/2009 10:30	0.0	0.1	0.4
184	06/11/2009 10:31	0.0	0.0	0.1
185	06/11/2009 10:32	0.0	0.0	0.1
186	06/11/2009 10:33	0.0	0.0	0.1
187	06/11/2009 10:34	0.0	0.0	0.1
188	06/11/2009 10:35	0.0	0.0	0.2
189	06/11/2009 10:36	0.0	0.0	0.1
190	06/11/2009 10:37	0.0	0.0	0.1
191	06/11/2009 10:38	0.0	0.0	0.1
192	06/11/2009 10:39	0.0	0.0	0.2
193	06/11/2009 10:40	0.0	0.0	0.2
194	06/11/2009 10:41	0.0	0.0	0.2
195	06/11/2009 10:42	0.0	0.0	0.3
196	06/11/2009 10:43	0.0	0.0	0.1
197	06/11/2009 10:44	0.0	0.0	0.1



198	06/11/2009 10:45	0.0	0.0	0.1
199	06/11/2009 10:46	0.0	0.0	0.2
200	06/11/2009 10:47	0.0	0.0	0.1
201	06/11/2009 10:48	0.0	0.0	0.1
202	06/11/2009 10:49	0.0	0.0	0.1
203	06/11/2009 10:50	0.0	0.0	0.2
204	06/11/2009 10:51	0.0	0.0	0.1
205	06/11/2009 10:52	0.0	0.0	0.5
206	06/11/2009 10:53	0.0	0.0	0.2
207	06/11/2009 10:54	0.0	0.0	0.2
208	06/11/2009 10:55	0.0	0.1	0.6
209	06/11/2009 10:56	0.0	0.0	0.2
210	06/11/2009 10:57	0.0	0.0	0.1
211	06/11/2009 10:58	0.0	0.0	0.1
212	06/11/2009 10:59	0.0	0.0	0.1
213	06/11/2009 11:00	0.0	0.0	0.1
214	06/11/2009 11:01	0.0	0.0	0.1
215	06/11/2009 11:02	0.0	0.0	0.1
216	06/11/2009 11:03	0.0	0.0	0.2
217	06/11/2009 11:04	0.0	0.0	0.2
218	06/11/2009 11:05	0.0	0.0	0.1
219	06/11/2009 11:06	0.0	0.0	0.3
220	06/11/2009 11:07	0.0	0.0	0.1
221	06/11/2009 11:08	0.0	0.0	0.3
222	06/11/2009 11:09	0.0	0.0	0.1
223	06/11/2009 11:10	0.0	0.0	0.1
224	06/11/2009 11:11	0.0	0.0	0.1
225	06/11/2009 11:12	0.0	0.0	0.1
226	06/11/2009 11:13	0.0	0.0	0.1
227	06/11/2009 11:14	0.0	0.0	0.1
228	06/11/2009 11:15	0.0	0.0	0.1
229	06/11/2009 11:16	0.0	0.0	0.1
230	06/11/2009 11:17	0.0	0.0	0.1
231	06/11/2009 11:18	0.0	0.0	0.1
232	06/11/2009 11:19	0.0	0.0	0.1
233	06/11/2009 11:20	0.0	0.0	0.1
234	06/11/2009 11:21	0.0	0.0	0.1
235	06/11/2009 11:22	0.0	0.0	0.1
236	06/11/2009 11:23	0.0	0.0	0.1
237	06/11/2009 11:24	0.0	0.0	0.1
238	06/11/2009 11:25	0.0	0.0	0.1
239	06/11/2009 11:26	0.0	0.0	0.1
240	06/11/2009 11:27	0.0	0.0	0.1
241	06/11/2009 11:28	0.0	0.0	0.1
242	06/11/2009 11:29	0.0	0.0	0.1
243	06/11/2009 11:30	0.0	0.0	0.1
244	06/11/2009 11:31	0.0	0.0	0.1
245	06/11/2009 11:32	0.0	0.0	0.5
246	06/11/2009 11:33	0.0	0.0	0.1
247	06/11/2009 11:34	0.0	0.0	0.1
248	06/11/2009 11:35	0.0	0.0	0.1
249	06/11/2009 11:36	0.0	0.0	0.1

250	06/11/2009 11:37	0.0	0.0	0.1
251	06/11/2009 11:38	0.1	0.1	0.1
252	06/11/2009 11:39	0.1	0.1	0.1
253	06/11/2009 11:40	0.1	0.1	0.1
254	06/11/2009 11:41	0.0	0.0	0.1
255	06/11/2009 11:42	0.0	0.0	0.1
256	06/11/2009 11:43	0.1	0.1	0.1
257	06/11/2009 11:44	0.0	0.0	0.2
258	06/11/2009 11:45	0.1	0.1	0.1
259	06/11/2009 11:46	0.0	0.0	0.2
260	06/11/2009 11:47	0.0	0.0	0.2
261	06/11/2009 11:48	0.1	0.1	0.2
262	06/11/2009 11:49	0.1	0.1	0.2
263	06/11/2009 11:50	0.1	0.1	0.3
264	06/11/2009 11:51	0.1	0.1	0.2
265	06/11/2009 11:52	0.1	0.1	0.2
266	06/11/2009 11:53	0.1	0.1	0.2
267	06/11/2009 11:54	0.0	0.1	0.2
268	06/11/2009 11:55	0.1	0.1	0.2
269	06/11/2009 11:56	0.1	0.1	0.1
270	06/11/2009 11:57	0.1	0.1	0.2
271	06/11/2009 11:58	0.1	0.1	0.2
272	06/11/2009 11:59	0.0	0.1	0.2
273	06/11/2009 12:00	0.1	0.1	0.2
274	06/11/2009 12:01	0.1	0.1	0.2
275	06/11/2009 12:02	0.1	0.1	0.2
276	06/11/2009 12:03	0.1	0.1	0.2
277	06/11/2009 12:04	0.1	0.1	0.2
278	06/11/2009 12:05	0.1	0.1	0.3
279	06/11/2009 12:06	0.1	0.1	0.2
280	06/11/2009 12:07	0.1	0.1	0.2
281	06/11/2009 12:08	0.1	0.1	0.2
282	06/11/2009 12:09	0.1	0.1	0.2
283	06/11/2009 12:10	0.1	0.1	0.2
284	06/11/2009 12:11	0.1	0.1	0.2
285	06/11/2009 12:12	0.1	0.1	0.2
286	06/11/2009 12:13	0.1	0.1	0.2
287	06/11/2009 12:14	0.1	0.1	0.2
288	06/11/2009 12:15	0.1	0.1	0.2
289	06/11/2009 12:16	0.1	0.1	0.2
290	06/11/2009 12:17	0.1	0.1	0.2
291	06/11/2009 12:18	0.1	0.1	0.2
292	06/11/2009 12:19	0.1	0.1	0.2
293	06/11/2009 12:20	0.1	0.1	0.2
294	06/11/2009 12:21	0.1	0.1	0.2
295	06/11/2009 12:22	0.1	0.1	0.2
296	06/11/2009 12:23	0.1	0.1	0.2
297	06/11/2009 12:24	0.1	0.1	0.2
298	06/11/2009 12:25	0.1	0.1	0.2
299	06/11/2009 12:26	0.1	0.1	0.2
300	06/11/2009 12:27	0.1	0.1	0.2
301	06/11/2009 12:28	0.1	0.1	0.2

302	06/11/2009 12:29	0.1	0.1	0.2
303	06/11/2009 12:30	0.1	0.1	0.2
304	06/11/2009 12:31	0.1	0.1	0.4
305	06/11/2009 12:32	0.1	0.2	0.5
306	06/11/2009 12:33	0.1	0.1	0.3
307	06/11/2009 12:34	0.1	0.1	0.5
308	06/11/2009 12:35	0.1	0.1	0.3
309	06/11/2009 12:36	0.1	0.1	0.2
310	06/11/2009 12:37	0.1	0.1	0.2
311	06/11/2009 12:38	0.1	0.1	0.3
312	06/11/2009 12:39	0.1	0.1	0.4
313	06/11/2009 12:40	0.1	0.1	0.2
314	06/11/2009 12:41	0.1	0.1	0.3
315	06/11/2009 12:42	0.1	0.1	0.2
316	06/11/2009 12:43	0.1	0.1	0.2
317	06/11/2009 12:44	0.1	0.1	0.3
318	06/11/2009 12:45	0.1	0.1	0.3
319	06/11/2009 12:46	0.1	0.1	0.3
320	06/11/2009 12:47	0.1	0.1	0.3
321	06/11/2009 12:48	0.1	0.1	0.2
322	06/11/2009 12:49	0.0	0.1	0.2
323	06/11/2009 12:50	0.1	0.1	0.2
324	06/11/2009 12:51	0.1	0.1	0.3
325	06/11/2009 12:52	0.1	0.1	0.2
326	06/11/2009 12:53	0.1	0.1	0.4
327	06/11/2009 12:54	0.1	0.1	0.2
328	06/11/2009 12:55	0.1	0.1	0.2
329	06/11/2009 12:56	0.1	0.1	0.2
330	06/11/2009 12:57	0.1	0.1	0.3
331	06/11/2009 12:58	0.1	0.1	0.2
332	06/11/2009 12:59	0.1	0.1	0.3
333	06/11/2009 13:00	0.1	0.1	0.2
334	06/11/2009 13:01	0.1	0.1	0.2
335	06/11/2009 13:02	0.0	0.1	0.2
336	06/11/2009 13:03	0.1	0.1	0.2
337	06/11/2009 13:04	0.1	0.1	0.2
338	06/11/2009 13:05	0.1	0.1	0.2
339	06/11/2009 13:06	0.1	0.1	0.2
340	06/11/2009 13:07	0.1	0.1	0.2
341	06/11/2009 13:08	0.1	0.1	0.2
342	06/11/2009 13:09	0.1	0.1	0.5
343	06/11/2009 13:10	0.1	0.1	0.3
344	06/11/2009 13:11	0.1	0.1	0.2
345	06/11/2009 13:12	0.1	0.1	0.3
346	06/11/2009 13:13	0.1	0.1	0.2
347	06/11/2009 13:14	0.1	0.1	0.3
348	06/11/2009 13:15	0.1	0.1	0.2
349	06/11/2009 13:16	0.1	0.1	0.2
350	06/11/2009 13:17	0.1	0.1	0.2
351	06/11/2009 13:18	0.1	0.1	0.3
352	06/11/2009 13:19	0.1	0.1	0.2
353	06/11/2009 13:20	0.1	0.1	0.2

354	06/11/2009 13:21	0.1	0.1	0.2
355	06/11/2009 13:22	0.0	0.0	0.2
356	06/11/2009 13:23	0.0	0.0	0.2
357	06/11/2009 13:24	0.0	0.1	0.2
358	06/11/2009 13:25	0.1	0.1	0.2
359	06/11/2009 13:26	0.1	0.1	0.2
360	06/11/2009 13:27	0.1	0.1	0.2
361	06/11/2009 13:28	0.1	0.1	0.4
362	06/11/2009 13:29	0.1	0.1	0.3
363	06/11/2009 13:30	0.1	0.1	0.5
364	06/11/2009 13:31	0.1	0.1	0.4
365	06/11/2009 13:32	0.1	0.1	0.5
366	06/11/2009 13:33	0.1	0.2	0.7
367	06/11/2009 13:34	0.1	0.1	0.5
368	06/11/2009 13:35	0.1	0.1	0.4
369	06/11/2009 13:36	0.1	0.1	0.3
370	06/11/2009 13:37	0.1	0.1	0.3
371	06/11/2009 13:38	0.1	0.1	0.2
372	06/11/2009 13:39	0.0	0.1	0.4
373	06/11/2009 13:40	0.1	0.1	0.3
374	06/11/2009 13:41	0.1	0.1	0.3
375	06/11/2009 13:42	0.1	0.1	0.2
376	06/11/2009 13:43	0.1	0.1	0.2
377	06/11/2009 13:44	0.0	0.1	0.2
378	06/11/2009 13:45	0.1	0.1	0.2
379	06/11/2009 13:46	0.1	0.1	0.4
380	06/11/2009 13:47	0.1	0.1	0.5
381	06/11/2009 13:48	0.1	0.2	0.5
382	06/11/2009 13:49	0.1	0.1	0.4
383	06/11/2009 13:50	0.1	0.1	0.3
384	06/11/2009 13:51	0.1	0.1	0.4
385	06/11/2009 13:52	0.1	0.1	0.4
386	06/11/2009 13:53	0.1	0.1	0.2
387	06/11/2009 13:54	0.1	0.2	0.8
388	06/11/2009 13:55	0.1	0.1	0.3
389	06/11/2009 13:56	0.1	0.1	0.4
390	06/11/2009 13:57	0.1	0.2	0.7
391	06/11/2009 13:58	0.1	0.2	0.6
392	06/11/2009 13:59	0.1	0.2	0.7
393	06/11/2009 14:00	0.1	0.2	0.7
394	06/11/2009 14:01	0.1	0.3	2.2
395	06/11/2009 14:02	0.1	0.2	0.5
396	06/11/2009 14:03	0.1	0.2	0.4
397	06/11/2009 14:04	0.1	0.2	0.5
398	06/11/2009 14:05	0.1	0.1	0.3
399	06/11/2009 14:06	0.1	0.2	0.6
400	06/11/2009 14:07	0.1	0.2	0.4
401	06/11/2009 14:08	0.1	0.2	0.4
402	06/11/2009 14:09	0.2	0.2	0.8
403	06/11/2009 14:10	0.1	0.3	0.7
404	06/11/2009 14:11	0.1	0.2	0.6
405	06/11/2009 14:12	0.2	0.3	0.7

406	06/11/2009 14:13	0.1	0.2	0.4
407	06/11/2009 14:14	0.1	0.2	0.6
408	06/11/2009 14:15	0.1	0.2	0.5
409	06/11/2009 14:16	0.1	0.1	0.3
410	06/11/2009 14:17	0.1	0.2	0.4
411	06/11/2009 14:18	0.2	0.4	1.1
412	06/11/2009 14:19	0.2	0.2	0.7
413	06/11/2009 14:20	0.1	0.2	0.3
414	06/11/2009 14:21	0.1	0.1	0.3
415	06/11/2009 14:22	0.1	0.1	0.2
416	06/11/2009 14:23	0.1	0.2	0.6
417	06/11/2009 14:24	0.2	0.3	0.6
418	06/11/2009 14:25	0.1	0.3	0.6
419	06/11/2009 14:26	0.1	0.1	0.3
420	06/11/2009 14:27	0.1	0.2	0.3
421	06/11/2009 14:28	0.1	0.3	0.8
422	06/11/2009 14:29	0.1	0.3	0.9
423	06/11/2009 14:30	0.1	0.2	0.4
424	06/11/2009 14:31	0.1	0.2	0.4
425	06/11/2009 14:32	0.1	0.2	0.5
426	06/11/2009 14:33	0.1	0.2	0.3
427	06/11/2009 14:34	0.2	0.2	0.5
428	06/11/2009 14:35	0.1	0.2	0.4
429	06/11/2009 14:36	0.1	0.2	0.7
430	06/11/2009 14:37	0.2	0.3	0.7
431	06/11/2009 14:38	0.1	0.2	0.4
432	06/11/2009 14:39	0.2	0.4	1.2
433	06/11/2009 14:40	0.1	0.2	0.6
434	06/11/2009 14:41	0.1	0.2	0.3
435	06/11/2009 14:42	0.1	0.2	0.3
436	06/11/2009 14:43	0.1	0.1	0.3
437	06/11/2009 14:44	0.1	0.2	0.3
438	06/11/2009 14:45	0.1	0.2	0.4
439	06/11/2009 14:46	0.1	0.2	0.3
440	06/11/2009 14:47	0.1	0.2	0.3
441	06/11/2009 14:48	0.1	0.2	0.7
442	06/11/2009 14:49	0.1	0.1	0.3
443	06/11/2009 14:50	0.1	0.1	0.3
444	06/11/2009 14:51	0.1	0.1	0.3
445	06/11/2009 14:52	0.1	0.2	0.3
446	06/11/2009 14:53	0.2	0.2	0.5
447	06/11/2009 14:54	0.1	0.2	0.6
448	06/11/2009 14:55	0.1	0.2	0.6
449	06/11/2009 14:56	0.1	0.2	0.4
450	06/11/2009 14:57	0.1	0.2	0.4
451	06/11/2009 14:58	0.1	0.3	0.6
452	06/11/2009 14:59	0.1	0.2	0.3
453	06/11/2009 15:00	0.2	0.2	0.3
454	06/11/2009 15:01	0.1	0.2	0.7
455	06/11/2009 15:02	0.1	0.1	0.3
456	06/11/2009 15:03	0.1	0.2	0.3
457	06/11/2009 15:04	0.2	0.2	0.4

458	06/11/2009 15:05	0.2	0.2	0.5
459	06/11/2009 15:06	0.2	0.2	0.3
460	06/11/2009 15:07	0.2	0.2	0.3
461	06/11/2009 15:08	0.2	0.2	0.3
462	06/11/2009 15:09	0.2	0.2	0.3
463	06/11/2009 15:10	0.1	0.2	0.3
464	06/11/2009 15:11	0.1	0.2	0.3
465	06/11/2009 15:12	0.2	0.2	0.4
466	06/11/2009 15:13	0.1	0.2	0.5
467	06/11/2009 15:14	0.1	0.2	0.4
468	06/11/2009 15:15	0.1	0.2	0.3
469	06/11/2009 15:16	0.1	0.2	0.3
470	06/11/2009 15:17	0.1	0.2	0.4
471	06/11/2009 15:18	0.1	0.2	0.5
472	06/11/2009 15:19	0.1	0.2	0.3
473	06/11/2009 15:20	0.2	0.2	0.5
474	06/11/2009 15:21	0.2	0.2	0.4
475	06/11/2009 15:22	0.2	0.2	0.3
476	06/11/2009 15:23	0.2	0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 489 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/11/2009 06:54      0.0         0.0         0.0
2 06/11/2009 06:55      0.0         0.0         0.0
3 06/11/2009 06:56      0.0         0.0         0.0
4 06/11/2009 06:57      0.0         0.0         0.0
5 06/11/2009 06:58      0.0         0.0         0.0
6 06/11/2009 06:59      0.0         0.0         0.0
7 06/11/2009 07:00      0.0         0.0         0.0
8 06/11/2009 07:01      0.0         0.0         0.0
9 06/11/2009 07:02      0.0         0.0         0.0
10 06/11/2009 07:03      0.0         0.0         0.0
11 06/11/2009 07:04      0.0         0.0         0.0
12 06/11/2009 07:05      0.0         0.0         0.0
13 06/11/2009 07:06      0.0         0.0         0.0
14 06/11/2009 07:07      0.0         0.0         0.0
15 06/11/2009 07:08      0.0         0.0         0.0
16 06/11/2009 07:09      0.0         0.0         0.0
17 06/11/2009 07:10      0.0         0.0         0.0
18 06/11/2009 07:11      0.0         0.0         0.0
19 06/11/2009 07:12      0.0         0.0         0.0
20 06/11/2009 07:13      0.0         0.0         0.0
21 06/11/2009 07:14      0.0         0.0         0.0
22 06/11/2009 07:15      0.0         0.0         0.0
23 06/11/2009 07:16      0.0         0.0         0.0
24 06/11/2009 07:17      0.0         0.0         0.0
25 06/11/2009 07:18      0.0         0.0         0.0
26 06/11/2009 07:19      0.0         0.0         0.0
27 06/11/2009 07:20      0.0         0.0         0.0
28 06/11/2009 07:21      0.0         0.0         0.0
29 06/11/2009 07:22      0.0         0.0         0.0
30 06/11/2009 07:23      0.0         0.0         0.0
31 06/11/2009 07:24      0.0         0.0         0.0
32 06/11/2009 07:25      0.0         0.0         0.0
33 06/11/2009 07:26      0.0         0.0         0.0
34 06/11/2009 07:27      0.0         0.0         0.0
35 06/11/2009 07:28      0.0         0.0         0.0
36 06/11/2009 07:29      0.0         0.0         0.0
37 06/11/2009 07:30      0.0         0.0         0.0
38 06/11/2009 07:31      0.0         0.0         0.0
39 06/11/2009 07:32      0.0         0.0         0.0
40 06/11/2009 07:33      0.0         0.0         0.0
41 06/11/2009 07:34      0.0         0.0         0.0
```

42	06/11/2009 07:35	0.0	0.0	0.0
43	06/11/2009 07:36	0.0	0.0	0.0
44	06/11/2009 07:37	0.0	0.0	0.0
45	06/11/2009 07:38	0.0	0.0	0.0
46	06/11/2009 07:39	0.0	0.0	0.0
47	06/11/2009 07:40	0.0	0.0	0.0
48	06/11/2009 07:41	0.0	0.0	0.0
49	06/11/2009 07:42	0.0	0.0	0.0
50	06/11/2009 07:43	0.0	0.0	0.0
51	06/11/2009 07:44	0.0	0.0	0.0
52	06/11/2009 07:45	0.0	0.0	0.0
53	06/11/2009 07:46	0.0	0.0	0.0
54	06/11/2009 07:47	0.0	0.0	0.0
55	06/11/2009 07:48	0.0	0.0	0.0
56	06/11/2009 07:49	0.0	0.0	0.0
57	06/11/2009 07:50	0.0	0.0	0.0
58	06/11/2009 07:51	0.0	0.0	0.0
59	06/11/2009 07:52	0.0	0.0	0.0
60	06/11/2009 07:53	0.0	0.0	0.0
61	06/11/2009 07:54	0.0	0.0	0.0
62	06/11/2009 07:55	0.0	0.0	0.0
63	06/11/2009 07:56	0.0	0.0	0.0
64	06/11/2009 07:57	0.0	0.0	0.0
65	06/11/2009 07:58	0.0	0.0	0.0
66	06/11/2009 07:59	0.0	0.0	0.0
67	06/11/2009 08:00	0.0	0.0	0.0
68	06/11/2009 08:01	0.0	0.0	0.0
69	06/11/2009 08:02	0.0	0.0	0.0
70	06/11/2009 08:03	0.0	0.0	0.0
71	06/11/2009 08:04	0.0	0.0	0.0
72	06/11/2009 08:05	0.0	0.0	0.0
73	06/11/2009 08:06	0.0	0.0	0.0
74	06/11/2009 08:07	0.0	0.0	0.0
75	06/11/2009 08:08	0.0	0.0	0.0
76	06/11/2009 08:09	0.0	0.0	0.0
77	06/11/2009 08:10	0.0	0.0	0.0
78	06/11/2009 08:11	0.0	0.0	0.0
79	06/11/2009 08:12	0.0	0.0	0.0
80	06/11/2009 08:13	0.0	0.0	0.0
81	06/11/2009 08:14	0.0	0.0	0.0
82	06/11/2009 08:15	0.0	0.0	0.0
83	06/11/2009 08:16	0.0	0.0	0.0
84	06/11/2009 08:17	0.0	0.0	0.0
85	06/11/2009 08:18	0.0	0.0	0.0
86	06/11/2009 08:19	0.0	0.0	0.0
87	06/11/2009 08:20	0.0	0.0	0.0
88	06/11/2009 08:21	0.0	0.0	0.0
89	06/11/2009 08:22	0.0	0.0	0.0
90	06/11/2009 08:23	0.0	0.0	0.0
91	06/11/2009 08:24	0.0	0.0	0.0
92	06/11/2009 08:25	0.0	0.0	0.0
93	06/11/2009 08:26	0.0	0.0	0.0



94	06/11/2009 08:27	0.0	0.0	0.0
95	06/11/2009 08:28	0.0	0.0	0.0
96	06/11/2009 08:29	0.0	0.0	0.0
97	06/11/2009 08:30	0.0	0.0	0.0
98	06/11/2009 08:31	0.0	0.0	0.0
99	06/11/2009 08:32	0.0	0.0	0.0
100	06/11/2009 08:33	0.0	0.0	0.0
101	06/11/2009 08:34	0.0	0.0	0.0
102	06/11/2009 08:35	0.0	0.0	0.0
103	06/11/2009 08:36	0.0	0.0	0.0
104	06/11/2009 08:37	0.0	0.0	0.0
105	06/11/2009 08:38	0.0	0.0	0.0
106	06/11/2009 08:39	0.0	0.0	0.0
107	06/11/2009 08:40	0.0	0.0	0.0
108	06/11/2009 08:41	0.0	0.0	0.0
109	06/11/2009 08:42	0.0	0.0	0.0
110	06/11/2009 08:43	0.0	0.0	0.0
111	06/11/2009 08:44	0.0	0.0	0.1
112	06/11/2009 08:45	0.0	0.0	0.1
113	06/11/2009 08:46	0.0	0.0	0.1
114	06/11/2009 08:47	0.0	0.0	0.1
115	06/11/2009 08:48	0.0	0.0	0.1
116	06/11/2009 08:49	0.0	0.0	0.1
117	06/11/2009 08:50	0.1	0.1	0.1
118	06/11/2009 08:51	0.0	0.0	0.1
119	06/11/2009 08:52	0.1	0.1	0.1
120	06/11/2009 08:53	0.1	0.1	0.1
121	06/11/2009 08:54	0.1	0.1	0.1
122	06/11/2009 08:55	0.1	0.1	0.1
123	06/11/2009 08:56	0.1	0.1	0.1
124	06/11/2009 08:57	0.1	0.1	0.1
125	06/11/2009 08:58	0.1	0.1	0.1
126	06/11/2009 08:59	0.1	0.1	0.1
127	06/11/2009 09:00	0.1	0.1	0.1
128	06/11/2009 09:01	0.1	0.1	0.1
129	06/11/2009 09:02	0.1	0.1	0.2
130	06/11/2009 09:03	0.1	0.1	0.1
131	06/11/2009 09:04	0.1	0.1	0.1
132	06/11/2009 09:05	0.1	0.1	0.1
133	06/11/2009 09:06	0.1	0.1	0.1
134	06/11/2009 09:07	0.1	0.1	0.1
135	06/11/2009 09:08	0.1	0.1	0.1
136	06/11/2009 09:09	0.1	0.1	0.1
137	06/11/2009 09:10	0.1	0.1	0.1
138	06/11/2009 09:11	0.1	0.1	0.1
139	06/11/2009 09:12	0.1	0.1	0.1
140	06/11/2009 09:13	0.1	0.1	0.1
141	06/11/2009 09:14	0.1	0.1	0.1
142	06/11/2009 09:15	0.1	0.1	0.1
143	06/11/2009 09:16	0.1	0.1	0.1
144	06/11/2009 09:17	0.1	0.1	0.1
145	06/11/2009 09:18	0.1	0.1	0.1

146	06/11/2009 09:19	0.1	0.1	0.1
147	06/11/2009 09:20	0.1	0.1	0.1
148	06/11/2009 09:21	0.1	0.1	0.1
149	06/11/2009 09:22	0.1	0.1	0.1
150	06/11/2009 09:23	0.1	0.1	0.1
151	06/11/2009 09:24	0.1	0.1	0.1
152	06/11/2009 09:25	0.1	0.1	0.1
153	06/11/2009 09:26	0.1	0.1	0.1
154	06/11/2009 09:27	0.1	0.1	0.1
155	06/11/2009 09:28	0.1	0.1	0.1
156	06/11/2009 09:29	0.1	0.1	0.1
157	06/11/2009 09:30	0.1	0.1	0.1
158	06/11/2009 09:31	0.1	0.1	0.1
159	06/11/2009 09:32	0.1	0.1	0.1
160	06/11/2009 09:33	0.1	0.1	0.1
161	06/11/2009 09:34	0.1	0.1	0.1
162	06/11/2009 09:35	0.1	0.1	0.1
163	06/11/2009 09:36	0.1	0.1	0.1
164	06/11/2009 09:37	0.0	0.0	0.1
165	06/11/2009 09:38	0.0	0.0	0.1
166	06/11/2009 09:39	0.0	0.0	0.1
167	06/11/2009 09:40	0.1	0.1	0.1
168	06/11/2009 09:41	0.0	0.0	0.1
169	06/11/2009 09:42	0.0	0.0	0.1
170	06/11/2009 09:43	0.0	0.0	0.1
171	06/11/2009 09:44	0.0	0.0	0.1
172	06/11/2009 09:45	0.0	0.0	0.1
173	06/11/2009 09:46	0.0	0.0	0.1
174	06/11/2009 09:47	0.0	0.0	0.1
175	06/11/2009 09:48	0.0	0.0	0.1
176	06/11/2009 09:49	0.0	0.0	0.1
177	06/11/2009 09:50	0.0	0.0	0.1
178	06/11/2009 09:51	0.0	0.0	0.1
179	06/11/2009 09:52	0.0	0.0	0.1
180	06/11/2009 09:53	0.0	0.0	0.1
181	06/11/2009 09:54	0.0	0.0	0.1
182	06/11/2009 09:55	0.0	0.0	0.1
183	06/11/2009 09:56	0.0	0.0	0.1
184	06/11/2009 09:57	0.0	0.0	0.1
185	06/11/2009 09:58	0.0	0.0	0.1
186	06/11/2009 09:59	0.1	0.1	0.1
187	06/11/2009 10:00	0.1	0.1	0.1
188	06/11/2009 10:01	0.0	0.0	0.1
189	06/11/2009 10:02	0.0	0.0	0.1
190	06/11/2009 10:03	0.0	0.0	0.1
191	06/11/2009 10:04	0.1	0.1	0.1
192	06/11/2009 10:05	0.1	0.1	0.1
193	06/11/2009 10:06	0.1	0.1	0.1
194	06/11/2009 10:07	0.1	0.1	0.1
195	06/11/2009 10:08	0.1	0.1	0.1
196	06/11/2009 10:09	0.1	0.1	0.1
197	06/11/2009 10:10	0.1	0.1	0.1

198	06/11/2009 10:11	0.1	0.1	0.1
199	06/11/2009 10:12	0.1	0.1	0.1
200	06/11/2009 10:13	0.1	0.1	0.1
201	06/11/2009 10:14	0.1	0.1	0.1
202	06/11/2009 10:15	0.1	0.1	0.1
203	06/11/2009 10:16	0.1	0.1	0.1
204	06/11/2009 10:17	0.1	0.1	0.1
205	06/11/2009 10:18	0.1	0.1	0.1
206	06/11/2009 10:19	0.1	0.1	0.1
207	06/11/2009 10:20	0.1	0.1	0.1
208	06/11/2009 10:21	0.1	0.1	0.1
209	06/11/2009 10:22	0.1	0.1	0.1
210	06/11/2009 10:23	0.1	0.1	0.1
211	06/11/2009 10:24	0.1	0.1	0.1
212	06/11/2009 10:25	0.1	0.1	0.1
213	06/11/2009 10:26	0.1	0.1	0.2
214	06/11/2009 10:27	0.1	0.1	0.1
215	06/11/2009 10:28	0.1	0.1	0.1
216	06/11/2009 10:29	0.1	0.1	0.1
217	06/11/2009 10:30	0.1	0.1	0.1
218	06/11/2009 10:31	0.1	0.1	0.1
219	06/11/2009 10:32	0.1	0.1	0.1
220	06/11/2009 10:33	0.1	0.1	0.1
221	06/11/2009 10:34	0.1	0.1	0.1
222	06/11/2009 10:35	0.1	0.1	0.1
223	06/11/2009 10:36	0.1	0.1	0.1
224	06/11/2009 10:37	0.1	0.1	0.1
225	06/11/2009 10:38	0.1	0.1	0.1
226	06/11/2009 10:39	0.1	0.1	0.1
227	06/11/2009 10:40	0.1	0.1	0.1
228	06/11/2009 10:41	0.1	0.1	0.1
229	06/11/2009 10:42	0.1	0.1	0.1
230	06/11/2009 10:43	0.1	0.1	0.2
231	06/11/2009 10:44	0.1	0.1	0.2
232	06/11/2009 10:45	0.1	0.1	0.2
233	06/11/2009 10:46	0.1	0.1	0.2
234	06/11/2009 10:47	0.1	0.1	0.2
235	06/11/2009 10:48	0.1	0.1	0.2
236	06/11/2009 10:49	0.1	0.1	0.1
237	06/11/2009 10:50	0.1	0.1	0.1
238	06/11/2009 10:51	0.1	0.1	0.1
239	06/11/2009 10:52	0.1	0.1	0.1
240	06/11/2009 10:53	0.1	0.1	0.1
241	06/11/2009 10:54	0.1	0.1	0.1
242	06/11/2009 10:55	0.1	0.1	0.1
243	06/11/2009 10:56	0.1	0.1	0.1
244	06/11/2009 10:57	0.1	0.1	0.2
245	06/11/2009 10:58	0.1	0.1	0.2
246	06/11/2009 10:59	0.1	0.1	0.1
247	06/11/2009 11:00	0.1	0.1	0.2
248	06/11/2009 11:01	0.1	0.1	0.2
249	06/11/2009 11:02	0.1	0.1	0.2

250	06/11/2009 11:03	0.1	0.1	0.2
251	06/11/2009 11:04	0.1	0.1	0.2
252	06/11/2009 11:05	0.1	0.1	0.2
253	06/11/2009 11:06	0.1	0.1	0.2
254	06/11/2009 11:07	0.1	0.1	0.2
255	06/11/2009 11:08	0.1	0.1	0.2
256	06/11/2009 11:09	0.1	0.1	0.2
257	06/11/2009 11:10	0.1	0.1	0.2
258	06/11/2009 11:11	0.1	0.1	0.2
259	06/11/2009 11:12	0.2	0.2	0.2
260	06/11/2009 11:13	0.2	0.2	0.2
261	06/11/2009 11:14	0.2	0.2	0.3
262	06/11/2009 11:15	0.2	0.2	0.2
263	06/11/2009 11:16	0.2	0.2	0.2
264	06/11/2009 11:17	0.2	0.2	0.2
265	06/11/2009 11:18	0.2	0.2	0.2
266	06/11/2009 11:19	0.2	0.2	0.3
267	06/11/2009 11:20	0.2	0.2	0.2
268	06/11/2009 11:21	0.2	0.2	0.2
269	06/11/2009 11:22	0.2	0.2	0.2
270	06/11/2009 11:23	0.2	0.2	0.2
271	06/11/2009 11:24	0.2	0.2	0.2
272	06/11/2009 11:25	0.2	0.2	0.2
273	06/11/2009 11:26	0.2	0.2	0.2
274	06/11/2009 11:27	0.2	0.2	0.2
275	06/11/2009 11:28	0.2	0.2	0.2
276	06/11/2009 11:29	0.2	0.2	0.3
277	06/11/2009 11:30	0.2	0.2	0.3
278	06/11/2009 11:31	0.2	0.2	0.2
279	06/11/2009 11:32	0.2	0.2	0.2
280	06/11/2009 11:33	0.2	0.2	0.2
281	06/11/2009 11:34	0.2	0.2	0.2
282	06/11/2009 11:35	0.2	0.2	0.2
283	06/11/2009 11:36	0.2	0.2	0.3
284	06/11/2009 11:37	0.2	0.2	0.3
285	06/11/2009 11:38	0.2	0.2	0.2
286	06/11/2009 11:39	0.2	0.2	0.3
287	06/11/2009 11:40	0.2	0.2	0.3
288	06/11/2009 11:41	0.2	0.2	0.2
289	06/11/2009 11:42	0.2	0.2	0.2
290	06/11/2009 11:43	0.2	0.2	0.2
291	06/11/2009 11:44	0.2	0.2	0.3
292	06/11/2009 11:45	0.2	0.2	0.2
293	06/11/2009 11:46	0.2	0.2	0.2
294	06/11/2009 11:47	0.2	0.2	0.3
295	06/11/2009 11:48	0.2	0.2	0.2
296	06/11/2009 11:49	0.2	0.2	0.3
297	06/11/2009 11:50	0.2	0.2	0.2
298	06/11/2009 11:51	0.2	0.2	0.2
299	06/11/2009 11:52	0.2	0.2	0.2
300	06/11/2009 11:53	0.2	0.2	0.2
301	06/11/2009 11:54	0.2	0.2	0.2

302	06/11/2009 11:55	0.2	0.2	0.2
303	06/11/2009 11:56	0.2	0.2	0.2
304	06/11/2009 11:57	0.2	0.2	0.2
305	06/11/2009 11:58	0.2	0.2	0.2
306	06/11/2009 11:59	0.2	0.2	0.2
307	06/11/2009 12:00	0.2	0.2	0.2
308	06/11/2009 12:01	0.2	0.2	0.2
309	06/11/2009 12:02	0.2	0.2	0.2
310	06/11/2009 12:03	0.2	0.2	0.2
311	06/11/2009 12:04	0.2	0.2	0.2
312	06/11/2009 12:05	0.2	0.2	0.2
313	06/11/2009 12:06	0.2	0.2	0.2
314	06/11/2009 12:07	0.2	0.2	0.2
315	06/11/2009 12:08	0.2	0.2	0.2
316	06/11/2009 12:09	0.2	0.2	0.3
317	06/11/2009 12:10	0.2	0.2	0.2
318	06/11/2009 12:11	0.2	0.2	0.2
319	06/11/2009 12:12	0.2	0.2	0.2
320	06/11/2009 12:13	0.2	0.2	0.2
321	06/11/2009 12:14	0.2	0.2	0.2
322	06/11/2009 12:15	0.2	0.2	0.2
323	06/11/2009 12:16	0.2	0.2	0.2
324	06/11/2009 12:17	0.2	0.2	0.2
325	06/11/2009 12:18	0.2	0.2	0.2
326	06/11/2009 12:19	0.2	0.2	0.2
327	06/11/2009 12:20	0.2	0.2	0.2
328	06/11/2009 12:21	0.2	0.2	0.2
329	06/11/2009 12:22	0.2	0.2	0.2
330	06/11/2009 12:23	0.2	0.2	0.2
331	06/11/2009 12:24	0.2	0.2	0.2
332	06/11/2009 12:25	0.2	0.2	0.2
333	06/11/2009 12:26	0.2	0.2	0.2
334	06/11/2009 12:27	0.2	0.2	0.2
335	06/11/2009 12:28	0.2	0.2	0.2
336	06/11/2009 12:29	0.2	0.2	0.2
337	06/11/2009 12:30	0.2	0.2	0.2
338	06/11/2009 12:31	0.2	0.2	0.2
339	06/11/2009 12:32	0.2	0.2	0.2
340	06/11/2009 12:33	0.2	0.2	0.3
341	06/11/2009 12:34	0.2	0.2	0.2
342	06/11/2009 12:35	0.2	0.2	0.2
343	06/11/2009 12:36	0.2	0.2	0.2
344	06/11/2009 12:37	0.2	0.2	0.2
345	06/11/2009 12:38	0.2	0.2	0.2
346	06/11/2009 12:39	0.2	0.2	0.2
347	06/11/2009 12:40	0.2	0.2	0.2
348	06/11/2009 12:41	0.2	0.2	0.2
349	06/11/2009 12:42	0.2	0.2	0.2
350	06/11/2009 12:43	0.2	0.2	0.2
351	06/11/2009 12:44	0.2	0.2	0.2
352	06/11/2009 12:45	0.2	0.2	0.3
353	06/11/2009 12:46	0.2	0.2	0.2

354	06/11/2009 12:47	0.2	0.2	0.2
355	06/11/2009 12:48	0.2	0.2	0.2
356	06/11/2009 12:49	0.2	0.2	0.2
357	06/11/2009 12:50	0.2	0.2	0.2
358	06/11/2009 12:51	0.2	0.2	0.3
359	06/11/2009 12:52	0.2	0.2	0.2
360	06/11/2009 12:53	0.2	0.2	0.2
361	06/11/2009 12:54	0.2	0.2	0.2
362	06/11/2009 12:55	0.2	0.2	0.2
363	06/11/2009 12:56	0.2	0.2	0.2
364	06/11/2009 12:57	0.2	0.2	0.2
365	06/11/2009 12:58	0.2	0.2	0.2
366	06/11/2009 12:59	0.2	0.2	0.2
367	06/11/2009 13:00	0.2	0.2	0.2
368	06/11/2009 13:01	0.2	0.2	0.3
369	06/11/2009 13:02	0.2	0.2	0.2
370	06/11/2009 13:03	0.2	0.2	0.2
371	06/11/2009 13:04	0.2	0.2	0.2
372	06/11/2009 13:05	0.2	0.2	0.2
373	06/11/2009 13:06	0.2	0.2	0.2
374	06/11/2009 13:07	0.2	0.2	0.2
375	06/11/2009 13:08	0.2	0.2	0.2
376	06/11/2009 13:09	0.2	0.2	0.2
377	06/11/2009 13:10	0.2	0.2	0.3
378	06/11/2009 13:11	0.2	0.2	0.2
379	06/11/2009 13:12	0.2	0.2	0.3
380	06/11/2009 13:13	0.2	0.2	0.2
381	06/11/2009 13:14	0.2	0.2	0.2
382	06/11/2009 13:15	0.2	0.2	0.2
383	06/11/2009 13:16	0.2	0.2	0.2
384	06/11/2009 13:17	0.2	0.2	0.2
385	06/11/2009 13:18	0.2	0.2	0.3
386	06/11/2009 13:19	0.2	0.2	0.2
387	06/11/2009 13:20	0.2	0.2	0.3
388	06/11/2009 13:21	0.2	0.2	0.2
389	06/11/2009 13:22	0.2	0.2	0.3
390	06/11/2009 13:23	0.2	0.2	0.3
391	06/11/2009 13:24	0.2	0.2	0.3
392	06/11/2009 13:25	0.2	0.2	0.3
393	06/11/2009 13:26	0.2	0.2	0.3
394	06/11/2009 13:27	0.2	0.2	0.2
395	06/11/2009 13:28	0.2	0.2	0.2
396	06/11/2009 13:29	0.2	0.2	0.2
397	06/11/2009 13:30	0.2	0.2	0.3
398	06/11/2009 13:31	0.2	0.2	0.3
399	06/11/2009 13:32	0.2	0.2	0.3
400	06/11/2009 13:33	0.2	0.2	0.3
401	06/11/2009 13:34	0.2	0.2	0.3
402	06/11/2009 13:35	0.2	0.2	0.3
403	06/11/2009 13:36	0.2	0.2	0.2
404	06/11/2009 13:37	0.2	0.2	0.2
405	06/11/2009 13:38	0.2	0.2	0.3

406	06/11/2009 13:39	0.2	0.2	0.3
407	06/11/2009 13:40	0.2	0.2	0.3
408	06/11/2009 13:41	0.2	0.2	0.3
409	06/11/2009 13:42	0.2	0.2	0.3
410	06/11/2009 13:43	0.2	0.2	0.2
411	06/11/2009 13:44	0.2	0.2	0.2
412	06/11/2009 13:45	0.2	0.2	0.2
413	06/11/2009 13:46	0.2	0.2	0.3
414	06/11/2009 13:47	0.2	0.2	0.3
415	06/11/2009 13:48	0.2	0.2	0.3
416	06/11/2009 13:49	0.2	0.2	0.3
417	06/11/2009 13:50	0.2	0.2	0.3
418	06/11/2009 13:51	0.2	0.2	0.3
419	06/11/2009 13:52	0.2	0.2	0.3
420	06/11/2009 13:53	0.2	0.2	0.3
421	06/11/2009 13:54	0.2	0.2	0.3
422	06/11/2009 13:55	0.2	0.2	0.3
423	06/11/2009 13:56	0.2	0.2	0.3
424	06/11/2009 13:57	0.2	0.2	0.3
425	06/11/2009 13:58	0.2	0.2	0.3
426	06/11/2009 13:59	0.2	0.2	0.3
427	06/11/2009 14:00	0.2	0.2	0.3
428	06/11/2009 14:01	0.2	0.2	0.3
429	06/11/2009 14:02	0.2	0.2	0.3
430	06/11/2009 14:03	0.2	0.2	0.3
431	06/11/2009 14:04	0.2	0.2	0.3
432	06/11/2009 14:05	0.2	0.2	0.3
433	06/11/2009 14:06	0.2	0.2	0.3
434	06/11/2009 14:07	0.2	0.2	0.3
435	06/11/2009 14:08	0.2	0.2	0.2
436	06/11/2009 14:09	0.2	0.2	0.3
437	06/11/2009 14:10	0.2	0.2	0.3
438	06/11/2009 14:11	0.2	0.2	0.3
439	06/11/2009 14:12	0.2	0.2	0.3
440	06/11/2009 14:13	0.2	0.2	0.3
441	06/11/2009 14:14	0.2	0.2	0.3
442	06/11/2009 14:15	0.2	0.2	0.3
443	06/11/2009 14:16	0.2	0.2	0.3
444	06/11/2009 14:17	0.2	0.2	0.3
445	06/11/2009 14:18	0.2	0.2	0.2
446	06/11/2009 14:19	0.2	0.2	0.2
447	06/11/2009 14:20	0.2	0.2	0.3
448	06/11/2009 14:21	0.2	0.2	0.3
449	06/11/2009 14:22	0.2	0.2	0.3
450	06/11/2009 14:23	0.2	0.2	0.3
451	06/11/2009 14:24	0.2	0.2	0.3
452	06/11/2009 14:25	0.2	0.2	0.3
453	06/11/2009 14:26	0.2	0.2	0.3
454	06/11/2009 14:27	0.2	0.2	0.3
455	06/11/2009 14:28	0.2	0.2	0.3
456	06/11/2009 14:29	0.2	0.2	0.3
457	06/11/2009 14:30	0.2	0.2	0.3

458	06/11/2009 14:31	0.2	0.2	0.3
459	06/11/2009 14:32	0.2	0.2	0.3
460	06/11/2009 14:33	0.2	0.2	0.3
461	06/11/2009 14:34	0.2	0.2	0.3
462	06/11/2009 14:35	0.2	0.2	0.3
463	06/11/2009 14:36	0.2	0.2	0.3
464	06/11/2009 14:37	0.2	0.2	0.3
465	06/11/2009 14:38	0.2	0.2	0.3
466	06/11/2009 14:39	0.2	0.2	0.3
467	06/11/2009 14:40	0.2	0.2	0.2
468	06/11/2009 14:41	0.2	0.2	0.2
469	06/11/2009 14:42	0.2	0.2	0.3
470	06/11/2009 14:43	0.2	0.2	0.3
471	06/11/2009 14:44	0.2	0.2	0.3
472	06/11/2009 14:45	0.2	0.2	0.3
473	06/11/2009 14:46	0.2	0.2	0.3
474	06/11/2009 14:47	0.2	0.2	0.3
475	06/11/2009 14:48	0.2	0.2	0.3
476	06/11/2009 14:49	0.2	0.2	0.3
477	06/11/2009 14:50	0.2	0.2	0.3
478	06/11/2009 14:51	0.2	0.2	0.3
479	06/11/2009 14:52	0.2	0.2	0.3
480	06/11/2009 14:53	0.2	0.2	0.3
481	06/11/2009 14:54	0.2	0.2	0.2
482	06/11/2009 14:55	0.2	0.2	0.3
483	06/11/2009 14:56	0.2	0.2	0.3
484	06/11/2009 14:57	0.2	0.2	0.3
485	06/11/2009 14:58	0.2	0.2	0.3
486	06/11/2009 14:59	0.2	0.2	0.3
487	06/11/2009 15:00	0.2	0.2	0.2
488	06/11/2009 15:01	0.2	0.2	0.3
489	06/11/2009 15:02	0.2	0.2	0.3



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Instrument: MiniRAE 2000 (PGM7600)      Serial Number: 011894  
User ID: 00000001      Site ID: Station2  
Data Points: 491      Gas Name: Isobutylene      Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

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Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
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1	06/11/2009 06:51	0.0	0.0	0.0
2	06/11/2009 06:52	0.0	0.0	0.0
3	06/11/2009 06:53	0.0	0.0	0.0
4	06/11/2009 06:54	0.0	0.0	0.0
5	06/11/2009 06:55	0.0	0.0	0.0
6	06/11/2009 06:56	0.0	0.0	0.0
7	06/11/2009 06:57	0.0	0.0	0.0
8	06/11/2009 06:58	0.0	0.0	0.0
9	06/11/2009 06:59	0.0	0.0	0.0
10	06/11/2009 07:00	0.0	0.0	0.0
11	06/11/2009 07:01	0.0	0.0	0.0
12	06/11/2009 07:02	0.0	0.0	0.0
13	06/11/2009 07:03	0.0	0.0	0.0
14	06/11/2009 07:04	0.0	0.0	0.0
15	06/11/2009 07:05	0.0	0.0	0.0
16	06/11/2009 07:06	0.0	0.0	0.0
17	06/11/2009 07:07	0.0	0.0	0.0
18	06/11/2009 07:08	0.0	0.0	0.0
19	06/11/2009 07:09	0.0	0.0	0.0
20	06/11/2009 07:10	0.0	0.0	0.4
21	06/11/2009 07:11	0.0	0.0	0.0
22	06/11/2009 07:12	0.0	0.0	0.0
23	06/11/2009 07:13	0.0	0.0	0.0
24	06/11/2009 07:14	0.0	0.0	0.0
25	06/11/2009 07:15	0.0	0.0	0.0
26	06/11/2009 07:16	0.0	0.0	0.0
27	06/11/2009 07:17	0.0	0.0	0.0

28	06/11/2009 07:18	0.0	0.0	0.0
29	06/11/2009 07:19	0.0	0.0	0.0
30	06/11/2009 07:20	0.0	0.0	0.0
31	06/11/2009 07:21	0.0	0.0	0.0
32	06/11/2009 07:22	0.0	0.0	0.0
33	06/11/2009 07:23	0.0	0.0	0.0
34	06/11/2009 07:24	0.0	0.0	0.0
35	06/11/2009 07:25	0.0	0.0	0.0
36	06/11/2009 07:26	0.0	0.0	0.2
37	06/11/2009 07:27	0.0	0.0	0.1
38	06/11/2009 07:28	0.0	0.0	0.2
39	06/11/2009 07:29	0.0	0.0	0.1
40	06/11/2009 07:30	0.0	0.0	0.1
41	06/11/2009 07:31	0.0	0.0	0.5
42	06/11/2009 07:32	0.0	0.0	1.0
43	06/11/2009 07:33	0.0	0.0	0.0
44	06/11/2009 07:34	0.0	0.0	0.1
45	06/11/2009 07:35	0.0	0.0	0.2
46	06/11/2009 07:36	0.0	0.0	0.0
47	06/11/2009 07:37	0.0	0.0	0.5
48	06/11/2009 07:38	0.0	0.0	0.2
49	06/11/2009 07:39	0.0	0.0	0.9
50	06/11/2009 07:40	0.0	0.0	1.3
51	06/11/2009 07:41	0.0	0.0	0.0
52	06/11/2009 07:42	0.0	0.0	0.1
53	06/11/2009 07:43	0.0	0.0	0.0
54	06/11/2009 07:44	0.0	0.0	0.1
55	06/11/2009 07:45	0.0	0.0	0.1
56	06/11/2009 07:46	0.0	0.0	0.1
57	06/11/2009 07:47	0.0	0.0	0.4
58	06/11/2009 07:48	0.0	0.0	0.3
59	06/11/2009 07:49	0.0	0.0	0.1
60	06/11/2009 07:50	0.0	0.0	0.1
61	06/11/2009 07:51	0.0	0.0	0.1
62	06/11/2009 07:52	0.0	0.0	0.1
63	06/11/2009 07:53	0.0	0.0	0.1
64	06/11/2009 07:54	0.0	0.0	0.2
65	06/11/2009 07:55	0.0	0.0	0.1
66	06/11/2009 07:56	0.0	0.0	0.1
67	06/11/2009 07:57	0.0	0.1	0.7
68	06/11/2009 07:58	0.0	0.1	0.6
69	06/11/2009 07:59	0.0	0.0	0.1
70	06/11/2009 08:00	0.0	0.1	0.2
71	06/11/2009 08:01	0.0	0.0	0.1
72	06/11/2009 08:02	0.0	0.0	0.2
73	06/11/2009 08:03	0.0	0.0	0.1
74	06/11/2009 08:04	0.0	0.0	0.1
75	06/11/2009 08:05	0.0	0.0	0.1
76	06/11/2009 08:06	0.0	0.0	0.1
77	06/11/2009 08:07	0.0	0.0	0.1
78	06/11/2009 08:08	0.0	0.0	0.1
79	06/11/2009 08:09	0.0	0.1	1.0

80	06/11/2009 08:10	0.0	0.0	0.1
81	06/11/2009 08:11	0.0	0.0	0.1
82	06/11/2009 08:12	0.0	0.0	0.1
83	06/11/2009 08:13	0.0	0.0	0.1
84	06/11/2009 08:14	0.0	0.0	0.1
85	06/11/2009 08:15	0.0	0.0	0.1
86	06/11/2009 08:16	0.1	0.1	0.1
87	06/11/2009 08:17	0.1	0.1	0.1
88	06/11/2009 08:18	0.1	0.1	0.1
89	06/11/2009 08:19	0.1	0.1	0.1
90	06/11/2009 08:20	0.1	0.1	0.1
91	06/11/2009 08:21	0.1	0.1	0.1
92	06/11/2009 08:22	0.1	0.1	0.1
93	06/11/2009 08:23	0.1	0.1	0.2
94	06/11/2009 08:24	0.1	0.1	0.2
95	06/11/2009 08:25	0.1	0.1	0.2
96	06/11/2009 08:26	0.1	0.1	0.2
97	06/11/2009 08:27	0.1	0.1	0.2
98	06/11/2009 08:28	0.1	0.1	0.2
99	06/11/2009 08:29	0.1	0.1	0.2
100	06/11/2009 08:30	0.1	0.1	0.2
101	06/11/2009 08:31	0.0	0.1	0.2
102	06/11/2009 08:32	0.1	0.1	0.2
103	06/11/2009 08:33	0.0	0.1	0.2
104	06/11/2009 08:34	0.1	0.1	0.2
105	06/11/2009 08:35	0.1	0.1	0.2
106	06/11/2009 08:36	0.1	0.1	0.2
107	06/11/2009 08:37	0.1	0.1	0.2
108	06/11/2009 08:38	0.1	0.1	0.2
109	06/11/2009 08:39	0.1	0.1	0.2
110	06/11/2009 08:40	0.1	0.1	0.2
111	06/11/2009 08:41	0.1	0.2	0.7
112	06/11/2009 08:42	0.1	0.1	0.2
113	06/11/2009 08:43	0.1	0.1	0.2
114	06/11/2009 08:44	0.1	0.1	0.2
115	06/11/2009 08:45	0.1	0.1	0.2
116	06/11/2009 08:46	0.1	0.1	0.2
117	06/11/2009 08:47	0.1	0.1	0.2
118	06/11/2009 08:48	0.1	0.1	0.2
119	06/11/2009 08:49	0.1	0.1	0.2
120	06/11/2009 08:50	0.1	0.1	0.2
121	06/11/2009 08:51	0.1	0.1	0.2
122	06/11/2009 08:52	0.1	0.1	0.2
123	06/11/2009 08:53	0.1	0.1	0.2
124	06/11/2009 08:54	0.1	0.1	0.2
125	06/11/2009 08:55	0.1	0.1	0.2
126	06/11/2009 08:56	0.1	0.1	0.2
127	06/11/2009 08:57	0.1	0.2	0.3
128	06/11/2009 08:58	0.1	0.2	0.3
129	06/11/2009 08:59	0.1	0.2	0.3
130	06/11/2009 09:00	0.1	0.2	0.3
131	06/11/2009 09:01	0.2	0.2	0.3

132	06/11/2009 09:02	0.1	0.2	0.3
133	06/11/2009 09:03	0.2	0.2	0.2
134	06/11/2009 09:04	0.1	0.2	0.3
135	06/11/2009 09:05	0.1	0.2	0.3
136	06/11/2009 09:06	0.1	0.2	0.3
137	06/11/2009 09:07	0.1	0.2	0.3
138	06/11/2009 09:08	0.2	0.2	0.3
139	06/11/2009 09:09	0.1	0.2	0.3
140	06/11/2009 09:10	0.2	0.2	0.3
141	06/11/2009 09:11	0.1	0.2	0.3
142	06/11/2009 09:12	0.2	0.2	0.2
143	06/11/2009 09:13	0.2	0.2	0.3
144	06/11/2009 09:14	0.1	0.1	0.3
145	06/11/2009 09:15	0.1	0.2	0.3
146	06/11/2009 09:16	0.2	0.2	0.3
147	06/11/2009 09:17	0.2	0.2	0.3
148	06/11/2009 09:18	0.1	0.2	0.3
149	06/11/2009 09:19	0.2	0.2	0.5
150	06/11/2009 09:20	0.1	0.2	0.3
151	06/11/2009 09:21	0.1	0.2	0.3
152	06/11/2009 09:22	0.1	0.2	0.3
153	06/11/2009 09:23	0.1	0.2	0.3
154	06/11/2009 09:24	0.1	0.2	0.3
155	06/11/2009 09:25	0.2	0.2	0.3
156	06/11/2009 09:26	0.2	0.2	0.3
157	06/11/2009 09:27	0.2	0.2	0.6
158	06/11/2009 09:28	0.1	0.2	0.3
159	06/11/2009 09:29	0.2	0.3	0.7
160	06/11/2009 09:30	0.2	0.2	0.3
161	06/11/2009 09:31	0.2	0.2	0.4
162	06/11/2009 09:32	0.2	0.2	0.4
163	06/11/2009 09:33	0.2	0.3	0.5
164	06/11/2009 09:34	0.2	0.4	1.1
165	06/11/2009 09:35	0.2	0.2	0.4
166	06/11/2009 09:36	0.2	0.2	0.4
167	06/11/2009 09:37	0.2	0.2	0.4
168	06/11/2009 09:38	0.3	0.3	0.4
169	06/11/2009 09:39	0.2	0.2	0.4
170	06/11/2009 09:40	0.1	0.2	0.3
171	06/11/2009 09:41	0.2	0.3	0.5
172	06/11/2009 09:42	0.2	0.3	0.6
173	06/11/2009 09:43	0.2	0.2	0.5
174	06/11/2009 09:44	0.2	0.2	0.3
175	06/11/2009 09:45	0.2	0.2	0.4
176	06/11/2009 09:46	0.2	0.2	0.3
177	06/11/2009 09:47	0.2	0.2	0.3
178	06/11/2009 09:48	0.1	0.2	0.3
179	06/11/2009 09:49	0.2	0.2	0.6
180	06/11/2009 09:50	0.2	0.2	0.3
181	06/11/2009 09:51	0.2	0.2	0.3
182	06/11/2009 09:52	0.2	0.2	0.4
183	06/11/2009 09:53	0.2	0.2	0.3

184	06/11/2009 09:54	0.2	0.2	0.3
185	06/11/2009 09:55	0.1	0.2	0.3
186	06/11/2009 09:56	0.2	0.2	0.3
187	06/11/2009 09:57	0.2	0.2	0.3
188	06/11/2009 09:58	0.1	0.2	0.3
189	06/11/2009 09:59	0.2	0.2	0.4
190	06/11/2009 10:00	0.2	0.2	0.3
191	06/11/2009 10:01	0.2	0.2	0.3
192	06/11/2009 10:02	0.2	0.2	0.3
193	06/11/2009 10:03	0.2	0.2	0.3
194	06/11/2009 10:04	0.2	0.2	0.3
195	06/11/2009 10:05	0.2	0.2	0.3
196	06/11/2009 10:06	0.2	0.2	0.3
197	06/11/2009 10:07	0.2	0.2	0.3
198	06/11/2009 10:08	0.2	0.2	0.3
199	06/11/2009 10:09	0.2	0.2	0.3
200	06/11/2009 10:10	0.2	0.2	0.3
201	06/11/2009 10:11	0.2	0.2	0.4
202	06/11/2009 10:12	0.2	0.2	0.3
203	06/11/2009 10:13	0.2	0.2	0.3
204	06/11/2009 10:14	0.2	0.2	0.5
205	06/11/2009 10:15	0.2	0.2	0.3
206	06/11/2009 10:16	0.1	0.2	0.3
207	06/11/2009 10:17	0.2	0.3	0.6
208	06/11/2009 10:18	0.2	0.3	0.7
209	06/11/2009 10:19	0.2	0.2	0.5
210	06/11/2009 10:20	0.2	0.2	0.4
211	06/11/2009 10:21	0.2	0.2	0.3
212	06/11/2009 10:22	0.2	0.3	1.0
213	06/11/2009 10:23	0.2	0.3	1.1
214	06/11/2009 10:24	0.2	0.4	0.6
215	06/11/2009 10:25	0.2	0.3	0.6
216	06/11/2009 10:26	0.3	0.3	0.7
217	06/11/2009 10:27	0.2	0.3	1.1
218	06/11/2009 10:28	0.2	0.2	0.4
219	06/11/2009 10:29	0.2	0.2	0.3
220	06/11/2009 10:30	0.2	0.2	0.3
221	06/11/2009 10:31	0.2	0.2	0.4
222	06/11/2009 10:32	0.2	0.2	0.3
223	06/11/2009 10:33	0.1	0.2	0.3
224	06/11/2009 10:34	0.1	0.2	0.3
225	06/11/2009 10:35	0.2	0.2	0.4
226	06/11/2009 10:36	0.2	0.2	0.3
227	06/11/2009 10:37	0.1	0.2	0.3
228	06/11/2009 10:38	0.1	0.2	0.3
229	06/11/2009 10:39	0.1	0.2	0.3
230	06/11/2009 10:40	0.1	0.2	0.8
231	06/11/2009 10:41	0.2	0.5	1.1
232	06/11/2009 10:42	0.2	0.6	1.1
233	06/11/2009 10:43	0.2	0.4	0.9
234	06/11/2009 10:44	0.2	0.3	0.5
235	06/11/2009 10:45	0.2	0.2	0.3

236	06/11/2009 10:46	0.2	0.2	0.3
237	06/11/2009 10:47	0.2	0.2	0.3
238	06/11/2009 10:48	0.1	0.2	0.3
239	06/11/2009 10:49	0.1	0.2	0.3
240	06/11/2009 10:50	0.1	0.2	0.3
241	06/11/2009 10:51	0.2	0.2	0.3
242	06/11/2009 10:52	0.2	0.2	0.3
243	06/11/2009 10:53	0.1	0.2	0.3
244	06/11/2009 10:54	0.1	0.2	0.4
245	06/11/2009 10:55	0.1	0.2	0.3
246	06/11/2009 10:56	0.1	0.2	0.3
247	06/11/2009 10:57	0.1	0.2	0.3
248	06/11/2009 10:58	0.1	0.2	0.3
249	06/11/2009 10:59	0.1	0.2	0.3
250	06/11/2009 11:00	0.1	0.2	0.5
251	06/11/2009 11:01	0.1	0.2	0.3
252	06/11/2009 11:02	0.1	0.2	0.3
253	06/11/2009 11:03	0.1	0.2	0.3
254	06/11/2009 11:04	0.2	0.2	0.4
255	06/11/2009 11:05	0.2	0.3	1.0
256	06/11/2009 11:06	0.2	0.4	1.5
257	06/11/2009 11:07	0.1	0.2	0.5
258	06/11/2009 11:08	0.2	0.2	0.5
259	06/11/2009 11:09	0.1	0.2	0.3
260	06/11/2009 11:10	0.2	0.2	0.4
261	06/11/2009 11:11	0.2	0.3	0.6
262	06/11/2009 11:12	0.2	0.5	0.9
263	06/11/2009 11:13	0.2	0.2	0.7
264	06/11/2009 11:14	0.1	0.2	0.4
265	06/11/2009 11:15	0.1	0.1	0.3
266	06/11/2009 11:16	0.2	0.3	0.8
267	06/11/2009 11:17	0.1	0.2	0.3
268	06/11/2009 11:18	0.1	0.1	0.3
269	06/11/2009 11:19	0.1	0.2	0.3
270	06/11/2009 11:20	0.1	0.2	0.3
271	06/11/2009 11:21	0.2	0.3	0.6
272	06/11/2009 11:22	0.1	0.2	0.3
273	06/11/2009 11:23	0.1	0.2	0.3
274	06/11/2009 11:24	0.1	0.2	0.5
275	06/11/2009 11:25	0.1	0.2	0.6
276	06/11/2009 11:26	0.1	0.2	0.5
277	06/11/2009 11:27	0.1	0.2	0.4
278	06/11/2009 11:28	0.1	0.2	0.3
279	06/11/2009 11:29	0.0	0.1	0.3
280	06/11/2009 11:30	0.1	0.1	0.3
281	06/11/2009 11:31	0.1	0.2	0.3
282	06/11/2009 11:32	0.1	0.2	0.3
283	06/11/2009 11:33	0.1	0.2	0.3
284	06/11/2009 11:34	0.1	0.2	0.3
285	06/11/2009 11:35	0.1	0.3	0.7
286	06/11/2009 11:36	0.1	0.2	0.3
287	06/11/2009 11:37	0.1	0.3	0.7

288	06/11/2009 11:38	0.1	0.2	0.3
289	06/11/2009 11:39	0.1	0.1	0.3
290	06/11/2009 11:40	0.1	0.1	0.2
291	06/11/2009 11:41	0.1	0.1	0.3
292	06/11/2009 11:42	0.1	0.1	0.3
293	06/11/2009 11:43	0.1	0.2	1.1
294	06/11/2009 11:44	0.2	0.3	0.7
295	06/11/2009 11:45	0.2	0.2	0.4
296	06/11/2009 11:46	0.1	0.2	0.4
297	06/11/2009 11:47	0.1	0.2	0.3
298	06/11/2009 11:48	0.1	0.2	0.5
299	06/11/2009 11:49	0.1	0.2	0.3
300	06/11/2009 11:50	0.1	0.3	1.4
301	06/11/2009 11:51	0.2	0.4	1.1
302	06/11/2009 11:52	0.2	0.2	0.3
303	06/11/2009 11:53	0.1	0.2	0.3
304	06/11/2009 11:54	0.2	0.3	0.6
305	06/11/2009 11:55	0.1	0.3	0.7
306	06/11/2009 11:56	0.2	0.2	0.6
307	06/11/2009 11:57	0.1	0.1	0.2
308	06/11/2009 11:58	0.1	0.2	0.4
309	06/11/2009 11:59	0.1	0.2	0.7
310	06/11/2009 12:00	0.1	0.3	0.9
311	06/11/2009 12:01	0.1	0.1	0.3
312	06/11/2009 12:02	0.1	0.1	0.3
313	06/11/2009 12:03	0.1	0.1	0.3
314	06/11/2009 12:04	0.1	0.2	0.5
315	06/11/2009 12:05	0.2	0.2	0.7
316	06/11/2009 12:06	0.1	0.2	0.4
317	06/11/2009 12:07	0.1	0.2	0.3
318	06/11/2009 12:08	0.1	0.1	0.3
319	06/11/2009 12:09	0.1	0.2	0.3
320	06/11/2009 12:10	0.1	0.1	0.3
321	06/11/2009 12:11	0.1	0.2	0.3
322	06/11/2009 12:12	0.1	0.1	0.3
323	06/11/2009 12:13	0.1	0.1	0.3
324	06/11/2009 12:14	0.1	0.1	0.3
325	06/11/2009 12:15	0.1	0.1	0.3
326	06/11/2009 12:16	0.1	0.1	0.3
327	06/11/2009 12:17	0.1	0.1	0.2
328	06/11/2009 12:18	0.1	0.1	0.3
329	06/11/2009 12:19	0.0	0.1	0.3
330	06/11/2009 12:20	0.1	0.1	0.3
331	06/11/2009 12:21	0.1	0.1	0.2
332	06/11/2009 12:22	0.1	0.1	0.2
333	06/11/2009 12:23	0.1	0.1	0.2
334	06/11/2009 12:24	0.1	0.1	0.2
335	06/11/2009 12:25	0.1	0.1	0.2
336	06/11/2009 12:26	0.1	0.1	0.2
337	06/11/2009 12:27	0.1	0.1	0.3
338	06/11/2009 12:28	0.1	0.1	0.2
339	06/11/2009 12:29	0.1	0.2	0.6

340	06/11/2009 12:30	0.1	0.2	0.3
341	06/11/2009 12:31	0.1	0.1	0.2
342	06/11/2009 12:32	0.1	0.1	0.2
343	06/11/2009 12:33	0.1	0.1	0.2
344	06/11/2009 12:34	0.1	0.1	0.3
345	06/11/2009 12:35	0.1	0.1	0.3
346	06/11/2009 12:36	0.1	0.1	0.2
347	06/11/2009 12:37	0.0	0.1	0.3
348	06/11/2009 12:38	0.1	0.1	0.2
349	06/11/2009 12:39	0.1	0.2	1.1
350	06/11/2009 12:40	0.2	0.5	1.6
351	06/11/2009 12:41	0.2	0.4	1.3
352	06/11/2009 12:42	0.2	0.6	2.6
353	06/11/2009 12:43	0.2	0.2	0.4
354	06/11/2009 12:44	0.1	0.1	0.3
355	06/11/2009 12:45	0.1	0.1	0.3
356	06/11/2009 12:46	0.1	0.1	0.2
357	06/11/2009 12:47	0.1	0.1	0.2
358	06/11/2009 12:48	0.1	0.1	0.2
359	06/11/2009 12:49	0.1	0.1	0.2
360	06/11/2009 12:50	0.1	0.1	0.3
361	06/11/2009 12:51	0.1	0.1	0.3
362	06/11/2009 12:52	0.1	0.1	0.3
363	06/11/2009 12:53	0.1	0.1	0.2
364	06/11/2009 12:54	0.1	0.1	0.3
365	06/11/2009 12:55	0.0	0.1	0.2
366	06/11/2009 12:56	0.1	0.1	0.2
367	06/11/2009 12:57	0.1	0.1	0.2
368	06/11/2009 12:58	0.1	0.1	0.3
369	06/11/2009 12:59	0.1	0.1	0.2
370	06/11/2009 13:00	0.1	0.1	0.2
371	06/11/2009 13:01	0.1	0.1	0.2
372	06/11/2009 13:02	0.1	0.1	0.2
373	06/11/2009 13:03	0.1	0.1	0.2
374	06/11/2009 13:04	0.1	0.1	0.2
375	06/11/2009 13:05	0.1	0.1	0.2
376	06/11/2009 13:06	0.1	0.1	0.2
377	06/11/2009 13:07	0.0	0.2	1.8
378	06/11/2009 13:08	0.1	0.3	0.9
379	06/11/2009 13:09	0.0	0.1	0.2
380	06/11/2009 13:10	0.1	0.5	1.4
381	06/11/2009 13:11	0.1	0.1	0.3
382	06/11/2009 13:12	0.1	0.1	0.2
383	06/11/2009 13:13	0.1	0.1	0.2
384	06/11/2009 13:14	0.0	0.1	0.2
385	06/11/2009 13:15	0.0	0.1	0.2
386	06/11/2009 13:16	0.0	0.1	0.2
387	06/11/2009 13:17	0.1	0.1	0.2
388	06/11/2009 13:18	0.1	0.1	0.2
389	06/11/2009 13:19	0.1	0.1	0.2
390	06/11/2009 13:20	0.1	0.3	1.3
391	06/11/2009 13:21	0.1	0.1	0.3



392	06/11/2009 13:22	0.0	0.1	0.4
393	06/11/2009 13:23	0.0	0.1	0.2
394	06/11/2009 13:24	0.0	0.1	0.2
395	06/11/2009 13:25	0.1	0.1	0.2
396	06/11/2009 13:26	0.0	0.1	0.2
397	06/11/2009 13:27	0.0	0.1	0.2
398	06/11/2009 13:28	0.0	0.1	0.2
399	06/11/2009 13:29	0.0	0.1	0.2
400	06/11/2009 13:30	0.0	0.1	0.2
401	06/11/2009 13:31	0.0	0.0	0.1
402	06/11/2009 13:32	0.0	0.1	0.2
403	06/11/2009 13:33	0.0	0.0	0.2
404	06/11/2009 13:34	0.0	0.0	0.1
405	06/11/2009 13:35	0.0	0.0	0.1
406	06/11/2009 13:36	0.0	0.0	0.1
407	06/11/2009 13:37	0.0	0.0	0.2
408	06/11/2009 13:38	0.0	0.0	0.1
409	06/11/2009 13:39	0.0	0.0	0.2
410	06/11/2009 13:40	0.0	0.0	0.1
411	06/11/2009 13:41	0.0	0.0	0.1
412	06/11/2009 13:42	0.0	0.0	0.2
413	06/11/2009 13:43	0.0	0.0	0.1
414	06/11/2009 13:44	0.0	0.0	0.2
415	06/11/2009 13:45	0.0	0.1	0.2
416	06/11/2009 13:46	0.1	0.1	0.2
417	06/11/2009 13:47	0.1	0.1	0.3
418	06/11/2009 13:48	0.1	0.1	0.3
419	06/11/2009 13:49	0.0	0.1	0.2
420	06/11/2009 13:50	0.0	0.1	0.3
421	06/11/2009 13:51	0.1	0.1	0.3
422	06/11/2009 13:52	0.1	0.1	0.3
423	06/11/2009 13:53	0.2	0.2	0.6
424	06/11/2009 13:54	0.1	0.2	0.4
425	06/11/2009 13:55	0.1	0.2	0.5
426	06/11/2009 13:56	0.1	0.1	0.7
427	06/11/2009 13:57	0.1	0.2	0.6
428	06/11/2009 13:58	0.1	0.2	0.6
429	06/11/2009 13:59	0.1	0.2	0.4
430	06/11/2009 14:00	0.1	0.3	0.5
431	06/11/2009 14:01	0.1	0.1	0.3
432	06/11/2009 14:02	0.1	0.4	1.2
433	06/11/2009 14:03	0.1	0.1	0.4
434	06/11/2009 14:04	0.0	0.1	0.2
435	06/11/2009 14:05	0.0	0.1	0.3
436	06/11/2009 14:06	0.1	0.1	0.3
437	06/11/2009 14:07	0.1	0.1	0.3
438	06/11/2009 14:08	0.1	0.1	0.2
439	06/11/2009 14:09	0.1	0.2	0.6
440	06/11/2009 14:10	0.1	0.2	0.6
441	06/11/2009 14:11	0.1	0.2	0.4
442	06/11/2009 14:12	0.1	0.2	0.5
443	06/11/2009 14:13	0.0	0.1	0.3

444	06/11/2009 14:14	0.0	0.1	0.2
445	06/11/2009 14:15	0.0	0.1	0.2
446	06/11/2009 14:16	0.0	0.0	0.1
447	06/11/2009 14:17	0.0	0.1	0.4
448	06/11/2009 14:18	0.0	0.0	0.2
449	06/11/2009 14:19	0.0	0.2	0.7
450	06/11/2009 14:20	0.2	0.2	0.4
451	06/11/2009 14:21	0.1	0.3	1.1
452	06/11/2009 14:22	0.1	0.2	0.5
453	06/11/2009 14:23	0.1	0.1	0.3
454	06/11/2009 14:24	0.0	0.1	0.2
455	06/11/2009 14:25	0.1	0.1	0.2
456	06/11/2009 14:26	0.0	0.1	0.2
457	06/11/2009 14:27	0.1	0.1	0.2
458	06/11/2009 14:28	0.1	0.1	0.2
459	06/11/2009 14:29	0.1	0.1	0.2
460	06/11/2009 14:30	0.1	0.1	0.2
461	06/11/2009 14:31	0.1	0.1	0.3
462	06/11/2009 14:32	0.1	0.1	0.2
463	06/11/2009 14:33	0.1	0.1	0.4
464	06/11/2009 14:34	0.1	0.3	0.7
465	06/11/2009 14:35	0.1	0.3	0.8
466	06/11/2009 14:36	0.0	0.1	0.4
467	06/11/2009 14:37	0.1	0.1	0.2
468	06/11/2009 14:38	0.0	0.1	0.2
469	06/11/2009 14:39	0.0	0.1	0.2
470	06/11/2009 14:40	0.1	0.1	0.2
471	06/11/2009 14:41	0.1	0.1	0.4
472	06/11/2009 14:42	0.1	0.1	0.2
473	06/11/2009 14:43	0.1	0.1	0.2
474	06/11/2009 14:44	0.1	0.1	0.2
475	06/11/2009 14:45	0.0	0.1	0.2
476	06/11/2009 14:46	0.0	0.1	0.2
477	06/11/2009 14:47	0.1	0.1	0.2
478	06/11/2009 14:48	0.1	0.1	0.2
479	06/11/2009 14:49	0.1	0.1	0.3
480	06/11/2009 14:50	0.1	0.1	0.2
481	06/11/2009 14:51	0.1	0.1	0.4
482	06/11/2009 14:52	0.0	0.1	0.2
483	06/11/2009 14:53	0.1	0.7	2.2
484	06/11/2009 14:54	0.1	0.3	0.8
485	06/11/2009 14:55	0.1	0.1	0.3
486	06/11/2009 14:56	0.0	0.1	0.2
487	06/11/2009 14:57	0.0	0.0	0.1
488	06/11/2009 14:58	0.0	0.1	0.2
489	06/11/2009 14:59	0.1	0.1	0.2
490	06/11/2009 15:00	0.1	0.1	0.2
491	06/11/2009 15:01	0.1	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 491 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/11/2009 06:51      0.0      0.0      0.0
2 06/11/2009 06:52      0.0      0.0      0.0
3 06/11/2009 06:53      0.0      0.0      0.0
4 06/11/2009 06:54      0.0      0.0      0.0
5 06/11/2009 06:55      0.0      0.0      0.0
6 06/11/2009 06:56      0.0      0.0      0.0
7 06/11/2009 06:57      0.0      0.0      0.0
8 06/11/2009 06:58      0.0      0.0      0.0
9 06/11/2009 06:59      0.0      0.0      0.0
10 06/11/2009 07:00      0.0      0.0      0.0
11 06/11/2009 07:01      0.0      0.0      0.0
12 06/11/2009 07:02      0.0      0.0      0.0
13 06/11/2009 07:03      0.0      0.0      0.0
14 06/11/2009 07:04      0.0      0.0      0.0
15 06/11/2009 07:05      0.0      0.0      0.0
16 06/11/2009 07:06      0.0      0.0      0.0
17 06/11/2009 07:07      0.0      0.0      0.0
18 06/11/2009 07:08      0.0      0.0      0.0
19 06/11/2009 07:09      0.0      0.0      0.0
20 06/11/2009 07:10      0.0      0.0      0.4
21 06/11/2009 07:11      0.0      0.0      0.0
22 06/11/2009 07:12      0.0      0.0      0.0
23 06/11/2009 07:13      0.0      0.0      0.0
24 06/11/2009 07:14      0.0      0.0      0.0
25 06/11/2009 07:15      0.0      0.0      0.0
26 06/11/2009 07:16      0.0      0.0      0.0
27 06/11/2009 07:17      0.0      0.0      0.0
28 06/11/2009 07:18      0.0      0.0      0.0
29 06/11/2009 07:19      0.0      0.0      0.0
30 06/11/2009 07:20      0.0      0.0      0.0
31 06/11/2009 07:21      0.0      0.0      0.0
32 06/11/2009 07:22      0.0      0.0      0.0
33 06/11/2009 07:23      0.0      0.0      0.0
34 06/11/2009 07:24      0.0      0.0      0.0
35 06/11/2009 07:25      0.0      0.0      0.0
36 06/11/2009 07:26      0.0      0.0      0.2
37 06/11/2009 07:27      0.0      0.0      0.1
38 06/11/2009 07:28      0.0      0.0      0.2
39 06/11/2009 07:29      0.0      0.0      0.1
40 06/11/2009 07:30      0.0      0.0      0.1
41 06/11/2009 07:31      0.0      0.0      0.5
```

42	06/11/2009 07:32	0.0	0.0	1.0
43	06/11/2009 07:33	0.0	0.0	0.0
44	06/11/2009 07:34	0.0	0.0	0.1
45	06/11/2009 07:35	0.0	0.0	0.2
46	06/11/2009 07:36	0.0	0.0	0.0
47	06/11/2009 07:37	0.0	0.0	0.5
48	06/11/2009 07:38	0.0	0.0	0.2
49	06/11/2009 07:39	0.0	0.0	0.9
50	06/11/2009 07:40	0.0	0.0	1.3
51	06/11/2009 07:41	0.0	0.0	0.0
52	06/11/2009 07:42	0.0	0.0	0.1
53	06/11/2009 07:43	0.0	0.0	0.0
54	06/11/2009 07:44	0.0	0.0	0.1
55	06/11/2009 07:45	0.0	0.0	0.1
56	06/11/2009 07:46	0.0	0.0	0.1
57	06/11/2009 07:47	0.0	0.0	0.4
58	06/11/2009 07:48	0.0	0.0	0.3
59	06/11/2009 07:49	0.0	0.0	0.1
60	06/11/2009 07:50	0.0	0.0	0.1
61	06/11/2009 07:51	0.0	0.0	0.1
62	06/11/2009 07:52	0.0	0.0	0.1
63	06/11/2009 07:53	0.0	0.0	0.1
64	06/11/2009 07:54	0.0	0.0	0.2
65	06/11/2009 07:55	0.0	0.0	0.1
66	06/11/2009 07:56	0.0	0.0	0.1
67	06/11/2009 07:57	0.0	0.1	0.7
68	06/11/2009 07:58	0.0	0.1	0.6
69	06/11/2009 07:59	0.0	0.0	0.1
70	06/11/2009 08:00	0.0	0.1	0.2
71	06/11/2009 08:01	0.0	0.0	0.1
72	06/11/2009 08:02	0.0	0.0	0.2
73	06/11/2009 08:03	0.0	0.0	0.1
74	06/11/2009 08:04	0.0	0.0	0.1
75	06/11/2009 08:05	0.0	0.0	0.1
76	06/11/2009 08:06	0.0	0.0	0.1
77	06/11/2009 08:07	0.0	0.0	0.1
78	06/11/2009 08:08	0.0	0.0	0.1
79	06/11/2009 08:09	0.0	0.1	1.0
80	06/11/2009 08:10	0.0	0.0	0.1
81	06/11/2009 08:11	0.0	0.0	0.1
82	06/11/2009 08:12	0.0	0.0	0.1
83	06/11/2009 08:13	0.0	0.0	0.1
84	06/11/2009 08:14	0.0	0.0	0.1
85	06/11/2009 08:15	0.0	0.0	0.1
86	06/11/2009 08:16	0.1	0.1	0.1
87	06/11/2009 08:17	0.1	0.1	0.1
88	06/11/2009 08:18	0.1	0.1	0.1
89	06/11/2009 08:19	0.1	0.1	0.1
90	06/11/2009 08:20	0.1	0.1	0.1
91	06/11/2009 08:21	0.1	0.1	0.1
92	06/11/2009 08:22	0.1	0.1	0.1
93	06/11/2009 08:23	0.1	0.1	0.2

94	06/11/2009 08:24	0.1	0.1	0.2
95	06/11/2009 08:25	0.1	0.1	0.2
96	06/11/2009 08:26	0.1	0.1	0.2
97	06/11/2009 08:27	0.1	0.1	0.2
98	06/11/2009 08:28	0.1	0.1	0.2
99	06/11/2009 08:29	0.1	0.1	0.2
100	06/11/2009 08:30	0.1	0.1	0.2
101	06/11/2009 08:31	0.0	0.1	0.2
102	06/11/2009 08:32	0.1	0.1	0.2
103	06/11/2009 08:33	0.0	0.1	0.2
104	06/11/2009 08:34	0.1	0.1	0.2
105	06/11/2009 08:35	0.1	0.1	0.2
106	06/11/2009 08:36	0.1	0.1	0.2
107	06/11/2009 08:37	0.1	0.1	0.2
108	06/11/2009 08:38	0.1	0.1	0.2
109	06/11/2009 08:39	0.1	0.1	0.2
110	06/11/2009 08:40	0.1	0.1	0.2
111	06/11/2009 08:41	0.1	0.2	0.7
112	06/11/2009 08:42	0.1	0.1	0.2
113	06/11/2009 08:43	0.1	0.1	0.2
114	06/11/2009 08:44	0.1	0.1	0.2
115	06/11/2009 08:45	0.1	0.1	0.2
116	06/11/2009 08:46	0.1	0.1	0.2
117	06/11/2009 08:47	0.1	0.1	0.2
118	06/11/2009 08:48	0.1	0.1	0.2
119	06/11/2009 08:49	0.1	0.1	0.2
120	06/11/2009 08:50	0.1	0.1	0.2
121	06/11/2009 08:51	0.1	0.1	0.2
122	06/11/2009 08:52	0.1	0.1	0.2
123	06/11/2009 08:53	0.1	0.1	0.2
124	06/11/2009 08:54	0.1	0.1	0.2
125	06/11/2009 08:55	0.1	0.1	0.2
126	06/11/2009 08:56	0.1	0.1	0.2
127	06/11/2009 08:57	0.1	0.2	0.3
128	06/11/2009 08:58	0.1	0.2	0.3
129	06/11/2009 08:59	0.1	0.2	0.3
130	06/11/2009 09:00	0.1	0.2	0.3
131	06/11/2009 09:01	0.2	0.2	0.3
132	06/11/2009 09:02	0.1	0.2	0.3
133	06/11/2009 09:03	0.2	0.2	0.2
134	06/11/2009 09:04	0.1	0.2	0.3
135	06/11/2009 09:05	0.1	0.2	0.3
136	06/11/2009 09:06	0.1	0.2	0.3
137	06/11/2009 09:07	0.1	0.2	0.3
138	06/11/2009 09:08	0.2	0.2	0.3
139	06/11/2009 09:09	0.1	0.2	0.3
140	06/11/2009 09:10	0.2	0.2	0.3
141	06/11/2009 09:11	0.1	0.2	0.3
142	06/11/2009 09:12	0.2	0.2	0.2
143	06/11/2009 09:13	0.2	0.2	0.3
144	06/11/2009 09:14	0.1	0.1	0.3
145	06/11/2009 09:15	0.1	0.2	0.3

146	06/11/2009 09:16	0.2	0.2	0.3
147	06/11/2009 09:17	0.2	0.2	0.3
148	06/11/2009 09:18	0.1	0.2	0.3
149	06/11/2009 09:19	0.2	0.2	0.5
150	06/11/2009 09:20	0.1	0.2	0.3
151	06/11/2009 09:21	0.1	0.2	0.3
152	06/11/2009 09:22	0.1	0.2	0.3
153	06/11/2009 09:23	0.1	0.2	0.3
154	06/11/2009 09:24	0.1	0.2	0.3
155	06/11/2009 09:25	0.2	0.2	0.3
156	06/11/2009 09:26	0.2	0.2	0.3
157	06/11/2009 09:27	0.2	0.2	0.6
158	06/11/2009 09:28	0.1	0.2	0.3
159	06/11/2009 09:29	0.2	0.3	0.7
160	06/11/2009 09:30	0.2	0.2	0.3
161	06/11/2009 09:31	0.2	0.2	0.4
162	06/11/2009 09:32	0.2	0.2	0.4
163	06/11/2009 09:33	0.2	0.3	0.5
164	06/11/2009 09:34	0.2	0.4	1.1
165	06/11/2009 09:35	0.2	0.2	0.4
166	06/11/2009 09:36	0.2	0.2	0.4
167	06/11/2009 09:37	0.2	0.2	0.4
168	06/11/2009 09:38	0.3	0.3	0.4
169	06/11/2009 09:39	0.2	0.2	0.4
170	06/11/2009 09:40	0.1	0.2	0.3
171	06/11/2009 09:41	0.2	0.3	0.5
172	06/11/2009 09:42	0.2	0.3	0.6
173	06/11/2009 09:43	0.2	0.2	0.5
174	06/11/2009 09:44	0.2	0.2	0.3
175	06/11/2009 09:45	0.2	0.2	0.4
176	06/11/2009 09:46	0.2	0.2	0.3
177	06/11/2009 09:47	0.2	0.2	0.3
178	06/11/2009 09:48	0.1	0.2	0.3
179	06/11/2009 09:49	0.2	0.2	0.6
180	06/11/2009 09:50	0.2	0.2	0.3
181	06/11/2009 09:51	0.2	0.2	0.3
182	06/11/2009 09:52	0.2	0.2	0.4
183	06/11/2009 09:53	0.2	0.2	0.3
184	06/11/2009 09:54	0.2	0.2	0.3
185	06/11/2009 09:55	0.1	0.2	0.3
186	06/11/2009 09:56	0.2	0.2	0.3
187	06/11/2009 09:57	0.2	0.2	0.3
188	06/11/2009 09:58	0.1	0.2	0.3
189	06/11/2009 09:59	0.2	0.2	0.4
190	06/11/2009 10:00	0.2	0.2	0.3
191	06/11/2009 10:01	0.2	0.2	0.3
192	06/11/2009 10:02	0.2	0.2	0.3
193	06/11/2009 10:03	0.2	0.2	0.3
194	06/11/2009 10:04	0.2	0.2	0.3
195	06/11/2009 10:05	0.2	0.2	0.3
196	06/11/2009 10:06	0.2	0.2	0.3
197	06/11/2009 10:07	0.2	0.2	0.3

198	06/11/2009 10:08	0.2	0.2	0.3
199	06/11/2009 10:09	0.2	0.2	0.3
200	06/11/2009 10:10	0.2	0.2	0.3
201	06/11/2009 10:11	0.2	0.2	0.4
202	06/11/2009 10:12	0.2	0.2	0.3
203	06/11/2009 10:13	0.2	0.2	0.3
204	06/11/2009 10:14	0.2	0.2	0.5
205	06/11/2009 10:15	0.2	0.2	0.3
206	06/11/2009 10:16	0.1	0.2	0.3
207	06/11/2009 10:17	0.2	0.3	0.6
208	06/11/2009 10:18	0.2	0.3	0.7
209	06/11/2009 10:19	0.2	0.2	0.5
210	06/11/2009 10:20	0.2	0.2	0.4
211	06/11/2009 10:21	0.2	0.2	0.3
212	06/11/2009 10:22	0.2	0.3	1.0
213	06/11/2009 10:23	0.2	0.3	1.1
214	06/11/2009 10:24	0.2	0.4	0.6
215	06/11/2009 10:25	0.2	0.3	0.6
216	06/11/2009 10:26	0.3	0.3	0.7
217	06/11/2009 10:27	0.2	0.3	1.1
218	06/11/2009 10:28	0.2	0.2	0.4
219	06/11/2009 10:29	0.2	0.2	0.3
220	06/11/2009 10:30	0.2	0.2	0.3
221	06/11/2009 10:31	0.2	0.2	0.4
222	06/11/2009 10:32	0.2	0.2	0.3
223	06/11/2009 10:33	0.1	0.2	0.3
224	06/11/2009 10:34	0.1	0.2	0.3
225	06/11/2009 10:35	0.2	0.2	0.4
226	06/11/2009 10:36	0.2	0.2	0.3
227	06/11/2009 10:37	0.1	0.2	0.3
228	06/11/2009 10:38	0.1	0.2	0.3
229	06/11/2009 10:39	0.1	0.2	0.3
230	06/11/2009 10:40	0.1	0.2	0.8
231	06/11/2009 10:41	0.2	0.5	1.1
232	06/11/2009 10:42	0.2	0.6	1.1
233	06/11/2009 10:43	0.2	0.4	0.9
234	06/11/2009 10:44	0.2	0.3	0.5
235	06/11/2009 10:45	0.2	0.2	0.3
236	06/11/2009 10:46	0.2	0.2	0.3
237	06/11/2009 10:47	0.2	0.2	0.3
238	06/11/2009 10:48	0.1	0.2	0.3
239	06/11/2009 10:49	0.1	0.2	0.3
240	06/11/2009 10:50	0.1	0.2	0.3
241	06/11/2009 10:51	0.2	0.2	0.3
242	06/11/2009 10:52	0.2	0.2	0.3
243	06/11/2009 10:53	0.1	0.2	0.3
244	06/11/2009 10:54	0.1	0.2	0.4
245	06/11/2009 10:55	0.1	0.2	0.3
246	06/11/2009 10:56	0.1	0.2	0.3
247	06/11/2009 10:57	0.1	0.2	0.3
248	06/11/2009 10:58	0.1	0.2	0.3
249	06/11/2009 10:59	0.1	0.2	0.3

250	06/11/2009 11:00	0.1	0.2	0.5
251	06/11/2009 11:01	0.1	0.2	0.3
252	06/11/2009 11:02	0.1	0.2	0.3
253	06/11/2009 11:03	0.1	0.2	0.3
254	06/11/2009 11:04	0.2	0.2	0.4
255	06/11/2009 11:05	0.2	0.3	1.0
256	06/11/2009 11:06	0.2	0.4	1.5
257	06/11/2009 11:07	0.1	0.2	0.5
258	06/11/2009 11:08	0.2	0.2	0.5
259	06/11/2009 11:09	0.1	0.2	0.3
260	06/11/2009 11:10	0.2	0.2	0.4
261	06/11/2009 11:11	0.2	0.3	0.6
262	06/11/2009 11:12	0.2	0.5	0.9
263	06/11/2009 11:13	0.2	0.2	0.7
264	06/11/2009 11:14	0.1	0.2	0.4
265	06/11/2009 11:15	0.1	0.1	0.3
266	06/11/2009 11:16	0.2	0.3	0.8
267	06/11/2009 11:17	0.1	0.2	0.3
268	06/11/2009 11:18	0.1	0.1	0.3
269	06/11/2009 11:19	0.1	0.2	0.3
270	06/11/2009 11:20	0.1	0.2	0.3
271	06/11/2009 11:21	0.2	0.3	0.6
272	06/11/2009 11:22	0.1	0.2	0.3
273	06/11/2009 11:23	0.1	0.2	0.3
274	06/11/2009 11:24	0.1	0.2	0.5
275	06/11/2009 11:25	0.1	0.2	0.6
276	06/11/2009 11:26	0.1	0.2	0.5
277	06/11/2009 11:27	0.1	0.2	0.4
278	06/11/2009 11:28	0.1	0.2	0.3
279	06/11/2009 11:29	0.0	0.1	0.3
280	06/11/2009 11:30	0.1	0.1	0.3
281	06/11/2009 11:31	0.1	0.2	0.3
282	06/11/2009 11:32	0.1	0.2	0.3
283	06/11/2009 11:33	0.1	0.2	0.3
284	06/11/2009 11:34	0.1	0.2	0.3
285	06/11/2009 11:35	0.1	0.3	0.7
286	06/11/2009 11:36	0.1	0.2	0.3
287	06/11/2009 11:37	0.1	0.3	0.7
288	06/11/2009 11:38	0.1	0.2	0.3
289	06/11/2009 11:39	0.1	0.1	0.3
290	06/11/2009 11:40	0.1	0.1	0.2
291	06/11/2009 11:41	0.1	0.1	0.3
292	06/11/2009 11:42	0.1	0.1	0.3
293	06/11/2009 11:43	0.1	0.2	1.1
294	06/11/2009 11:44	0.2	0.3	0.7
295	06/11/2009 11:45	0.2	0.2	0.4
296	06/11/2009 11:46	0.1	0.2	0.4
297	06/11/2009 11:47	0.1	0.2	0.3
298	06/11/2009 11:48	0.1	0.2	0.5
299	06/11/2009 11:49	0.1	0.2	0.3
300	06/11/2009 11:50	0.1	0.3	1.4
301	06/11/2009 11:51	0.2	0.4	1.1



302	06/11/2009 11:52	0.2	0.2	0.3
303	06/11/2009 11:53	0.1	0.2	0.3
304	06/11/2009 11:54	0.2	0.3	0.6
305	06/11/2009 11:55	0.1	0.3	0.7
306	06/11/2009 11:56	0.2	0.2	0.6
307	06/11/2009 11:57	0.1	0.1	0.2
308	06/11/2009 11:58	0.1	0.2	0.4
309	06/11/2009 11:59	0.1	0.2	0.7
310	06/11/2009 12:00	0.1	0.3	0.9
311	06/11/2009 12:01	0.1	0.1	0.3
312	06/11/2009 12:02	0.1	0.1	0.3
313	06/11/2009 12:03	0.1	0.1	0.3
314	06/11/2009 12:04	0.1	0.2	0.5
315	06/11/2009 12:05	0.2	0.2	0.7
316	06/11/2009 12:06	0.1	0.2	0.4
317	06/11/2009 12:07	0.1	0.2	0.3
318	06/11/2009 12:08	0.1	0.1	0.3
319	06/11/2009 12:09	0.1	0.2	0.3
320	06/11/2009 12:10	0.1	0.1	0.3
321	06/11/2009 12:11	0.1	0.2	0.3
322	06/11/2009 12:12	0.1	0.1	0.3
323	06/11/2009 12:13	0.1	0.1	0.3
324	06/11/2009 12:14	0.1	0.1	0.3
325	06/11/2009 12:15	0.1	0.1	0.3
326	06/11/2009 12:16	0.1	0.1	0.3
327	06/11/2009 12:17	0.1	0.1	0.2
328	06/11/2009 12:18	0.1	0.1	0.3
329	06/11/2009 12:19	0.0	0.1	0.3
330	06/11/2009 12:20	0.1	0.1	0.3
331	06/11/2009 12:21	0.1	0.1	0.2
332	06/11/2009 12:22	0.1	0.1	0.2
333	06/11/2009 12:23	0.1	0.1	0.2
334	06/11/2009 12:24	0.1	0.1	0.2
335	06/11/2009 12:25	0.1	0.1	0.2
336	06/11/2009 12:26	0.1	0.1	0.2
337	06/11/2009 12:27	0.1	0.1	0.3
338	06/11/2009 12:28	0.1	0.1	0.2
339	06/11/2009 12:29	0.1	0.2	0.6
340	06/11/2009 12:30	0.1	0.2	0.3
341	06/11/2009 12:31	0.1	0.1	0.2
342	06/11/2009 12:32	0.1	0.1	0.2
343	06/11/2009 12:33	0.1	0.1	0.2
344	06/11/2009 12:34	0.1	0.1	0.3
345	06/11/2009 12:35	0.1	0.1	0.3
346	06/11/2009 12:36	0.1	0.1	0.2
347	06/11/2009 12:37	0.0	0.1	0.3
348	06/11/2009 12:38	0.1	0.1	0.2
349	06/11/2009 12:39	0.1	0.2	1.1
350	06/11/2009 12:40	0.2	0.5	1.6
351	06/11/2009 12:41	0.2	0.4	1.3
352	06/11/2009 12:42	0.2	0.6	2.6
353	06/11/2009 12:43	0.2	0.2	0.4

354	06/11/2009 12:44	0.1	0.1	0.3
355	06/11/2009 12:45	0.1	0.1	0.3
356	06/11/2009 12:46	0.1	0.1	0.2
357	06/11/2009 12:47	0.1	0.1	0.2
358	06/11/2009 12:48	0.1	0.1	0.2
359	06/11/2009 12:49	0.1	0.1	0.2
360	06/11/2009 12:50	0.1	0.1	0.3
361	06/11/2009 12:51	0.1	0.1	0.3
362	06/11/2009 12:52	0.1	0.1	0.3
363	06/11/2009 12:53	0.1	0.1	0.2
364	06/11/2009 12:54	0.1	0.1	0.3
365	06/11/2009 12:55	0.0	0.1	0.2
366	06/11/2009 12:56	0.1	0.1	0.2
367	06/11/2009 12:57	0.1	0.1	0.2
368	06/11/2009 12:58	0.1	0.1	0.3
369	06/11/2009 12:59	0.1	0.1	0.2
370	06/11/2009 13:00	0.1	0.1	0.2
371	06/11/2009 13:01	0.1	0.1	0.2
372	06/11/2009 13:02	0.1	0.1	0.2
373	06/11/2009 13:03	0.1	0.1	0.2
374	06/11/2009 13:04	0.1	0.1	0.2
375	06/11/2009 13:05	0.1	0.1	0.2
376	06/11/2009 13:06	0.1	0.1	0.2
377	06/11/2009 13:07	0.0	0.2	1.8
378	06/11/2009 13:08	0.1	0.3	0.9
379	06/11/2009 13:09	0.0	0.1	0.2
380	06/11/2009 13:10	0.1	0.5	1.4
381	06/11/2009 13:11	0.1	0.1	0.3
382	06/11/2009 13:12	0.1	0.1	0.2
383	06/11/2009 13:13	0.1	0.1	0.2
384	06/11/2009 13:14	0.0	0.1	0.2
385	06/11/2009 13:15	0.0	0.1	0.2
386	06/11/2009 13:16	0.0	0.1	0.2
387	06/11/2009 13:17	0.1	0.1	0.2
388	06/11/2009 13:18	0.1	0.1	0.2
389	06/11/2009 13:19	0.1	0.1	0.2
390	06/11/2009 13:20	0.1	0.3	1.3
391	06/11/2009 13:21	0.1	0.1	0.3
392	06/11/2009 13:22	0.0	0.1	0.4
393	06/11/2009 13:23	0.0	0.1	0.2
394	06/11/2009 13:24	0.0	0.1	0.2
395	06/11/2009 13:25	0.1	0.1	0.2
396	06/11/2009 13:26	0.0	0.1	0.2
397	06/11/2009 13:27	0.0	0.1	0.2
398	06/11/2009 13:28	0.0	0.1	0.2
399	06/11/2009 13:29	0.0	0.1	0.2
400	06/11/2009 13:30	0.0	0.1	0.2
401	06/11/2009 13:31	0.0	0.0	0.1
402	06/11/2009 13:32	0.0	0.1	0.2
403	06/11/2009 13:33	0.0	0.0	0.2
404	06/11/2009 13:34	0.0	0.0	0.1
405	06/11/2009 13:35	0.0	0.0	0.1

406	06/11/2009 13:36	0.0	0.0	0.1
407	06/11/2009 13:37	0.0	0.0	0.2
408	06/11/2009 13:38	0.0	0.0	0.1
409	06/11/2009 13:39	0.0	0.0	0.2
410	06/11/2009 13:40	0.0	0.0	0.1
411	06/11/2009 13:41	0.0	0.0	0.1
412	06/11/2009 13:42	0.0	0.0	0.2
413	06/11/2009 13:43	0.0	0.0	0.1
414	06/11/2009 13:44	0.0	0.0	0.2
415	06/11/2009 13:45	0.0	0.1	0.2
416	06/11/2009 13:46	0.1	0.1	0.2
417	06/11/2009 13:47	0.1	0.1	0.3
418	06/11/2009 13:48	0.1	0.1	0.3
419	06/11/2009 13:49	0.0	0.1	0.2
420	06/11/2009 13:50	0.0	0.1	0.3
421	06/11/2009 13:51	0.1	0.1	0.3
422	06/11/2009 13:52	0.1	0.1	0.3
423	06/11/2009 13:53	0.2	0.2	0.6
424	06/11/2009 13:54	0.1	0.2	0.4
425	06/11/2009 13:55	0.1	0.2	0.5
426	06/11/2009 13:56	0.1	0.1	0.7
427	06/11/2009 13:57	0.1	0.2	0.6
428	06/11/2009 13:58	0.1	0.2	0.6
429	06/11/2009 13:59	0.1	0.2	0.4
430	06/11/2009 14:00	0.1	0.3	0.5
431	06/11/2009 14:01	0.1	0.1	0.3
432	06/11/2009 14:02	0.1	0.4	1.2
433	06/11/2009 14:03	0.1	0.1	0.4
434	06/11/2009 14:04	0.0	0.1	0.2
435	06/11/2009 14:05	0.0	0.1	0.3
436	06/11/2009 14:06	0.1	0.1	0.3
437	06/11/2009 14:07	0.1	0.1	0.3
438	06/11/2009 14:08	0.1	0.1	0.2
439	06/11/2009 14:09	0.1	0.2	0.6
440	06/11/2009 14:10	0.1	0.2	0.6
441	06/11/2009 14:11	0.1	0.2	0.4
442	06/11/2009 14:12	0.1	0.2	0.5
443	06/11/2009 14:13	0.0	0.1	0.3
444	06/11/2009 14:14	0.0	0.1	0.2
445	06/11/2009 14:15	0.0	0.1	0.2
446	06/11/2009 14:16	0.0	0.0	0.1
447	06/11/2009 14:17	0.0	0.1	0.4
448	06/11/2009 14:18	0.0	0.0	0.2
449	06/11/2009 14:19	0.0	0.2	0.7
450	06/11/2009 14:20	0.2	0.2	0.4
451	06/11/2009 14:21	0.1	0.3	1.1
452	06/11/2009 14:22	0.1	0.2	0.5
453	06/11/2009 14:23	0.1	0.1	0.3
454	06/11/2009 14:24	0.0	0.1	0.2
455	06/11/2009 14:25	0.1	0.1	0.2
456	06/11/2009 14:26	0.0	0.1	0.2
457	06/11/2009 14:27	0.1	0.1	0.2

458	06/11/2009 14:28	0.1	0.1	0.2
459	06/11/2009 14:29	0.1	0.1	0.2
460	06/11/2009 14:30	0.1	0.1	0.2
461	06/11/2009 14:31	0.1	0.1	0.3
462	06/11/2009 14:32	0.1	0.1	0.2
463	06/11/2009 14:33	0.1	0.1	0.4
464	06/11/2009 14:34	0.1	0.3	0.7
465	06/11/2009 14:35	0.1	0.3	0.8
466	06/11/2009 14:36	0.0	0.1	0.4
467	06/11/2009 14:37	0.1	0.1	0.2
468	06/11/2009 14:38	0.0	0.1	0.2
469	06/11/2009 14:39	0.0	0.1	0.2
470	06/11/2009 14:40	0.1	0.1	0.2
471	06/11/2009 14:41	0.1	0.1	0.4
472	06/11/2009 14:42	0.1	0.1	0.2
473	06/11/2009 14:43	0.1	0.1	0.2
474	06/11/2009 14:44	0.1	0.1	0.2
475	06/11/2009 14:45	0.0	0.1	0.2
476	06/11/2009 14:46	0.0	0.1	0.2
477	06/11/2009 14:47	0.1	0.1	0.2
478	06/11/2009 14:48	0.1	0.1	0.2
479	06/11/2009 14:49	0.1	0.1	0.3
480	06/11/2009 14:50	0.1	0.1	0.2
481	06/11/2009 14:51	0.1	0.1	0.4
482	06/11/2009 14:52	0.0	0.1	0.2
483	06/11/2009 14:53	0.1	0.7	2.2
484	06/11/2009 14:54	0.1	0.3	0.8
485	06/11/2009 14:55	0.1	0.1	0.3
486	06/11/2009 14:56	0.0	0.1	0.2
487	06/11/2009 14:57	0.0	0.0	0.1
488	06/11/2009 14:58	0.0	0.1	0.2
489	06/11/2009 14:59	0.1	0.1	0.2
490	06/11/2009 15:00	0.1	0.1	0.2
491	06/11/2009 15:01	0.1	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600)      Serial Number: 902326  
User ID: 00000001      Site ID: Station3  
Data Points: 507      Gas Name: Isobutylene      Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

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=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
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=====
Line#   Date Time      Min(ppm)      Avg(ppm)      Max(ppm)
=====
```

1	06/11/2009 06:40	0.0	0.0	0.0
2	06/11/2009 06:41	0.0	0.0	0.0
3	06/11/2009 06:42	0.0	0.0	0.0
4	06/11/2009 06:43	0.0	0.0	0.0
5	06/11/2009 06:44	0.0	0.0	0.0
6	06/11/2009 06:45	0.0	0.0	0.0
7	06/11/2009 06:46	0.0	0.0	0.0
8	06/11/2009 06:47	0.0	0.0	0.0
9	06/11/2009 06:48	0.0	0.0	0.0
10	06/11/2009 06:49	0.0	0.0	0.0
11	06/11/2009 06:50	0.0	0.0	0.0
12	06/11/2009 06:51	0.0	0.0	0.0
13	06/11/2009 06:52	0.0	0.0	0.0
14	06/11/2009 06:53	0.0	0.0	0.0
15	06/11/2009 06:54	0.0	0.0	0.0
16	06/11/2009 06:55	0.0	0.0	0.0
17	06/11/2009 06:56	0.0	0.0	0.0
18	06/11/2009 06:57	0.0	0.0	0.0
19	06/11/2009 06:58	0.0	0.0	0.0
20	06/11/2009 06:59	0.0	0.0	0.0
21	06/11/2009 07:00	0.0	0.0	0.0
22	06/11/2009 07:01	0.0	0.0	0.0
23	06/11/2009 07:02	0.0	0.0	0.0
24	06/11/2009 07:03	0.0	0.0	0.0
25	06/11/2009 07:04	0.0	0.0	0.0
26	06/11/2009 07:05	0.0	0.0	0.0
27	06/11/2009 07:06	0.0	0.0	0.0
28	06/11/2009 07:07	0.0	0.0	0.0
29	06/11/2009 07:08	0.0	0.0	0.0
30	06/11/2009 07:09	0.0	0.0	0.0
31	06/11/2009 07:10	0.0	0.0	0.0
32	06/11/2009 07:11	0.0	0.0	0.0
33	06/11/2009 07:12	0.0	0.0	0.0
34	06/11/2009 07:13	0.0	0.0	0.0
35	06/11/2009 07:14	0.0	0.0	0.0
36	06/11/2009 07:15	0.0	0.0	0.0
37	06/11/2009 07:16	0.0	0.0	0.0
38	06/11/2009 07:17	0.0	0.0	0.0
39	06/11/2009 07:18	0.0	0.0	0.0
40	06/11/2009 07:19	0.0	0.0	0.0
41	06/11/2009 07:20	0.0	0.0	0.0

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=====
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42	06/11/2009 07:21	0.0	0.0	0.0
43	06/11/2009 07:22	0.0	0.0	0.0
44	06/11/2009 07:23	0.0	0.0	0.0
45	06/11/2009 07:24	0.0	0.0	0.0
46	06/11/2009 07:25	0.0	0.0	0.0
47	06/11/2009 07:26	0.0	0.0	0.0
48	06/11/2009 07:27	0.0	0.0	0.0
49	06/11/2009 07:28	0.0	0.0	0.0
50	06/11/2009 07:29	0.0	0.0	0.0
51	06/11/2009 07:30	0.0	0.0	0.0
52	06/11/2009 07:31	0.0	0.0	0.0
53	06/11/2009 07:32	0.0	0.0	0.0
54	06/11/2009 07:33	0.0	0.0	0.0
55	06/11/2009 07:34	0.0	0.0	0.0
56	06/11/2009 07:35	0.0	0.0	0.0
57	06/11/2009 07:36	0.0	0.0	0.0
58	06/11/2009 07:37	0.0	0.0	0.0
59	06/11/2009 07:38	0.0	0.0	0.0
60	06/11/2009 07:39	0.0	0.0	0.0
61	06/11/2009 07:40	0.0	0.0	0.0
62	06/11/2009 07:41	0.0	0.0	0.0
63	06/11/2009 07:42	0.0	0.0	0.0
64	06/11/2009 07:43	0.0	0.0	0.0
65	06/11/2009 07:44	0.0	0.0	0.0
66	06/11/2009 07:45	0.0	0.0	0.0
67	06/11/2009 07:46	0.0	0.0	0.0
68	06/11/2009 07:47	0.0	0.0	0.0
69	06/11/2009 07:48	0.0	0.0	0.0
70	06/11/2009 07:49	0.0	0.0	0.0
71	06/11/2009 07:50	0.0	0.0	0.0
72	06/11/2009 07:51	0.0	0.0	0.0
73	06/11/2009 07:52	0.0	0.0	0.0
74	06/11/2009 07:53	0.0	0.0	0.0
75	06/11/2009 07:54	0.0	0.0	0.0
76	06/11/2009 07:55	0.0	0.0	0.0
77	06/11/2009 07:56	0.0	0.0	0.0
78	06/11/2009 07:57	0.0	0.0	0.0
79	06/11/2009 07:58	0.0	0.0	0.0
80	06/11/2009 07:59	0.0	0.0	0.0
81	06/11/2009 08:00	0.0	0.0	0.0
82	06/11/2009 08:01	0.0	0.0	0.0
83	06/11/2009 08:02	0.0	0.0	0.0
84	06/11/2009 08:03	0.0	0.0	0.0
85	06/11/2009 08:04	0.0	0.0	0.0
86	06/11/2009 08:05	0.0	0.0	0.0
87	06/11/2009 08:06	0.0	0.0	0.0
88	06/11/2009 08:07	0.0	0.0	0.0
89	06/11/2009 08:08	0.0	0.0	0.0
90	06/11/2009 08:09	0.0	0.0	0.0
91	06/11/2009 08:10	0.0	0.0	0.0
92	06/11/2009 08:11	0.0	0.0	0.0
93	06/11/2009 08:12	0.0	0.0	0.0

94	06/11/2009 08:13	0.0	0.0	0.0
95	06/11/2009 08:14	0.0	0.0	0.0
96	06/11/2009 08:15	0.0	0.0	0.0
97	06/11/2009 08:16	0.0	0.0	0.0
98	06/11/2009 08:17	0.0	0.0	0.0
99	06/11/2009 08:18	0.0	0.0	0.0
100	06/11/2009 08:19	0.0	0.0	0.0
101	06/11/2009 08:20	0.0	0.0	0.0
102	06/11/2009 08:21	0.0	0.0	0.0
103	06/11/2009 08:22	0.0	0.0	0.0
104	06/11/2009 08:23	0.0	0.0	0.0
105	06/11/2009 08:24	0.0	0.0	0.0
106	06/11/2009 08:25	0.0	0.0	0.0
107	06/11/2009 08:26	0.0	0.0	0.0
108	06/11/2009 08:27	0.0	0.0	0.0
109	06/11/2009 08:28	0.0	0.0	0.0
110	06/11/2009 08:29	0.0	0.0	0.0
111	06/11/2009 08:30	0.0	0.0	0.0
112	06/11/2009 08:31	0.0	0.0	0.0
113	06/11/2009 08:32	0.0	0.0	0.0
114	06/11/2009 08:33	0.0	0.0	0.0
115	06/11/2009 08:34	0.0	0.0	0.0
116	06/11/2009 08:35	0.0	0.0	0.0
117	06/11/2009 08:36	0.0	0.0	0.0
118	06/11/2009 08:37	0.0	0.0	0.0
119	06/11/2009 08:38	0.0	0.0	0.0
120	06/11/2009 08:39	0.0	0.0	0.0
121	06/11/2009 08:40	0.0	0.0	0.0
122	06/11/2009 08:41	0.0	0.0	0.0
123	06/11/2009 08:42	0.0	0.0	0.0
124	06/11/2009 08:43	0.0	0.0	0.0
125	06/11/2009 08:44	0.0	0.0	0.0
126	06/11/2009 08:45	0.0	0.0	0.0
127	06/11/2009 08:46	0.0	0.0	0.0
128	06/11/2009 08:47	0.0	0.0	0.0
129	06/11/2009 08:48	0.0	0.0	0.0
130	06/11/2009 08:49	0.0	0.0	0.0
131	06/11/2009 08:50	0.0	0.0	0.0
132	06/11/2009 08:51	0.0	0.0	0.0
133	06/11/2009 08:52	0.0	0.0	0.0
134	06/11/2009 08:53	0.0	0.0	0.0
135	06/11/2009 08:54	0.0	0.0	0.0
136	06/11/2009 08:55	0.0	0.0	0.0
137	06/11/2009 08:56	0.0	0.0	0.0
138	06/11/2009 08:57	0.0	0.0	0.0
139	06/11/2009 08:58	0.0	0.0	0.0
140	06/11/2009 08:59	0.0	0.0	0.0
141	06/11/2009 09:00	0.0	0.0	0.0
142	06/11/2009 09:01	0.0	0.0	0.0
143	06/11/2009 09:02	0.0	0.0	0.0
144	06/11/2009 09:03	0.0	0.0	0.0
145	06/11/2009 09:04	0.0	0.0	0.0

146	06/11/2009 09:05	0.0	0.0	0.0
147	06/11/2009 09:06	0.0	0.0	0.0
148	06/11/2009 09:07	0.0	0.0	0.0
149	06/11/2009 09:08	0.0	0.0	0.0
150	06/11/2009 09:09	0.0	0.0	0.0
151	06/11/2009 09:10	0.0	0.0	0.0
152	06/11/2009 09:11	0.0	0.0	0.0
153	06/11/2009 09:12	0.0	0.0	0.0
154	06/11/2009 09:13	0.0	0.0	0.0
155	06/11/2009 09:14	0.0	0.0	0.0
156	06/11/2009 09:15	0.0	0.0	0.0
157	06/11/2009 09:16	0.0	0.0	0.0
158	06/11/2009 09:17	0.0	0.0	0.0
159	06/11/2009 09:18	0.0	0.0	0.0
160	06/11/2009 09:19	0.0	0.0	0.0
161	06/11/2009 09:20	0.0	0.0	0.0
162	06/11/2009 09:21	0.0	0.0	0.0
163	06/11/2009 09:22	0.0	0.0	0.2
164	06/11/2009 09:23	0.0	0.0	0.0
165	06/11/2009 09:24	0.0	0.0	0.0
166	06/11/2009 09:25	0.0	0.0	0.0
167	06/11/2009 09:26	0.0	0.0	0.0
168	06/11/2009 09:27	0.0	0.0	0.0
169	06/11/2009 09:28	0.0	0.0	0.0
170	06/11/2009 09:29	0.0	0.0	0.0
171	06/11/2009 09:30	0.0	0.0	0.0
172	06/11/2009 09:31	0.0	0.0	0.0
173	06/11/2009 09:32	0.0	0.0	0.0
174	06/11/2009 09:33	0.0	0.0	0.0
175	06/11/2009 09:34	0.0	0.0	0.0
176	06/11/2009 09:35	0.0	0.0	0.0
177	06/11/2009 09:36	0.0	0.0	0.0
178	06/11/2009 09:37	0.0	0.0	0.0
179	06/11/2009 09:38	0.0	0.0	0.0
180	06/11/2009 09:39	0.0	0.0	0.0
181	06/11/2009 09:40	0.0	0.0	0.0
182	06/11/2009 09:41	0.0	0.0	0.0
183	06/11/2009 09:42	0.0	0.0	0.0
184	06/11/2009 09:43	0.0	0.0	0.0
185	06/11/2009 09:44	0.0	0.0	0.0
186	06/11/2009 09:45	0.0	0.0	0.0
187	06/11/2009 09:46	0.0	0.0	0.0
188	06/11/2009 09:47	0.0	0.0	0.0
189	06/11/2009 09:48	0.0	0.0	0.0
190	06/11/2009 09:49	0.0	0.0	0.0
191	06/11/2009 09:50	0.0	0.0	0.0
192	06/11/2009 09:51	0.0	0.0	0.0
193	06/11/2009 09:52	0.0	0.0	0.0
194	06/11/2009 09:53	0.0	0.0	0.0
195	06/11/2009 09:54	0.0	0.0	0.0
196	06/11/2009 09:55	0.0	0.0	0.0
197	06/11/2009 09:56	0.0	0.0	0.0



198	06/11/2009 09:57	0.0	0.0	0.0
199	06/11/2009 09:58	0.0	0.0	0.0
200	06/11/2009 09:59	0.0	0.0	0.0
201	06/11/2009 10:00	0.0	0.0	0.0
202	06/11/2009 10:01	0.0	0.0	0.0
203	06/11/2009 10:02	0.0	0.0	0.0
204	06/11/2009 10:03	0.0	0.0	0.0
205	06/11/2009 10:04	0.0	0.0	0.0
206	06/11/2009 10:05	0.0	0.0	0.0
207	06/11/2009 10:06	0.0	0.0	0.0
208	06/11/2009 10:07	0.0	0.0	0.0
209	06/11/2009 10:08	0.0	0.0	0.0
210	06/11/2009 10:09	0.0	0.0	0.0
211	06/11/2009 10:10	0.0	0.0	0.0
212	06/11/2009 10:11	0.0	0.0	0.0
213	06/11/2009 10:12	0.0	0.0	0.0
214	06/11/2009 10:13	0.0	0.0	0.0
215	06/11/2009 10:14	0.0	0.0	0.0
216	06/11/2009 10:15	0.0	0.0	0.0
217	06/11/2009 10:16	0.0	0.2	3.5
218	06/11/2009 10:17	0.0	0.0	0.0
219	06/11/2009 10:18	0.0	0.0	0.0
220	06/11/2009 10:19	0.0	0.0	0.0
221	06/11/2009 10:20	0.0	0.0	0.0
222	06/11/2009 10:21	0.0	0.0	0.0
223	06/11/2009 10:22	0.0	0.0	0.0
224	06/11/2009 10:23	0.0	0.0	0.0
225	06/11/2009 10:24	0.0	0.0	0.0
226	06/11/2009 10:25	0.0	0.0	0.0
227	06/11/2009 10:26	0.0	0.0	0.0
228	06/11/2009 10:27	0.0	0.0	0.0
229	06/11/2009 10:28	0.0	0.0	0.0
230	06/11/2009 10:29	0.0	0.0	0.0
231	06/11/2009 10:30	0.0	0.0	0.0
232	06/11/2009 10:31	0.0	0.0	0.0
233	06/11/2009 10:32	0.0	0.0	0.0
234	06/11/2009 10:33	0.0	0.0	0.3
235	06/11/2009 10:34	0.0	0.0	0.0
236	06/11/2009 10:35	0.0	0.0	0.0
237	06/11/2009 10:36	0.0	0.0	0.3
238	06/11/2009 10:37	0.0	0.0	0.0
239	06/11/2009 10:38	0.0	0.0	0.1
240	06/11/2009 10:39	0.0	0.0	0.0
241	06/11/2009 10:40	0.0	0.0	0.0
242	06/11/2009 10:41	0.0	0.0	0.0
243	06/11/2009 10:42	0.0	0.0	0.0
244	06/11/2009 10:43	0.0	0.0	0.0
245	06/11/2009 10:44	0.0	0.0	0.0
246	06/11/2009 10:45	0.0	0.0	0.0
247	06/11/2009 10:46	0.0	0.0	0.0
248	06/11/2009 10:47	0.0	0.0	0.0
249	06/11/2009 10:48	0.0	0.0	0.0

250	06/11/2009 10:49	0.0	0.0	0.0
251	06/11/2009 10:50	0.0	0.0	0.0
252	06/11/2009 10:51	0.0	0.0	0.0
253	06/11/2009 10:52	0.0	0.0	0.0
254	06/11/2009 10:53	0.0	0.0	0.0
255	06/11/2009 10:54	0.0	0.0	0.0
256	06/11/2009 10:55	0.0	0.0	0.0
257	06/11/2009 10:56	0.0	0.0	0.0
258	06/11/2009 10:57	0.0	0.0	0.0
259	06/11/2009 10:58	0.0	0.0	0.0
260	06/11/2009 10:59	0.0	0.0	0.0
261	06/11/2009 11:00	0.0	0.0	0.0
262	06/11/2009 11:01	0.0	0.0	0.0
263	06/11/2009 11:02	0.0	0.0	0.0
264	06/11/2009 11:03	0.0	0.0	0.0
265	06/11/2009 11:04	0.0	0.0	0.0
266	06/11/2009 11:05	0.0	0.0	0.0
267	06/11/2009 11:06	0.0	0.0	0.0
268	06/11/2009 11:07	0.0	0.0	0.0
269	06/11/2009 11:08	0.0	0.0	0.0
270	06/11/2009 11:09	0.0	0.0	0.0
271	06/11/2009 11:10	0.0	0.0	0.0
272	06/11/2009 11:11	0.0	0.0	0.0
273	06/11/2009 11:12	0.0	0.0	0.0
274	06/11/2009 11:13	0.0	0.0	0.0
275	06/11/2009 11:14	0.0	0.0	0.0
276	06/11/2009 11:15	0.0	0.0	0.0
277	06/11/2009 11:16	0.0	0.0	0.0
278	06/11/2009 11:17	0.0	0.0	0.0
279	06/11/2009 11:18	0.0	0.0	0.0
280	06/11/2009 11:19	0.0	0.0	0.0
281	06/11/2009 11:20	0.0	0.0	0.0
282	06/11/2009 11:21	0.0	0.0	0.0
283	06/11/2009 11:22	0.0	0.0	0.0
284	06/11/2009 11:23	0.0	0.0	0.0
285	06/11/2009 11:24	0.0	0.0	0.0
286	06/11/2009 11:25	0.0	0.0	0.0
287	06/11/2009 11:26	0.0	0.0	0.0
288	06/11/2009 11:27	0.0	0.0	0.0
289	06/11/2009 11:28	0.0	0.0	0.0
290	06/11/2009 11:29	0.0	0.0	0.0
291	06/11/2009 11:30	0.0	0.0	0.0
292	06/11/2009 11:31	0.0	0.0	0.0
293	06/11/2009 11:32	0.0	0.0	0.0
294	06/11/2009 11:33	0.0	0.0	0.0
295	06/11/2009 11:34	0.0	0.0	0.0
296	06/11/2009 11:35	0.0	0.0	0.0
297	06/11/2009 11:36	0.0	0.0	0.0
298	06/11/2009 11:37	0.0	0.0	0.0
299	06/11/2009 11:38	0.0	0.0	0.0
300	06/11/2009 11:39	0.0	0.0	0.0
301	06/11/2009 11:40	0.0	0.0	0.0

302	06/11/2009 11:41	0.0	0.0	0.0
303	06/11/2009 11:42	0.0	0.0	0.0
304	06/11/2009 11:43	0.0	0.0	0.0
305	06/11/2009 11:44	0.0	0.0	0.0
306	06/11/2009 11:45	0.0	0.0	0.0
307	06/11/2009 11:46	0.0	0.0	0.0
308	06/11/2009 11:47	0.0	0.0	0.0
309	06/11/2009 11:48	0.0	0.0	0.0
310	06/11/2009 11:49	0.0	0.0	0.0
311	06/11/2009 11:50	0.0	0.0	0.0
312	06/11/2009 11:51	0.0	0.0	0.0
313	06/11/2009 11:52	0.0	0.0	0.0
314	06/11/2009 11:53	0.0	0.0	0.0
315	06/11/2009 11:54	0.0	0.0	0.0
316	06/11/2009 11:55	0.0	0.0	0.0
317	06/11/2009 11:56	0.0	0.0	0.0
318	06/11/2009 11:57	0.0	0.0	0.0
319	06/11/2009 11:58	0.0	0.0	0.0
320	06/11/2009 11:59	0.0	0.0	0.0
321	06/11/2009 12:00	0.0	0.0	0.0
322	06/11/2009 12:01	0.0	0.0	0.0
323	06/11/2009 12:02	0.0	0.0	0.0
324	06/11/2009 12:03	0.0	0.0	0.0
325	06/11/2009 12:04	0.0	0.0	0.0
326	06/11/2009 12:05	0.0	0.0	0.0
327	06/11/2009 12:06	0.0	0.0	0.0
328	06/11/2009 12:07	0.0	0.0	0.0
329	06/11/2009 12:08	0.0	0.0	0.0
330	06/11/2009 12:09	0.0	0.0	0.0
331	06/11/2009 12:10	0.0	0.0	0.0
332	06/11/2009 12:11	0.0	0.0	0.0
333	06/11/2009 12:12	0.0	0.0	0.0
334	06/11/2009 12:13	0.0	0.0	0.0
335	06/11/2009 12:14	0.0	0.0	0.0
336	06/11/2009 12:15	0.0	0.0	0.0
337	06/11/2009 12:16	0.0	0.0	0.0
338	06/11/2009 12:17	0.0	0.0	0.0
339	06/11/2009 12:18	0.0	0.0	0.0
340	06/11/2009 12:19	0.0	0.0	1.3
341	06/11/2009 12:20	0.0	0.0	0.0
342	06/11/2009 12:21	0.0	0.0	0.0
343	06/11/2009 12:22	0.0	0.0	0.0
344	06/11/2009 12:23	0.0	0.0	0.0
345	06/11/2009 12:24	0.0	0.0	0.0
346	06/11/2009 12:25	0.0	0.0	0.0
347	06/11/2009 12:26	0.0	0.0	0.0
348	06/11/2009 12:27	0.0	0.0	0.0
349	06/11/2009 12:28	0.0	0.0	0.0
350	06/11/2009 12:29	0.0	0.0	0.0
351	06/11/2009 12:30	0.0	0.0	0.0
352	06/11/2009 12:31	0.0	0.0	0.0
353	06/11/2009 12:32	0.0	0.0	0.0

354	06/11/2009 12:33	0.0	0.0	0.0
355	06/11/2009 12:34	0.0	0.0	0.0
356	06/11/2009 12:35	0.0	0.0	0.0
357	06/11/2009 12:36	0.0	0.0	0.0
358	06/11/2009 12:37	0.0	0.0	0.0
359	06/11/2009 12:38	0.0	0.0	0.0
360	06/11/2009 12:39	0.0	0.0	0.0
361	06/11/2009 12:40	0.0	0.0	0.0
362	06/11/2009 12:41	0.0	0.0	0.0
363	06/11/2009 12:42	0.0	0.0	0.0
364	06/11/2009 12:43	0.0	0.0	0.0
365	06/11/2009 12:44	0.0	0.0	0.0
366	06/11/2009 12:45	0.0	0.0	0.0
367	06/11/2009 12:46	0.0	0.0	0.0
368	06/11/2009 12:47	0.0	0.0	0.0
369	06/11/2009 12:48	0.0	0.0	0.0
370	06/11/2009 12:49	0.0	0.0	0.0
371	06/11/2009 12:50	0.0	0.0	0.0
372	06/11/2009 12:51	0.0	0.0	0.0
373	06/11/2009 12:52	0.0	0.0	0.0
374	06/11/2009 12:53	0.0	0.0	0.0
375	06/11/2009 12:54	0.0	0.0	0.0
376	06/11/2009 12:55	0.0	0.0	0.0
377	06/11/2009 12:56	0.0	0.0	0.0
378	06/11/2009 12:57	0.0	0.0	0.0
379	06/11/2009 12:58	0.0	0.0	0.0
380	06/11/2009 12:59	0.0	0.0	0.0
381	06/11/2009 13:00	0.0	0.0	0.0
382	06/11/2009 13:01	0.0	0.0	0.0
383	06/11/2009 13:02	0.0	0.0	0.0
384	06/11/2009 13:03	0.0	0.0	0.0
385	06/11/2009 13:04	0.0	0.0	0.0
386	06/11/2009 13:05	0.0	0.0	0.0
387	06/11/2009 13:06	0.0	0.0	0.0
388	06/11/2009 13:07	0.0	0.0	0.0
389	06/11/2009 13:08	0.0	0.0	0.0
390	06/11/2009 13:09	0.0	0.0	0.0
391	06/11/2009 13:10	0.0	0.0	0.0
392	06/11/2009 13:11	0.0	0.0	0.0
393	06/11/2009 13:12	0.0	0.0	0.0
394	06/11/2009 13:13	0.0	0.0	0.0
395	06/11/2009 13:14	0.0	0.0	0.0
396	06/11/2009 13:15	0.0	0.0	0.0
397	06/11/2009 13:16	0.0	0.0	0.0
398	06/11/2009 13:17	0.0	0.0	0.0
399	06/11/2009 13:18	0.0	0.0	0.0
400	06/11/2009 13:19	0.0	0.0	0.0
401	06/11/2009 13:20	0.0	0.0	0.0
402	06/11/2009 13:21	0.0	0.0	0.0
403	06/11/2009 13:22	0.0	0.0	0.0
404	06/11/2009 13:23	0.0	0.0	0.0
405	06/11/2009 13:24	0.0	0.0	0.0

406	06/11/2009 13:25	0.0	0.0	0.0
407	06/11/2009 13:26	0.0	0.0	0.0
408	06/11/2009 13:27	0.0	0.0	0.0
409	06/11/2009 13:28	0.0	0.0	0.0
410	06/11/2009 13:29	0.0	0.0	0.0
411	06/11/2009 13:30	0.0	0.0	0.0
412	06/11/2009 13:31	0.0	0.0	0.0
413	06/11/2009 13:32	0.0	0.0	0.0
414	06/11/2009 13:33	0.0	0.0	0.0
415	06/11/2009 13:34	0.0	0.0	0.0
416	06/11/2009 13:35	0.0	0.0	0.0
417	06/11/2009 13:36	0.0	0.0	0.0
418	06/11/2009 13:37	0.0	0.0	0.0
419	06/11/2009 13:38	0.0	0.0	0.0
420	06/11/2009 13:39	0.0	0.0	0.0
421	06/11/2009 13:40	0.0	0.0	0.0
422	06/11/2009 13:41	0.0	0.0	0.0
423	06/11/2009 13:42	0.0	0.0	0.0
424	06/11/2009 13:43	0.0	0.0	0.0
425	06/11/2009 13:44	0.0	0.0	0.0
426	06/11/2009 13:45	0.0	0.0	0.0
427	06/11/2009 13:46	0.0	0.0	0.0
428	06/11/2009 13:47	0.0	0.0	0.0
429	06/11/2009 13:48	0.0	0.0	0.0
430	06/11/2009 13:49	0.0	0.0	0.0
431	06/11/2009 13:50	0.0	0.0	0.0
432	06/11/2009 13:51	0.0	0.0	0.0
433	06/11/2009 13:52	0.0	0.0	0.0
434	06/11/2009 13:53	0.0	0.0	0.0
435	06/11/2009 13:54	0.0	0.0	0.0
436	06/11/2009 13:55	0.0	0.0	0.0
437	06/11/2009 13:56	0.0	0.0	0.0
438	06/11/2009 13:57	0.0	0.0	0.0
439	06/11/2009 13:58	0.0	0.0	0.0
440	06/11/2009 13:59	0.0	0.0	0.0
441	06/11/2009 14:00	0.0	0.0	0.0
442	06/11/2009 14:01	0.0	0.0	0.0
443	06/11/2009 14:02	0.0	0.0	0.0
444	06/11/2009 14:03	0.0	0.0	0.0
445	06/11/2009 14:04	0.0	0.0	0.0
446	06/11/2009 14:05	0.0	0.0	0.0
447	06/11/2009 14:06	0.0	0.0	0.0
448	06/11/2009 14:07	0.0	0.0	0.0
449	06/11/2009 14:08	0.0	0.0	0.0
450	06/11/2009 14:09	0.0	0.0	0.0
451	06/11/2009 14:10	0.0	0.0	0.0
452	06/11/2009 14:11	0.0	0.0	0.0
453	06/11/2009 14:12	0.0	0.0	0.0
454	06/11/2009 14:13	0.0	0.0	0.0
455	06/11/2009 14:14	0.0	0.0	0.0
456	06/11/2009 14:15	0.0	0.0	0.0
457	06/11/2009 14:16	0.0	0.0	0.0

458	06/11/2009 14:17	0.0	0.0	0.0
459	06/11/2009 14:18	0.0	0.0	0.0
460	06/11/2009 14:19	0.0	0.0	0.0
461	06/11/2009 14:20	0.0	0.0	0.0
462	06/11/2009 14:21	0.0	0.0	0.0
463	06/11/2009 14:22	0.0	0.0	0.0
464	06/11/2009 14:23	0.0	0.0	0.0
465	06/11/2009 14:24	0.0	0.0	0.0
466	06/11/2009 14:25	0.0	0.0	0.0
467	06/11/2009 14:26	0.0	0.0	0.0
468	06/11/2009 14:27	0.0	0.0	0.0
469	06/11/2009 14:28	0.0	0.0	0.0
470	06/11/2009 14:29	0.0	0.0	0.0
471	06/11/2009 14:30	0.0	0.0	0.0
472	06/11/2009 14:31	0.0	0.0	0.0
473	06/11/2009 14:32	0.0	0.0	0.0
474	06/11/2009 14:33	0.0	0.0	0.0
475	06/11/2009 14:34	0.0	0.0	0.0
476	06/11/2009 14:35	0.0	0.0	0.0
477	06/11/2009 14:36	0.0	0.0	0.0
478	06/11/2009 14:37	0.0	0.0	0.0
479	06/11/2009 14:38	0.0	0.0	0.0
480	06/11/2009 14:39	0.0	0.0	0.0
481	06/11/2009 14:40	0.0	0.0	0.0
482	06/11/2009 14:41	0.0	0.0	0.0
483	06/11/2009 14:42	0.0	0.0	0.0
484	06/11/2009 14:43	0.0	0.0	0.0
485	06/11/2009 14:44	0.0	0.0	0.0
486	06/11/2009 14:45	0.0	0.0	0.0
487	06/11/2009 14:46	0.0	0.0	0.0
488	06/11/2009 14:47	0.0	0.0	0.0
489	06/11/2009 14:48	0.0	0.0	0.0
490	06/11/2009 14:49	0.0	0.0	0.0
491	06/11/2009 14:50	0.0	0.0	0.0
492	06/11/2009 14:51	0.0	0.0	0.1
493	06/11/2009 14:52	0.0	0.0	0.0
494	06/11/2009 14:53	0.0	0.0	0.0
495	06/11/2009 14:54	0.0	0.0	0.0
496	06/11/2009 14:55	0.0	0.0	0.0
497	06/11/2009 14:56	0.0	0.0	0.0
498	06/11/2009 14:57	0.0	0.0	0.0
499	06/11/2009 14:58	0.0	0.0	0.0
500	06/11/2009 14:59	0.0	0.0	0.0
501	06/11/2009 15:00	0.0	0.0	0.0
502	06/11/2009 15:01	0.0	0.0	0.0
503	06/11/2009 15:02	0.0	0.0	0.0
504	06/11/2009 15:03	0.0	0.0	0.0
505	06/11/2009 15:04	0.0	0.0	0.0
506	06/11/2009 15:05	0.0	0.0	0.0
507	06/11/2009 15:06	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 110 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/12/2009 13:35      0.0        0.0        0.0
2 06/12/2009 13:36      0.0        0.0        0.0
3 06/12/2009 13:37      0.0        0.0        0.3
4 06/12/2009 13:38      0.0        0.0        0.3
5 06/12/2009 13:39      0.0        0.0        0.0
6 06/12/2009 13:40      0.0        0.0        0.0
7 06/12/2009 13:41      0.0        0.0        0.0
8 06/12/2009 13:42      0.0        0.0        0.0
9 06/12/2009 13:43      0.0        0.0        0.0
10 06/12/2009 13:44      0.0        0.0        0.0
11 06/12/2009 13:45      0.0        0.0        0.0
12 06/12/2009 13:46      0.0        0.0        0.0
13 06/12/2009 13:47      0.0        0.0        0.0
14 06/12/2009 13:48      0.0        0.0        0.0
15 06/12/2009 13:49      0.0        0.0        0.0
16 06/12/2009 13:50      0.0        0.0        0.0
17 06/12/2009 13:51      0.0        0.0        0.0
18 06/12/2009 13:52      0.0        0.0        0.0
19 06/12/2009 13:53      0.0        0.0        0.0
20 06/12/2009 13:54      0.0        0.0        0.0
21 06/12/2009 13:55      0.0        0.0        0.0
22 06/12/2009 13:56      0.0        0.0        0.0
23 06/12/2009 13:57      0.0        0.0        0.0
24 06/12/2009 13:58      0.0        0.0        0.0
25 06/12/2009 13:59      0.0        0.0        0.0
26 06/12/2009 14:00      0.0        0.0        0.0
27 06/12/2009 14:01      0.0        0.0        0.0
28 06/12/2009 14:02      0.0        0.0        0.0
29 06/12/2009 14:03      0.0        0.0        0.0
30 06/12/2009 14:04      0.0        0.0        0.0
31 06/12/2009 14:05      0.0        0.0        0.0
32 06/12/2009 14:06      0.0        0.0        0.0
33 06/12/2009 14:07      0.0        0.0        0.0
34 06/12/2009 14:08      0.0        0.0        0.0
35 06/12/2009 14:09      0.0        0.0        0.0
36 06/12/2009 14:10      0.0        0.0        0.0
37 06/12/2009 14:11      0.0        0.0        0.0
38 06/12/2009 14:12      0.0        0.0        0.0
39 06/12/2009 14:13      0.0        0.0        0.0
40 06/12/2009 14:14      0.0        0.0        0.0
41 06/12/2009 14:15      0.0        0.0        0.0
```

42	06/12/2009 14:16	0.0	0.0	0.0
43	06/12/2009 14:17	0.0	0.0	0.0
44	06/12/2009 14:18	0.0	0.0	0.0
45	06/12/2009 14:19	0.0	0.0	0.0
46	06/12/2009 14:20	0.0	0.0	0.0
47	06/12/2009 14:21	0.0	0.0	0.0
48	06/12/2009 14:22	0.0	0.0	0.0
49	06/12/2009 14:23	0.0	0.0	0.0
50	06/12/2009 14:24	0.0	0.0	0.0
51	06/12/2009 14:25	0.0	0.0	0.0
52	06/12/2009 14:26	0.0	0.0	0.0
53	06/12/2009 14:27	0.0	0.0	0.0
54	06/12/2009 14:28	0.0	0.0	0.0
55	06/12/2009 14:29	0.0	0.0	0.0
56	06/12/2009 14:30	0.0	0.0	0.0
57	06/12/2009 14:31	0.0	0.0	0.0
58	06/12/2009 14:32	0.0	0.0	0.0
59	06/12/2009 14:33	0.0	0.0	0.0
60	06/12/2009 14:34	0.0	0.0	0.0
61	06/12/2009 14:35	0.0	0.0	0.0
62	06/12/2009 14:36	0.0	0.0	0.0
63	06/12/2009 14:37	0.0	0.0	0.0
64	06/12/2009 14:38	0.0	0.0	0.0
65	06/12/2009 14:39	0.0	0.0	0.0
66	06/12/2009 14:40	0.0	0.0	0.0
67	06/12/2009 14:41	0.0	0.0	0.0
68	06/12/2009 14:42	0.0	0.0	0.0
69	06/12/2009 14:43	0.0	0.0	0.0
70	06/12/2009 14:44	0.0	0.0	0.0
71	06/12/2009 14:45	0.0	0.0	0.0
72	06/12/2009 14:46	0.0	0.0	0.0
73	06/12/2009 14:47	0.0	0.0	0.0
74	06/12/2009 14:48	0.0	0.0	0.0
75	06/12/2009 14:49	0.0	0.0	0.0
76	06/12/2009 14:50	0.0	0.0	0.0
77	06/12/2009 14:51	0.0	0.0	0.0
78	06/12/2009 14:52	0.0	0.0	0.0
79	06/12/2009 14:53	0.0	0.0	0.0
80	06/12/2009 14:54	0.0	0.0	0.0
81	06/12/2009 14:55	0.0	0.0	0.0
82	06/12/2009 14:56	0.0	0.0	0.0
83	06/12/2009 14:57	0.0	0.0	0.0
84	06/12/2009 14:58	0.0	0.0	0.0
85	06/12/2009 14:59	0.0	0.0	0.0
86	06/12/2009 15:00	0.0	0.0	0.0
87	06/12/2009 15:01	0.0	0.0	0.0
88	06/12/2009 15:02	0.0	0.0	0.0
89	06/12/2009 15:03	0.0	0.0	0.0
90	06/12/2009 15:04	0.0	0.0	0.0
91	06/12/2009 15:05	0.0	0.0	0.0
92	06/12/2009 15:06	0.0	0.0	0.0
93	06/12/2009 15:07	0.0	0.0	0.0



94	06/12/2009 15:08	0.0	0.0	0.0
95	06/12/2009 15:09	0.0	0.0	0.0
96	06/12/2009 15:10	0.0	0.0	0.0
97	06/12/2009 15:11	0.0	0.0	0.0
98	06/12/2009 15:12	0.0	0.0	0.0
99	06/12/2009 15:13	0.0	0.0	0.4
100	06/12/2009 15:14	0.0	0.0	0.0
101	06/12/2009 15:15	0.0	0.0	0.0
102	06/12/2009 15:16	0.0	0.0	0.0
103	06/12/2009 15:17	0.0	0.0	0.0
104	06/12/2009 15:18	0.0	0.0	0.0
105	06/12/2009 15:19	0.0	0.0	0.0
106	06/12/2009 15:20	0.0	0.0	0.0
107	06/12/2009 15:21	0.0	0.0	0.0
108	06/12/2009 15:22	0.0	0.0	0.0
109	06/12/2009 15:23	0.0	0.0	0.0
110	06/12/2009 15:24	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 499 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/12/2009 06:46      0.0      0.0      0.0
2 06/12/2009 06:47      0.0      0.0      0.0
3 06/12/2009 06:48      0.0      0.0      0.0
4 06/12/2009 06:49      0.0      0.0      0.0
5 06/12/2009 06:50      0.0      0.0      0.0
6 06/12/2009 06:51      0.0      0.0      0.0
7 06/12/2009 06:52      0.0      0.0      0.0
8 06/12/2009 06:53      0.0      0.0      0.0
9 06/12/2009 06:54      0.0      0.0      0.0
10 06/12/2009 06:55      0.0      0.0      0.0
11 06/12/2009 06:56      0.0      0.0      0.0
12 06/12/2009 06:57      0.0      0.0      0.0
13 06/12/2009 06:58      0.0      0.0      0.0
14 06/12/2009 06:59      0.0      0.0      0.0
15 06/12/2009 07:00      0.0      0.0      0.0
16 06/12/2009 07:01      0.0      0.0      0.0
17 06/12/2009 07:02      0.0      0.0      0.0
18 06/12/2009 07:03      0.0      0.0      0.0
19 06/12/2009 07:04      0.0      0.0      0.0
20 06/12/2009 07:05      0.0      0.0      0.0
21 06/12/2009 07:06      0.0      0.0      0.0
22 06/12/2009 07:07      0.0      0.0      0.0
23 06/12/2009 07:08      0.0      0.0      0.0
24 06/12/2009 07:09      0.0      0.0      0.0
25 06/12/2009 07:10      0.0      0.0      0.0
26 06/12/2009 07:11      0.0      0.0      0.0
27 06/12/2009 07:12      0.0      0.0      0.1
28 06/12/2009 07:13      0.0      0.0      0.1
29 06/12/2009 07:14      0.0      0.0      0.1
30 06/12/2009 07:15      0.1      0.1      0.1
31 06/12/2009 07:16      0.1      0.1      0.2
32 06/12/2009 07:17      0.1      0.1      0.2
33 06/12/2009 07:18      0.2      0.2      0.2
34 06/12/2009 07:19      0.2      0.2      0.3
35 06/12/2009 07:20      0.3      0.3      0.3
36 06/12/2009 07:21      0.3      0.3      0.4
37 06/12/2009 07:22      0.3      0.3      0.3
38 06/12/2009 07:23      0.3      0.3      0.3
39 06/12/2009 07:24      0.3      0.3      0.3
40 06/12/2009 07:25      0.3      0.3      0.4
41 06/12/2009 07:26      0.4      0.4      0.5
```

42	06/12/2009 07:27	0.5	0.5	0.6
43	06/12/2009 07:28	0.5	0.5	0.6
44	06/12/2009 07:29	0.5	0.5	0.5
45	06/12/2009 07:30	0.5	0.5	0.6
46	06/12/2009 07:31	0.6	0.6	0.8
47	06/12/2009 07:32	0.7	0.7	0.8
48	06/12/2009 07:33	0.8	0.8	0.9
49	06/12/2009 07:34	0.8	0.9	1.0
50	06/12/2009 07:35	0.9	0.9	1.0
51	06/12/2009 07:36	1.0	1.0	1.1
52	06/12/2009 07:37	1.0	1.0	1.0
53	06/12/2009 07:38	0.9	0.9	1.1
54	06/12/2009 07:39	1.0	1.0	1.1
55	06/12/2009 07:40	1.0	1.1	1.2
56	06/12/2009 07:41	1.1	1.1	1.2
57	06/12/2009 07:42	1.1	1.1	1.2
58	06/12/2009 07:43	1.1	1.1	1.2
59	06/12/2009 07:44	1.1	1.1	1.2
60	06/12/2009 07:45	1.1	1.1	1.2
61	06/12/2009 07:46	1.2	1.3	1.4
62	06/12/2009 07:47	1.4	1.4	1.6
63	06/12/2009 07:48	1.5	1.5	1.6
64	06/12/2009 07:49	1.5	1.5	1.6
65	06/12/2009 07:50	1.5	1.5	1.5
66	06/12/2009 07:51	1.5	1.5	1.6
67	06/12/2009 07:52	1.6	1.6	1.6
68	06/12/2009 07:53	1.6	1.6	1.8
69	06/12/2009 07:54	1.5	1.6	1.8
70	06/12/2009 07:55	1.5	1.5	1.6
71	06/12/2009 07:56	1.6	1.6	1.8
72	06/12/2009 07:57	1.8	1.8	1.9
73	06/12/2009 07:58	1.8	1.8	1.9
74	06/12/2009 07:59	1.9	1.9	2.0
75	06/12/2009 08:00	1.9	1.9	1.9
76	06/12/2009 08:01	1.9	1.9	2.0
77	06/12/2009 08:02	1.9	1.9	2.0
78	06/12/2009 08:03	1.9	1.9	2.0
79	06/12/2009 08:04	1.9	1.9	2.0
80	06/12/2009 08:05	1.9	1.9	2.0
81	06/12/2009 08:06	1.9	1.9	2.1
82	06/12/2009 08:07	2.0	2.0	2.0
83	06/12/2009 08:08	2.0	2.0	2.1
84	06/12/2009 08:09	2.0	2.0	2.1
85	06/12/2009 08:10	2.0	2.0	2.1
86	06/12/2009 08:11	2.0	2.0	2.1
87	06/12/2009 08:12	2.0	2.0	2.0
88	06/12/2009 08:13	2.0	2.0	2.1
89	06/12/2009 08:14	2.1	2.1	2.2
90	06/12/2009 08:15	2.1	2.1	2.2
91	06/12/2009 08:16	2.2	2.2	2.4
92	06/12/2009 08:17	2.1	2.2	2.3
93	06/12/2009 08:18	2.0	2.1	2.2

94	06/12/2009 08:19	2.0	2.0	2.1
95	06/12/2009 08:20	1.9	1.9	2.0
96	06/12/2009 08:21	1.9	1.9	2.0
97	06/12/2009 08:22	2.0	2.0	2.1
98	06/12/2009 08:23	1.8	1.9	2.0
99	06/12/2009 08:24	1.8	1.8	1.9
100	06/12/2009 08:25	1.8	1.8	1.8
101	06/12/2009 08:26	1.8	1.8	1.9
102	06/12/2009 08:27	1.7	1.7	1.8
103	06/12/2009 08:28	1.7	1.7	1.8
104	06/12/2009 08:29	1.7	1.8	1.9
105	06/12/2009 08:30	1.8	1.8	1.9
106	06/12/2009 08:31	1.8	1.8	1.8
107	06/12/2009 08:32	1.8	1.8	1.8
108	06/12/2009 08:33	1.8	1.8	1.8
109	06/12/2009 08:34	1.7	1.7	1.8
110	06/12/2009 08:35	1.7	1.7	1.8
111	06/12/2009 08:36	1.8	1.8	1.8
112	06/12/2009 08:37	1.7	1.7	1.9
113	06/12/2009 08:38	1.8	1.8	1.9
114	06/12/2009 08:39	1.7	1.7	1.9
115	06/12/2009 08:40	1.6	1.6	1.7
116	06/12/2009 08:41	1.6	1.6	1.7
117	06/12/2009 08:42	1.6	1.6	1.6
118	06/12/2009 08:43	1.5	1.5	1.6
119	06/12/2009 08:44	1.4	1.4	1.5
120	06/12/2009 08:45	1.4	1.4	1.5
121	06/12/2009 08:46	1.4	1.4	1.5
122	06/12/2009 08:47	1.4	1.4	1.5
123	06/12/2009 08:48	1.4	1.4	1.5
124	06/12/2009 08:49	1.4	1.4	1.5
125	06/12/2009 08:50	1.3	1.3	1.4
126	06/12/2009 08:51	1.3	1.3	1.4
127	06/12/2009 08:52	1.3	1.3	1.4
128	06/12/2009 08:53	1.3	1.3	1.3
129	06/12/2009 08:54	1.2	1.2	1.3
130	06/12/2009 08:55	1.2	1.2	1.3
131	06/12/2009 08:56	1.2	1.2	1.3
132	06/12/2009 08:57	1.2	1.2	1.3
133	06/12/2009 08:58	1.2	1.2	1.2
134	06/12/2009 08:59	1.2	1.2	1.2
135	06/12/2009 09:00	1.1	1.1	1.2
136	06/12/2009 09:01	1.1	1.2	1.3
137	06/12/2009 09:02	1.2	1.2	1.3
138	06/12/2009 09:03	1.2	1.2	1.2
139	06/12/2009 09:04	1.1	1.1	1.2
140	06/12/2009 09:05	1.1	1.1	1.2
141	06/12/2009 09:06	1.1	1.1	1.2
142	06/12/2009 09:07	1.1	1.1	1.2
143	06/12/2009 09:08	1.1	1.1	1.2
144	06/12/2009 09:09	1.1	1.1	1.3
145	06/12/2009 09:10	1.2	1.2	1.3

146	06/12/2009 09:11	1.2	1.2	1.2
147	06/12/2009 09:12	1.2	1.2	1.2
148	06/12/2009 09:13	1.2	1.2	1.3
149	06/12/2009 09:14	1.2	1.2	1.3
150	06/12/2009 09:15	1.2	1.2	1.3
151	06/12/2009 09:16	1.2	1.2	1.2
152	06/12/2009 09:17	1.2	1.2	1.2
153	06/12/2009 09:18	1.1	1.1	1.2
154	06/12/2009 09:19	1.1	1.1	1.2
155	06/12/2009 09:20	1.1	1.1	1.1
156	06/12/2009 09:21	1.1	1.1	1.1
157	06/12/2009 09:22	1.1	1.1	1.2
158	06/12/2009 09:23	1.1	1.1	1.2
159	06/12/2009 09:24	1.1	1.1	1.2
160	06/12/2009 09:25	1.1	1.1	1.2
161	06/12/2009 09:26	1.1	1.1	1.2
162	06/12/2009 09:27	1.1	1.1	1.2
163	06/12/2009 09:28	1.1	1.1	1.2
164	06/12/2009 09:29	1.1	1.1	1.2
165	06/12/2009 09:30	1.1	1.1	1.2
166	06/12/2009 09:31	1.1	1.1	1.2
167	06/12/2009 09:32	1.1	1.1	1.2
168	06/12/2009 09:33	1.1	1.1	1.2
169	06/12/2009 09:34	1.1	1.1	1.1
170	06/12/2009 09:35	1.1	1.1	1.2
171	06/12/2009 09:36	1.1	1.1	1.1
172	06/12/2009 09:37	1.1	1.1	1.1
173	06/12/2009 09:38	1.1	1.1	1.1
174	06/12/2009 09:39	1.1	1.1	1.1
175	06/12/2009 09:40	1.1	1.1	1.2
176	06/12/2009 09:41	1.1	1.1	1.2
177	06/12/2009 09:42	1.1	1.1	1.2
178	06/12/2009 09:43	1.1	1.1	1.2
179	06/12/2009 09:44	1.2	1.2	1.3
180	06/12/2009 09:45	1.1	1.2	1.3
181	06/12/2009 09:46	1.2	1.2	1.3
182	06/12/2009 09:47	1.1	1.1	1.2
183	06/12/2009 09:48	1.1	1.1	1.2
184	06/12/2009 09:49	1.1	1.1	1.1
185	06/12/2009 09:50	1.1	1.1	1.1
186	06/12/2009 09:51	1.1	1.1	1.1
187	06/12/2009 09:52	1.1	1.1	1.1
188	06/12/2009 09:53	1.1	1.1	1.2
189	06/12/2009 09:54	1.1	1.1	1.2
190	06/12/2009 09:55	1.1	1.1	1.2
191	06/12/2009 09:56	1.1	1.1	1.1
192	06/12/2009 09:57	1.0	1.1	1.2
193	06/12/2009 09:58	1.1	1.1	1.1
194	06/12/2009 09:59	1.0	1.0	1.1
195	06/12/2009 10:00	0.9	0.9	1.0
196	06/12/2009 10:01	0.9	0.9	0.9
197	06/12/2009 10:02	0.9	0.9	0.9

198	06/12/2009 10:03	0.8	0.8	0.9
199	06/12/2009 10:04	0.9	0.9	1.0
200	06/12/2009 10:05	0.9	0.9	1.0
201	06/12/2009 10:06	0.9	0.9	1.0
202	06/12/2009 10:07	0.9	0.9	0.9
203	06/12/2009 10:08	0.9	0.9	0.9
204	06/12/2009 10:09	0.9	0.9	1.1
205	06/12/2009 10:10	1.0	1.0	1.1
206	06/12/2009 10:11	0.9	1.0	1.1
207	06/12/2009 10:12	0.9	0.9	1.0
208	06/12/2009 10:13	0.9	0.9	1.1
209	06/12/2009 10:14	0.9	0.9	0.9
210	06/12/2009 10:15	0.9	0.9	1.0
211	06/12/2009 10:16	0.9	0.9	0.9
212	06/12/2009 10:17	0.9	0.9	1.0
213	06/12/2009 10:18	0.6	0.8	1.1
214	06/12/2009 10:19	0.5	0.5	0.7
215	06/12/2009 10:20	0.4	0.4	0.5
216	06/12/2009 10:21	0.4	0.4	0.5
217	06/12/2009 10:22	0.5	0.5	0.7
218	06/12/2009 10:23	0.5	0.5	0.7
219	06/12/2009 10:24	0.4	0.4	0.5
220	06/12/2009 10:25	0.4	0.4	0.6
221	06/12/2009 10:26	0.4	0.4	0.5
222	06/12/2009 10:27	0.4	0.4	0.5
223	06/12/2009 10:28	0.3	0.3	0.4
224	06/12/2009 10:29	0.3	0.3	0.3
225	06/12/2009 10:30	0.2	0.2	0.3
226	06/12/2009 10:31	0.2	0.2	0.3
227	06/12/2009 10:32	0.2	0.2	0.3
228	06/12/2009 10:33	0.2	0.2	0.2
229	06/12/2009 10:34	0.2	0.2	0.3
230	06/12/2009 10:35	0.2	0.2	0.2
231	06/12/2009 10:36	0.2	0.2	0.2
232	06/12/2009 10:37	0.2	0.2	0.2
233	06/12/2009 10:38	0.1	0.1	0.2
234	06/12/2009 10:39	0.1	0.1	0.2
235	06/12/2009 10:40	0.1	0.1	0.2
236	06/12/2009 10:41	0.1	0.1	0.2
237	06/12/2009 10:42	0.1	0.1	0.2
238	06/12/2009 10:43	0.2	0.2	0.2
239	06/12/2009 10:44	0.2	0.2	0.2
240	06/12/2009 10:45	0.2	0.2	0.2
241	06/12/2009 10:46	0.1	0.1	0.2
242	06/12/2009 10:47	0.1	0.1	0.2
243	06/12/2009 10:48	0.1	0.1	0.2
244	06/12/2009 10:49	0.1	0.1	0.2
245	06/12/2009 10:50	0.1	0.1	0.2
246	06/12/2009 10:51	0.1	0.1	0.2
247	06/12/2009 10:52	0.1	0.1	0.2
248	06/12/2009 10:53	0.1	0.1	0.2
249	06/12/2009 10:54	0.1	0.1	0.2

250	06/12/2009 10:55	0.1	0.1	0.2
251	06/12/2009 10:56	0.1	0.1	0.1
252	06/12/2009 10:57	0.1	0.1	0.1
253	06/12/2009 10:58	0.1	0.1	0.1
254	06/12/2009 10:59	0.1	0.1	0.1
255	06/12/2009 11:00	0.1	0.1	0.1
256	06/12/2009 11:01	0.1	0.1	0.1
257	06/12/2009 11:02	0.1	0.1	0.1
258	06/12/2009 11:03	0.1	0.1	0.1
259	06/12/2009 11:04	0.1	0.1	0.1
260	06/12/2009 11:05	0.1	0.1	0.1
261	06/12/2009 11:06	0.1	0.1	0.1
262	06/12/2009 11:07	0.1	0.1	0.1
263	06/12/2009 11:08	0.1	0.1	0.1
264	06/12/2009 11:09	0.1	0.1	0.2
265	06/12/2009 11:10	0.1	0.1	0.1
266	06/12/2009 11:11	0.1	0.1	0.1
267	06/12/2009 11:12	0.1	0.1	0.1
268	06/12/2009 11:13	0.1	0.1	0.1
269	06/12/2009 11:14	0.1	0.1	0.1
270	06/12/2009 11:15	0.1	0.1	0.1
271	06/12/2009 11:16	0.1	0.1	0.1
272	06/12/2009 11:17	0.1	0.1	0.1
273	06/12/2009 11:18	0.1	0.1	0.1
274	06/12/2009 11:19	0.1	0.1	0.1
275	06/12/2009 11:20	0.1	0.1	0.1
276	06/12/2009 11:21	0.1	0.1	0.1
277	06/12/2009 11:22	0.1	0.1	0.2
278	06/12/2009 11:23	0.1	0.1	0.1
279	06/12/2009 11:24	0.1	0.1	0.2
280	06/12/2009 11:25	0.1	0.1	0.2
281	06/12/2009 11:26	0.1	0.1	0.1
282	06/12/2009 11:27	0.1	0.1	0.1
283	06/12/2009 11:28	0.1	0.1	0.2
284	06/12/2009 11:29	0.1	0.1	0.2
285	06/12/2009 11:30	0.1	0.1	0.1
286	06/12/2009 11:31	0.1	0.1	0.1
287	06/12/2009 11:32	0.1	0.1	0.2
288	06/12/2009 11:33	0.1	0.1	0.2
289	06/12/2009 11:34	0.1	0.1	0.2
290	06/12/2009 11:35	0.1	0.1	0.2
291	06/12/2009 11:36	0.1	0.1	0.2
292	06/12/2009 11:37	0.1	0.1	0.2
293	06/12/2009 11:38	0.1	0.1	0.2
294	06/12/2009 11:39	0.1	0.1	0.2
295	06/12/2009 11:40	0.1	0.1	0.2
296	06/12/2009 11:41	0.1	0.1	0.2
297	06/12/2009 11:42	0.1	0.1	0.2
298	06/12/2009 11:43	0.1	0.1	0.2
299	06/12/2009 11:44	0.1	0.1	0.2
300	06/12/2009 11:45	0.1	0.1	0.2
301	06/12/2009 11:46	0.1	0.1	0.2

302	06/12/2009 11:47	0.1	0.1	0.2
303	06/12/2009 11:48	0.1	0.1	0.2
304	06/12/2009 11:49	0.1	0.1	0.2
305	06/12/2009 11:50	0.1	0.1	0.2
306	06/12/2009 11:51	0.1	0.1	0.2
307	06/12/2009 11:52	0.1	0.1	0.2
308	06/12/2009 11:53	0.1	0.1	0.2
309	06/12/2009 11:54	0.1	0.1	0.2
310	06/12/2009 11:55	0.1	0.1	0.2
311	06/12/2009 11:56	0.1	0.1	0.2
312	06/12/2009 11:57	0.1	0.1	0.2
313	06/12/2009 11:58	0.1	0.1	0.2
314	06/12/2009 11:59	0.1	0.1	0.2
315	06/12/2009 12:00	0.1	0.1	0.2
316	06/12/2009 12:01	0.1	0.1	0.2
317	06/12/2009 12:02	0.2	0.2	0.2
318	06/12/2009 12:03	0.2	0.2	0.2
319	06/12/2009 12:04	0.2	0.2	0.2
320	06/12/2009 12:05	0.1	0.1	0.2
321	06/12/2009 12:06	0.1	0.1	0.2
322	06/12/2009 12:07	0.2	0.2	0.2
323	06/12/2009 12:08	0.2	0.2	0.2
324	06/12/2009 12:09	0.2	0.2	0.2
325	06/12/2009 12:10	0.2	0.2	0.2
326	06/12/2009 12:11	0.2	0.2	0.2
327	06/12/2009 12:12	0.2	0.2	0.2
328	06/12/2009 12:13	0.2	0.2	0.2
329	06/12/2009 12:14	0.2	0.2	0.2
330	06/12/2009 12:15	0.2	0.2	0.2
331	06/12/2009 12:16	0.2	0.2	0.2
332	06/12/2009 12:17	0.2	0.2	0.2
333	06/12/2009 12:18	0.2	0.2	0.2
334	06/12/2009 12:19	0.2	0.2	0.2
335	06/12/2009 12:20	0.2	0.2	0.2
336	06/12/2009 12:21	0.2	0.2	0.2
337	06/12/2009 12:22	0.2	0.2	0.2
338	06/12/2009 12:23	0.2	0.2	0.2
339	06/12/2009 12:24	0.2	0.2	0.2
340	06/12/2009 12:25	0.2	0.2	0.2
341	06/12/2009 12:26	0.2	0.2	0.2
342	06/12/2009 12:27	0.2	0.2	0.2
343	06/12/2009 12:28	0.2	0.2	0.2
344	06/12/2009 12:29	0.2	0.2	0.2
345	06/12/2009 12:30	0.2	0.2	0.2
346	06/12/2009 12:31	0.2	0.2	0.2
347	06/12/2009 12:32	0.2	0.2	0.2
348	06/12/2009 12:33	0.2	0.2	0.2
349	06/12/2009 12:34	0.2	0.2	0.2
350	06/12/2009 12:35	0.2	0.2	0.2
351	06/12/2009 12:36	0.2	0.2	0.2
352	06/12/2009 12:37	0.2	0.2	0.2
353	06/12/2009 12:38	0.2	0.2	0.2



354	06/12/2009 12:39	0.2	0.2	0.2
355	06/12/2009 12:40	0.2	0.2	0.2
356	06/12/2009 12:41	0.2	0.2	0.2
357	06/12/2009 12:42	0.2	0.2	0.2
358	06/12/2009 12:43	0.2	0.2	0.2
359	06/12/2009 12:44	0.2	0.2	0.2
360	06/12/2009 12:45	0.2	0.2	0.2
361	06/12/2009 12:46	0.2	0.2	0.2
362	06/12/2009 12:47	0.2	0.2	0.2
363	06/12/2009 12:48	0.2	0.2	0.2
364	06/12/2009 12:49	0.2	0.2	0.2
365	06/12/2009 12:50	0.2	0.2	0.2
366	06/12/2009 12:51	0.2	0.2	0.2
367	06/12/2009 12:52	0.2	0.2	0.2
368	06/12/2009 12:53	0.2	0.2	0.2
369	06/12/2009 12:54	0.2	0.2	0.2
370	06/12/2009 12:55	0.2	0.2	0.2
371	06/12/2009 12:56	0.2	0.2	0.2
372	06/12/2009 12:57	0.2	0.2	0.2
373	06/12/2009 12:58	0.2	0.2	0.2
374	06/12/2009 12:59	0.2	0.2	0.2
375	06/12/2009 13:00	0.2	0.2	0.2
376	06/12/2009 13:01	0.2	0.2	0.2
377	06/12/2009 13:02	0.2	0.2	0.2
378	06/12/2009 13:03	0.2	0.2	0.2
379	06/12/2009 13:04	0.2	0.2	0.2
380	06/12/2009 13:05	0.2	0.2	0.2
381	06/12/2009 13:06	0.2	0.2	0.2
382	06/12/2009 13:07	0.2	0.2	0.2
383	06/12/2009 13:08	0.2	0.2	0.2
384	06/12/2009 13:09	0.2	0.2	0.2
385	06/12/2009 13:10	0.2	0.2	0.2
386	06/12/2009 13:11	0.2	0.2	0.2
387	06/12/2009 13:12	0.2	0.2	0.2
388	06/12/2009 13:13	0.2	0.2	0.2
389	06/12/2009 13:14	0.2	0.2	0.2
390	06/12/2009 13:15	0.2	0.2	0.2
391	06/12/2009 13:16	0.2	0.2	0.2
392	06/12/2009 13:17	0.2	0.2	0.2
393	06/12/2009 13:18	0.2	0.2	0.2
394	06/12/2009 13:19	0.2	0.2	0.2
395	06/12/2009 13:20	0.2	0.2	0.2
396	06/12/2009 13:21	0.2	0.2	0.3
397	06/12/2009 13:22	0.2	0.2	0.3
398	06/12/2009 13:23	0.2	0.2	0.2
399	06/12/2009 13:24	0.2	0.2	0.2
400	06/12/2009 13:25	0.2	0.2	0.2
401	06/12/2009 13:26	0.2	0.2	0.2
402	06/12/2009 13:27	0.2	0.2	0.2
403	06/12/2009 13:28	0.2	0.2	0.2
404	06/12/2009 13:29	0.2	0.2	0.2
405	06/12/2009 13:30	0.2	0.2	0.2

406	06/12/2009 13:31	0.2	0.2	0.2
407	06/12/2009 13:32	0.2	0.2	0.2
408	06/12/2009 13:33	0.2	0.2	0.2
409	06/12/2009 13:34	0.2	0.2	0.2
410	06/12/2009 13:35	0.2	0.2	0.2
411	06/12/2009 13:36	0.2	0.2	0.2
412	06/12/2009 13:37	0.2	0.2	0.2
413	06/12/2009 13:38	0.2	0.2	0.2
414	06/12/2009 13:39	0.2	0.2	0.2
415	06/12/2009 13:40	0.2	0.2	0.2
416	06/12/2009 13:41	0.2	0.2	0.2
417	06/12/2009 13:42	0.2	0.2	0.2
418	06/12/2009 13:43	0.2	0.2	0.2
419	06/12/2009 13:44	0.2	0.2	0.2
420	06/12/2009 13:45	0.2	0.2	0.2
421	06/12/2009 13:46	0.2	0.2	0.2
422	06/12/2009 13:47	0.2	0.2	0.3
423	06/12/2009 13:48	0.2	0.2	0.3
424	06/12/2009 13:49	0.2	0.2	0.3
425	06/12/2009 13:50	0.2	0.2	0.3
426	06/12/2009 13:51	0.2	0.2	0.2
427	06/12/2009 13:52	0.2	0.2	0.3
428	06/12/2009 13:53	0.2	0.2	0.3
429	06/12/2009 13:54	0.2	0.2	0.3
430	06/12/2009 13:55	0.2	0.2	0.3
431	06/12/2009 13:56	0.2	0.3	0.4
432	06/12/2009 13:57	0.2	0.3	0.4
433	06/12/2009 13:58	0.2	0.2	0.3
434	06/12/2009 13:59	0.2	0.2	0.3
435	06/12/2009 14:00	0.2	0.2	0.3
436	06/12/2009 14:01	0.2	0.2	0.3
437	06/12/2009 14:02	0.2	0.2	0.3
438	06/12/2009 14:03	0.2	0.2	0.3
439	06/12/2009 14:04	0.2	0.2	0.3
440	06/12/2009 14:05	0.2	0.2	0.3
441	06/12/2009 14:06	0.2	0.2	0.3
442	06/12/2009 14:07	0.2	0.2	0.3
443	06/12/2009 14:08	0.2	0.2	0.3
444	06/12/2009 14:09	0.2	0.2	0.3
445	06/12/2009 14:10	0.2	0.2	0.3
446	06/12/2009 14:11	0.2	0.2	0.3
447	06/12/2009 14:12	0.2	0.2	0.3
448	06/12/2009 14:13	0.2	0.2	0.3
449	06/12/2009 14:14	0.2	0.2	0.3
450	06/12/2009 14:15	0.2	0.2	0.3
451	06/12/2009 14:16	0.2	0.2	0.3
452	06/12/2009 14:17	0.2	0.2	0.3
453	06/12/2009 14:18	0.2	0.2	0.3
454	06/12/2009 14:19	0.2	0.2	0.3
455	06/12/2009 14:20	0.2	0.2	0.3
456	06/12/2009 14:21	0.2	0.2	0.3
457	06/12/2009 14:22	0.2	0.2	0.3

458	06/12/2009 14:23	0.2	0.2	0.3
459	06/12/2009 14:24	0.2	0.2	0.3
460	06/12/2009 14:25	0.2	0.2	0.3
461	06/12/2009 14:26	0.2	0.2	0.3
462	06/12/2009 14:27	0.2	0.2	0.3
463	06/12/2009 14:28	0.2	0.2	0.3
464	06/12/2009 14:29	0.2	0.2	0.3
465	06/12/2009 14:30	0.2	0.2	0.3
466	06/12/2009 14:31	0.2	0.2	0.3
467	06/12/2009 14:32	0.2	0.2	0.3
468	06/12/2009 14:33	0.2	0.2	0.3
469	06/12/2009 14:34	0.2	0.2	0.3
470	06/12/2009 14:35	0.2	0.2	0.3
471	06/12/2009 14:36	0.2	0.2	0.3
472	06/12/2009 14:37	0.2	0.2	0.3
473	06/12/2009 14:38	0.2	0.2	0.3
474	06/12/2009 14:39	0.2	0.2	0.3
475	06/12/2009 14:40	0.2	0.2	0.3
476	06/12/2009 14:41	0.2	0.2	0.3
477	06/12/2009 14:42	0.2	0.2	0.3
478	06/12/2009 14:43	0.2	0.2	0.3
479	06/12/2009 14:44	0.2	0.2	0.3
480	06/12/2009 14:45	0.2	0.2	0.3
481	06/12/2009 14:46	0.2	0.2	0.3
482	06/12/2009 14:47	0.2	0.2	0.2
483	06/12/2009 14:48	0.2	0.2	0.3
484	06/12/2009 14:49	0.2	0.2	0.3
485	06/12/2009 14:50	0.2	0.2	0.2
486	06/12/2009 14:51	0.2	0.2	0.3
487	06/12/2009 14:52	0.2	0.2	0.3
488	06/12/2009 14:53	0.2	0.2	0.3
489	06/12/2009 14:54	0.2	0.2	0.3
490	06/12/2009 14:55	0.2	0.2	0.3
491	06/12/2009 14:56	0.2	0.2	0.3
492	06/12/2009 14:57	0.2	0.2	0.3
493	06/12/2009 14:58	0.2	0.2	0.3
494	06/12/2009 14:59	0.2	0.2	0.3
495	06/12/2009 15:00	0.2	0.2	0.3
496	06/12/2009 15:01	0.2	0.2	0.3
497	06/12/2009 15:02	0.2	0.2	0.3
498	06/12/2009 15:03	0.2	0.2	0.3
499	06/12/2009 15:04	0.2	0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 503 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/12/2009 06:42      0.0      0.0      0.0
2 06/12/2009 06:43      0.0      0.0      0.0
3 06/12/2009 06:44      0.0      0.0      0.0
4 06/12/2009 06:45      0.0      0.0      0.0
5 06/12/2009 06:46      0.0      0.0      0.0
6 06/12/2009 06:47      0.0      0.0      0.0
7 06/12/2009 06:48      0.0      0.0      0.0
8 06/12/2009 06:49      0.0      0.0      0.0
9 06/12/2009 06:50      0.0      0.0      0.0
10 06/12/2009 06:51      0.0      0.0      0.0
11 06/12/2009 06:52      0.0      0.0      0.0
12 06/12/2009 06:53      0.0      0.0      0.0
13 06/12/2009 06:54      0.0      0.0      0.0
14 06/12/2009 06:55      0.0      0.0      0.0
15 06/12/2009 06:56      0.0      0.0      0.0
16 06/12/2009 06:57      0.0      0.0      0.0
17 06/12/2009 06:58      0.0      0.0      0.0
18 06/12/2009 06:59      0.0      0.0      0.0
19 06/12/2009 07:00      0.0      0.0      0.0
20 06/12/2009 07:01      0.0      0.0      0.0
21 06/12/2009 07:02      0.0      0.0      0.0
22 06/12/2009 07:03      0.0      0.0      0.0
23 06/12/2009 07:04      0.0      0.0      0.0
24 06/12/2009 07:05      0.0      0.0      0.0
25 06/12/2009 07:06      0.0      0.0      0.0
26 06/12/2009 07:07      0.0      0.0      0.0
27 06/12/2009 07:08      0.0      0.0      0.0
28 06/12/2009 07:09      0.0      0.0      0.0
29 06/12/2009 07:10      0.0      0.0      0.0
30 06/12/2009 07:11      0.0      0.0      0.0
31 06/12/2009 07:12      0.0      0.0      0.0
32 06/12/2009 07:13      0.0      0.0      0.0
33 06/12/2009 07:14      0.0      0.0      0.2
34 06/12/2009 07:15      0.0      0.0      0.1
35 06/12/2009 07:16      0.0      0.0      0.1
36 06/12/2009 07:17      0.0      0.0      0.1
37 06/12/2009 07:18      0.0      0.0      0.1
38 06/12/2009 07:19      0.0      0.0      0.1
39 06/12/2009 07:20      0.0      0.0      0.1
40 06/12/2009 07:21      0.0      0.0      0.2
41 06/12/2009 07:22      0.0      0.0      0.2
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42	06/12/2009 07:23	0.0	0.0	0.2
43	06/12/2009 07:24	0.0	0.0	0.1
44	06/12/2009 07:25	0.0	0.0	0.2
45	06/12/2009 07:26	0.0	0.0	0.2
46	06/12/2009 07:27	0.0	0.0	0.2
47	06/12/2009 07:28	0.0	0.0	0.2
48	06/12/2009 07:29	0.0	0.0	0.2
49	06/12/2009 07:30	0.0	0.1	0.2
50	06/12/2009 07:31	0.0	0.1	0.2
51	06/12/2009 07:32	0.0	0.0	0.1
52	06/12/2009 07:33	0.0	0.0	0.1
53	06/12/2009 07:34	0.0	0.0	0.2
54	06/12/2009 07:35	0.0	0.0	0.1
55	06/12/2009 07:36	0.0	0.0	0.1
56	06/12/2009 07:37	0.0	0.0	0.2
57	06/12/2009 07:38	0.0	0.0	0.1
58	06/12/2009 07:39	0.0	0.0	0.1
59	06/12/2009 07:40	0.0	0.0	0.2
60	06/12/2009 07:41	0.0	0.1	0.2
61	06/12/2009 07:42	0.1	0.1	0.2
62	06/12/2009 07:43	0.1	0.1	0.2
63	06/12/2009 07:44	0.1	0.1	0.2
64	06/12/2009 07:45	0.0	0.1	0.2
65	06/12/2009 07:46	0.0	0.1	0.2
66	06/12/2009 07:47	0.0	0.1	0.2
67	06/12/2009 07:48	0.1	0.1	0.2
68	06/12/2009 07:49	0.1	0.1	0.2
69	06/12/2009 07:50	0.1	0.1	0.2
70	06/12/2009 07:51	0.1	0.1	0.2
71	06/12/2009 07:52	0.1	0.1	0.2
72	06/12/2009 07:53	0.1	0.1	0.3
73	06/12/2009 07:54	0.1	0.1	0.2
74	06/12/2009 07:55	0.1	0.1	0.2
75	06/12/2009 07:56	0.1	0.1	0.3
76	06/12/2009 07:57	0.1	0.1	0.2
77	06/12/2009 07:58	0.1	0.2	0.3
78	06/12/2009 07:59	0.1	0.2	0.3
79	06/12/2009 08:00	0.2	0.2	0.3
80	06/12/2009 08:01	0.2	0.2	0.3
81	06/12/2009 08:02	0.2	0.2	0.3
82	06/12/2009 08:03	0.2	0.2	0.3
83	06/12/2009 08:04	0.2	0.2	0.3
84	06/12/2009 08:05	0.2	0.2	0.3
85	06/12/2009 08:06	0.2	0.2	0.3
86	06/12/2009 08:07	0.2	0.2	0.4
87	06/12/2009 08:08	0.2	0.2	0.3
88	06/12/2009 08:09	0.2	0.2	0.3
89	06/12/2009 08:10	0.2	0.2	0.3
90	06/12/2009 08:11	0.2	0.2	0.3
91	06/12/2009 08:12	0.2	0.2	0.3
92	06/12/2009 08:13	0.2	0.2	0.3
93	06/12/2009 08:14	0.2	0.2	0.3

94	06/12/2009 08:15	0.3	0.3	0.4
95	06/12/2009 08:16	0.2	0.3	0.4
96	06/12/2009 08:17	0.2	0.3	0.4
97	06/12/2009 08:18	0.3	0.3	0.4
98	06/12/2009 08:19	0.3	0.3	0.4
99	06/12/2009 08:20	0.3	0.3	0.4
100	06/12/2009 08:21	0.2	0.3	0.4
101	06/12/2009 08:22	0.2	0.2	0.4
102	06/12/2009 08:23	0.2	0.2	0.3
103	06/12/2009 08:24	0.2	0.3	0.4
104	06/12/2009 08:25	0.2	0.3	0.4
105	06/12/2009 08:26	0.2	0.3	0.4
106	06/12/2009 08:27	0.2	0.2	0.4
107	06/12/2009 08:28	0.2	0.3	0.4
108	06/12/2009 08:29	0.2	0.3	0.4
109	06/12/2009 08:30	0.2	0.2	0.4
110	06/12/2009 08:31	0.2	0.2	0.3
111	06/12/2009 08:32	0.2	0.2	0.3
112	06/12/2009 08:33	0.2	0.2	0.4
113	06/12/2009 08:34	0.2	0.3	0.4
114	06/12/2009 08:35	0.3	0.3	0.4
115	06/12/2009 08:36	0.3	0.3	0.4
116	06/12/2009 08:37	0.2	0.3	0.4
117	06/12/2009 08:38	0.2	0.3	0.4
118	06/12/2009 08:39	0.2	0.2	0.4
119	06/12/2009 08:40	0.2	0.2	0.3
120	06/12/2009 08:41	0.2	0.2	0.4
121	06/12/2009 08:42	0.2	0.3	0.4
122	06/12/2009 08:43	0.2	0.2	0.4
123	06/12/2009 08:44	0.2	0.2	0.4
124	06/12/2009 08:45	0.3	0.3	0.4
125	06/12/2009 08:46	0.2	0.2	0.3
126	06/12/2009 08:47	0.2	0.2	0.3
127	06/12/2009 08:48	0.2	0.2	0.3
128	06/12/2009 08:49	0.2	0.2	0.3
129	06/12/2009 08:50	0.2	0.2	0.3
130	06/12/2009 08:51	0.2	0.2	0.3
131	06/12/2009 08:52	0.2	0.2	0.3
132	06/12/2009 08:53	0.2	0.2	0.3
133	06/12/2009 08:54	0.2	0.2	0.3
134	06/12/2009 08:55	0.2	0.2	0.3
135	06/12/2009 08:56	0.2	0.2	0.4
136	06/12/2009 08:57	0.2	0.2	0.3
137	06/12/2009 08:58	0.2	0.2	0.3
138	06/12/2009 08:59	0.2	0.2	0.4
139	06/12/2009 09:00	0.2	0.2	0.4
140	06/12/2009 09:01	0.2	0.2	0.3
141	06/12/2009 09:02	0.2	0.2	0.4
142	06/12/2009 09:03	0.2	0.2	0.4
143	06/12/2009 09:04	0.2	0.2	0.4
144	06/12/2009 09:05	0.2	0.2	0.3
145	06/12/2009 09:06	0.2	0.2	0.3

146	06/12/2009 09:07	0.2	0.2	0.4
147	06/12/2009 09:08	0.2	0.2	0.4
148	06/12/2009 09:09	0.2	0.2	0.3
149	06/12/2009 09:10	0.2	0.2	0.3
150	06/12/2009 09:11	0.2	0.2	0.4
151	06/12/2009 09:12	0.2	0.2	0.3
152	06/12/2009 09:13	0.2	0.2	0.3
153	06/12/2009 09:14	0.2	0.2	0.3
154	06/12/2009 09:15	0.2	0.2	0.3
155	06/12/2009 09:16	0.2	0.2	0.3
156	06/12/2009 09:17	0.2	0.2	0.3
157	06/12/2009 09:18	0.2	0.2	0.3
158	06/12/2009 09:19	0.2	0.2	0.3
159	06/12/2009 09:20	0.2	0.2	0.3
160	06/12/2009 09:21	0.2	0.2	0.3
161	06/12/2009 09:22	0.2	0.2	0.3
162	06/12/2009 09:23	0.2	0.2	0.3
163	06/12/2009 09:24	0.2	0.2	0.3
164	06/12/2009 09:25	0.2	0.2	0.3
165	06/12/2009 09:26	0.2	0.2	0.3
166	06/12/2009 09:27	0.2	0.2	0.3
167	06/12/2009 09:28	0.2	0.2	0.3
168	06/12/2009 09:29	0.2	0.2	0.3
169	06/12/2009 09:30	0.2	0.2	0.3
170	06/12/2009 09:31	0.2	0.2	0.3
171	06/12/2009 09:32	0.2	0.2	0.3
172	06/12/2009 09:33	0.2	0.2	0.3
173	06/12/2009 09:34	0.2	0.2	0.4
174	06/12/2009 09:35	0.2	0.2	0.3
175	06/12/2009 09:36	0.2	0.2	0.3
176	06/12/2009 09:37	0.2	0.2	0.4
177	06/12/2009 09:38	0.2	0.2	0.3
178	06/12/2009 09:39	0.2	0.2	0.4
179	06/12/2009 09:40	0.2	0.2	0.3
180	06/12/2009 09:41	0.2	0.2	0.3
181	06/12/2009 09:42	0.2	0.2	0.4
182	06/12/2009 09:43	0.2	0.3	0.4
183	06/12/2009 09:44	0.2	0.2	0.4
184	06/12/2009 09:45	0.2	0.2	0.4
185	06/12/2009 09:46	0.2	0.2	0.4
186	06/12/2009 09:47	0.2	0.2	0.4
187	06/12/2009 09:48	0.2	0.2	0.3
188	06/12/2009 09:49	0.2	0.2	0.3
189	06/12/2009 09:50	0.2	0.2	0.3
190	06/12/2009 09:51	0.2	0.2	0.4
191	06/12/2009 09:52	0.2	0.2	0.3
192	06/12/2009 09:53	0.2	0.2	0.3
193	06/12/2009 09:54	0.2	0.2	0.4
194	06/12/2009 09:55	0.2	0.2	0.4
195	06/12/2009 09:56	0.2	0.2	0.3
196	06/12/2009 09:57	0.2	0.2	0.3
197	06/12/2009 09:58	0.2	0.2	0.3

198	06/12/2009 09:59	0.2	0.2	0.3
199	06/12/2009 10:00	0.2	0.2	0.3
200	06/12/2009 10:01	0.2	0.2	0.4
201	06/12/2009 10:02	0.2	0.2	0.4
202	06/12/2009 10:03	0.2	0.2	0.3
203	06/12/2009 10:04	0.2	0.3	0.4
204	06/12/2009 10:05	0.2	0.2	0.3
205	06/12/2009 10:06	0.2	0.3	0.4
206	06/12/2009 10:07	0.2	0.2	0.4
207	06/12/2009 10:08	0.2	0.2	0.4
208	06/12/2009 10:09	0.2	0.2	0.4
209	06/12/2009 10:10	0.2	0.2	0.4
210	06/12/2009 10:11	0.2	0.2	0.4
211	06/12/2009 10:12	0.2	0.2	0.3
212	06/12/2009 10:13	0.2	0.2	0.3
213	06/12/2009 10:14	0.2	0.2	0.3
214	06/12/2009 10:15	0.2	0.2	0.3
215	06/12/2009 10:16	0.2	0.2	0.4
216	06/12/2009 10:17	0.2	0.2	0.3
217	06/12/2009 10:18	0.2	0.2	0.3
218	06/12/2009 10:19	0.2	0.2	0.4
219	06/12/2009 10:20	0.2	0.2	0.3
220	06/12/2009 10:21	0.2	0.2	0.3
221	06/12/2009 10:22	0.2	0.2	0.3
222	06/12/2009 10:23	0.2	0.2	0.4
223	06/12/2009 10:24	0.2	0.2	0.3
224	06/12/2009 10:25	0.2	0.2	0.3
225	06/12/2009 10:26	0.2	0.2	0.3
226	06/12/2009 10:27	0.2	0.2	0.3
227	06/12/2009 10:28	0.2	0.2	0.3
228	06/12/2009 10:29	0.2	0.2	0.3
229	06/12/2009 10:30	0.2	0.2	0.3
230	06/12/2009 10:31	0.2	0.2	0.3
231	06/12/2009 10:32	0.2	0.2	0.3
232	06/12/2009 10:33	0.2	0.2	0.3
233	06/12/2009 10:34	0.2	0.2	0.3
234	06/12/2009 10:35	0.2	0.2	0.3
235	06/12/2009 10:36	0.2	0.2	0.3
236	06/12/2009 10:37	0.2	0.2	0.3
237	06/12/2009 10:38	0.2	0.2	0.3
238	06/12/2009 10:39	0.2	0.2	0.4
239	06/12/2009 10:40	0.2	0.2	0.3
240	06/12/2009 10:41	0.2	0.2	0.3
241	06/12/2009 10:42	0.2	0.2	0.3
242	06/12/2009 10:43	0.2	0.2	0.4
243	06/12/2009 10:44	0.2	0.2	0.3
244	06/12/2009 10:45	0.2	0.2	0.3
245	06/12/2009 10:46	0.2	0.2	0.3
246	06/12/2009 10:47	0.2	0.2	0.3
247	06/12/2009 10:48	0.2	0.2	0.4
248	06/12/2009 10:49	0.2	0.2	0.3
249	06/12/2009 10:50	0.2	0.2	0.4



250	06/12/2009 10:51	0.2	0.2	0.4
251	06/12/2009 10:52	0.2	0.2	0.3
252	06/12/2009 10:53	0.2	0.2	0.3
253	06/12/2009 10:54	0.2	0.2	0.3
254	06/12/2009 10:55	0.2	0.2	0.4
255	06/12/2009 10:56	0.2	0.2	0.3
256	06/12/2009 10:57	0.2	0.2	0.3
257	06/12/2009 10:58	0.2	0.2	0.3
258	06/12/2009 10:59	0.2	0.2	0.3
259	06/12/2009 11:00	0.2	0.2	0.3
260	06/12/2009 11:01	0.2	0.2	0.3
261	06/12/2009 11:02	0.2	0.2	0.4
262	06/12/2009 11:03	0.2	0.2	0.3
263	06/12/2009 11:04	0.2	0.2	0.4
264	06/12/2009 11:05	0.2	0.2	0.3
265	06/12/2009 11:06	0.2	0.2	0.4
266	06/12/2009 11:07	0.2	0.2	0.3
267	06/12/2009 11:08	0.2	0.2	0.4
268	06/12/2009 11:09	0.2	0.2	0.3
269	06/12/2009 11:10	0.2	0.2	0.4
270	06/12/2009 11:11	0.2	0.2	0.4
271	06/12/2009 11:12	0.2	0.2	0.3
272	06/12/2009 11:13	0.2	0.2	0.3
273	06/12/2009 11:14	0.2	0.2	0.3
274	06/12/2009 11:15	0.2	0.2	0.4
275	06/12/2009 11:16	0.2	0.2	0.3
276	06/12/2009 11:17	0.2	0.2	0.3
277	06/12/2009 11:18	0.2	0.2	0.3
278	06/12/2009 11:19	0.2	0.2	0.4
279	06/12/2009 11:20	0.2	0.2	0.3
280	06/12/2009 11:21	0.2	0.2	0.3
281	06/12/2009 11:22	0.2	0.2	0.4
282	06/12/2009 11:23	0.2	0.2	0.3
283	06/12/2009 11:24	0.2	0.2	0.4
284	06/12/2009 11:25	0.2	0.2	0.4
285	06/12/2009 11:26	0.2	0.2	0.4
286	06/12/2009 11:27	0.2	0.2	0.4
287	06/12/2009 11:28	0.2	0.2	0.3
288	06/12/2009 11:29	0.2	0.2	0.4
289	06/12/2009 11:30	0.2	0.2	0.3
290	06/12/2009 11:31	0.2	0.2	0.3
291	06/12/2009 11:32	0.2	0.2	0.4
292	06/12/2009 11:33	0.2	0.2	0.3
293	06/12/2009 11:34	0.2	0.2	0.4
294	06/12/2009 11:35	0.2	0.2	0.3
295	06/12/2009 11:36	0.2	0.2	0.3
296	06/12/2009 11:37	0.2	0.2	0.3
297	06/12/2009 11:38	0.2	0.2	0.4
298	06/12/2009 11:39	0.2	0.2	0.4
299	06/12/2009 11:40	0.2	0.2	0.4
300	06/12/2009 11:41	0.2	0.2	0.3
301	06/12/2009 11:42	0.2	0.2	0.4

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303	06/12/2009 11:44	0.2	0.2	0.4
304	06/12/2009 11:45	0.2	0.2	0.3
305	06/12/2009 11:46	0.2	0.2	0.3
306	06/12/2009 11:47	0.2	0.2	0.3
307	06/12/2009 11:48	0.2	0.2	0.4
308	06/12/2009 11:49	0.2	0.2	0.3
309	06/12/2009 11:50	0.2	0.2	0.3
310	06/12/2009 11:51	0.2	0.2	0.3
311	06/12/2009 11:52	0.2	0.2	0.3
312	06/12/2009 11:53	0.2	0.2	0.3
313	06/12/2009 11:54	0.2	0.2	0.4
314	06/12/2009 11:55	0.2	0.2	0.3
315	06/12/2009 11:56	0.2	0.2	0.3
316	06/12/2009 11:57	0.2	0.2	0.4
317	06/12/2009 11:58	0.2	0.2	0.4
318	06/12/2009 11:59	0.2	0.2	0.3
319	06/12/2009 12:00	0.2	0.2	0.4
320	06/12/2009 12:01	0.2	0.2	0.3
321	06/12/2009 12:02	0.2	0.2	0.3
322	06/12/2009 12:03	0.2	0.2	0.3
323	06/12/2009 12:04	0.2	0.2	0.3
324	06/12/2009 12:05	0.2	0.2	0.3
325	06/12/2009 12:06	0.2	0.2	0.4
326	06/12/2009 12:07	0.2	0.2	0.3
327	06/12/2009 12:08	0.2	0.2	0.3
328	06/12/2009 12:09	0.2	0.2	0.4
329	06/12/2009 12:10	0.2	0.2	0.3
330	06/12/2009 12:11	0.2	0.2	0.3
331	06/12/2009 12:12	0.2	0.2	0.3
332	06/12/2009 12:13	0.2	0.2	0.3
333	06/12/2009 12:14	0.2	0.2	0.3
334	06/12/2009 12:15	0.2	0.2	0.3
335	06/12/2009 12:16	0.2	0.2	0.3
336	06/12/2009 12:17	0.2	0.2	0.3
337	06/12/2009 12:18	0.2	0.2	0.3
338	06/12/2009 12:19	0.2	0.2	0.3
339	06/12/2009 12:20	0.2	0.2	0.3
340	06/12/2009 12:21	0.2	0.2	0.3
341	06/12/2009 12:22	0.2	0.2	0.3
342	06/12/2009 12:23	0.2	0.2	0.3
343	06/12/2009 12:24	0.2	0.2	0.3
344	06/12/2009 12:25	0.2	0.2	0.3
345	06/12/2009 12:26	0.2	0.2	0.3
346	06/12/2009 12:27	0.2	0.2	0.3
347	06/12/2009 12:28	0.2	0.2	0.3
348	06/12/2009 12:29	0.2	0.2	0.3
349	06/12/2009 12:30	0.2	0.2	0.3
350	06/12/2009 12:31	0.2	0.2	0.3
351	06/12/2009 12:32	0.2	0.2	0.4
352	06/12/2009 12:33	0.2	0.2	0.3
353	06/12/2009 12:34	0.1	0.2	0.3

354	06/12/2009 12:35	0.2	0.2	0.3
355	06/12/2009 12:36	0.2	0.2	0.4
356	06/12/2009 12:37	0.2	0.2	0.3
357	06/12/2009 12:38	0.1	0.2	0.3
358	06/12/2009 12:39	0.2	0.2	0.3
359	06/12/2009 12:40	0.2	0.2	0.3
360	06/12/2009 12:41	0.2	0.2	0.3
361	06/12/2009 12:42	0.1	0.2	0.3
362	06/12/2009 12:43	0.2	0.2	0.3
363	06/12/2009 12:44	0.2	0.2	0.3
364	06/12/2009 12:45	0.2	0.2	0.3
365	06/12/2009 12:46	0.2	0.2	0.3
366	06/12/2009 12:47	0.2	0.2	0.3
367	06/12/2009 12:48	0.2	0.2	0.3
368	06/12/2009 12:49	0.2	0.2	0.3
369	06/12/2009 12:50	0.2	0.2	0.3
370	06/12/2009 12:51	0.2	0.2	0.3
371	06/12/2009 12:52	0.2	0.2	0.3
372	06/12/2009 12:53	0.1	0.2	0.3
373	06/12/2009 12:54	0.2	0.2	0.3
374	06/12/2009 12:55	0.1	0.2	0.3
375	06/12/2009 12:56	0.1	0.2	0.3
376	06/12/2009 12:57	0.2	0.2	0.3
377	06/12/2009 12:58	0.2	0.2	0.3
378	06/12/2009 12:59	0.2	0.2	0.3
379	06/12/2009 13:00	0.2	0.2	0.3
380	06/12/2009 13:01	0.1	0.2	0.3
381	06/12/2009 13:02	0.1	0.2	0.3
382	06/12/2009 13:03	0.1	0.2	0.4
383	06/12/2009 13:04	0.0	0.2	0.4
384	06/12/2009 13:05	0.1	0.2	0.3
385	06/12/2009 13:06	0.1	0.2	0.4
386	06/12/2009 13:07	0.1	0.2	0.3
387	06/12/2009 13:08	0.2	0.2	0.3
388	06/12/2009 13:09	0.2	0.2	0.3
389	06/12/2009 13:10	0.2	0.2	0.3
390	06/12/2009 13:11	0.2	0.2	0.3
391	06/12/2009 13:12	0.2	0.2	0.3
392	06/12/2009 13:13	0.1	0.2	0.3
393	06/12/2009 13:14	0.1	0.2	0.3
394	06/12/2009 13:15	0.1	0.2	0.3
395	06/12/2009 13:16	0.1	0.2	0.3
396	06/12/2009 13:17	0.2	0.2	0.3
397	06/12/2009 13:18	0.2	0.2	0.3
398	06/12/2009 13:19	0.1	0.2	0.3
399	06/12/2009 13:20	0.1	0.2	0.3
400	06/12/2009 13:21	0.1	0.2	0.3
401	06/12/2009 13:22	0.2	0.2	0.3
402	06/12/2009 13:23	0.1	0.1	0.3
403	06/12/2009 13:24	0.1	0.2	0.3
404	06/12/2009 13:25	0.1	0.2	0.3
405	06/12/2009 13:26	0.1	0.2	0.3

406	06/12/2009 13:27	0.1	0.2	0.3
407	06/12/2009 13:28	0.1	0.2	0.3
408	06/12/2009 13:29	0.1	0.2	0.4
409	06/12/2009 13:30	0.2	0.2	0.4
410	06/12/2009 13:31	0.1	0.2	0.3
411	06/12/2009 13:32	0.1	0.2	0.3
412	06/12/2009 13:33	0.2	0.2	0.3
413	06/12/2009 13:34	0.2	0.2	0.3
414	06/12/2009 13:35	0.1	0.2	0.3
415	06/12/2009 13:36	0.1	0.2	0.3
416	06/12/2009 13:37	0.1	0.2	0.3
417	06/12/2009 13:38	0.1	0.2	0.3
418	06/12/2009 13:39	0.1	0.2	0.3
419	06/12/2009 13:40	0.1	0.1	0.3
420	06/12/2009 13:41	0.1	0.2	0.3
421	06/12/2009 13:42	0.2	0.2	0.3
422	06/12/2009 13:43	0.2	0.2	0.3
423	06/12/2009 13:44	0.2	0.2	0.3
424	06/12/2009 13:45	0.2	0.2	0.3
425	06/12/2009 13:46	0.2	0.2	0.3
426	06/12/2009 13:47	0.1	0.2	0.3
427	06/12/2009 13:48	0.1	0.2	0.3
428	06/12/2009 13:49	0.1	0.2	0.3
429	06/12/2009 13:50	0.1	0.1	0.3
430	06/12/2009 13:51	0.1	0.1	0.3
431	06/12/2009 13:52	0.1	0.2	0.3
432	06/12/2009 13:53	0.1	0.1	0.3
433	06/12/2009 13:54	0.1	0.2	0.3
434	06/12/2009 13:55	0.1	0.2	0.3
435	06/12/2009 13:56	0.1	0.2	0.3
436	06/12/2009 13:57	0.1	0.1	0.2
437	06/12/2009 13:58	0.1	0.2	0.3
438	06/12/2009 13:59	0.1	0.1	0.3
439	06/12/2009 14:00	0.1	0.1	0.3
440	06/12/2009 14:01	0.1	0.1	0.3
441	06/12/2009 14:02	0.1	0.1	0.3
442	06/12/2009 14:03	0.1	0.1	0.3
443	06/12/2009 14:04	0.1	0.1	0.3
444	06/12/2009 14:05	0.1	0.2	0.3
445	06/12/2009 14:06	0.1	0.2	0.3
446	06/12/2009 14:07	0.1	0.1	0.3
447	06/12/2009 14:08	0.1	0.2	0.3
448	06/12/2009 14:09	0.1	0.1	0.3
449	06/12/2009 14:10	0.1	0.1	0.3
450	06/12/2009 14:11	0.1	0.2	0.3
451	06/12/2009 14:12	0.1	0.1	0.3
452	06/12/2009 14:13	0.1	0.2	0.3
453	06/12/2009 14:14	0.1	0.2	0.3
454	06/12/2009 14:15	0.1	0.2	0.3
455	06/12/2009 14:16	0.2	0.2	0.3
456	06/12/2009 14:17	0.2	0.2	0.3
457	06/12/2009 14:18	0.2	0.2	0.3

458	06/12/2009 14:19	0.1	0.2	0.3
459	06/12/2009 14:20	0.2	0.2	0.3
460	06/12/2009 14:21	0.2	0.2	0.3
461	06/12/2009 14:22	0.1	0.2	0.3
462	06/12/2009 14:23	0.2	0.2	0.3
463	06/12/2009 14:24	0.2	0.2	0.3
464	06/12/2009 14:25	0.1	0.2	0.3
465	06/12/2009 14:26	0.2	0.2	0.3
466	06/12/2009 14:27	0.2	0.2	0.3
467	06/12/2009 14:28	0.2	0.2	0.3
468	06/12/2009 14:29	0.1	0.2	0.3
469	06/12/2009 14:30	0.2	0.2	0.3
470	06/12/2009 14:31	0.1	0.2	0.3
471	06/12/2009 14:32	0.1	0.2	0.3
472	06/12/2009 14:33	0.1	0.2	0.3
473	06/12/2009 14:34	0.1	0.2	0.3
474	06/12/2009 14:35	0.1	0.2	0.3
475	06/12/2009 14:36	0.1	0.2	0.3
476	06/12/2009 14:37	0.1	0.1	0.3
477	06/12/2009 14:38	0.1	0.2	0.3
478	06/12/2009 14:39	0.1	0.1	0.3
479	06/12/2009 14:40	0.1	0.2	0.3
480	06/12/2009 14:41	0.1	0.2	0.3
481	06/12/2009 14:42	0.1	0.1	0.3
482	06/12/2009 14:43	0.1	0.1	0.3
483	06/12/2009 14:44	0.1	0.2	0.3
484	06/12/2009 14:45	0.1	0.1	0.3
485	06/12/2009 14:46	0.2	0.2	0.3
486	06/12/2009 14:47	0.1	0.1	0.3
487	06/12/2009 14:48	0.1	0.2	0.3
488	06/12/2009 14:49	0.1	0.2	0.4
489	06/12/2009 14:50	0.1	0.1	0.3
490	06/12/2009 14:51	0.1	0.1	0.3
491	06/12/2009 14:52	0.1	0.1	0.3
492	06/12/2009 14:53	0.1	0.1	0.3
493	06/12/2009 14:54	0.1	0.1	0.2
494	06/12/2009 14:55	0.1	0.1	0.3
495	06/12/2009 14:56	0.1	0.1	0.3
496	06/12/2009 14:57	0.1	0.1	0.3
497	06/12/2009 14:58	0.1	0.1	0.3
498	06/12/2009 14:59	0.1	0.2	0.3
499	06/12/2009 15:00	0.1	0.1	0.3
500	06/12/2009 15:01	0.1	0.2	0.3
501	06/12/2009 15:02	0.1	0.2	0.3
502	06/12/2009 15:03	0.1	0.2	0.3
503	06/12/2009 15:04	0.1	0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 507 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

1	06/12/2009 06:31	0.0	0.0	0.0
2	06/12/2009 06:32	0.0	0.0	0.0
3	06/12/2009 06:33	0.0	0.0	0.0
4	06/12/2009 06:34	0.0	0.0	0.0
5	06/12/2009 06:35	0.0	0.0	0.0
6	06/12/2009 06:36	0.0	0.0	0.0
7	06/12/2009 06:37	0.0	0.0	0.0
8	06/12/2009 06:38	0.0	0.0	0.0
9	06/12/2009 06:39	0.0	0.0	0.0
10	06/12/2009 06:40	0.0	0.0	0.0
11	06/12/2009 06:41	0.0	0.0	0.0
12	06/12/2009 06:42	0.0	0.0	0.0
13	06/12/2009 06:43	0.0	0.0	0.0
14	06/12/2009 06:44	0.0	0.0	0.0
15	06/12/2009 06:45	0.0	0.0	0.0
16	06/12/2009 06:46	0.0	0.0	0.0
17	06/12/2009 06:47	0.0	0.0	0.0
18	06/12/2009 06:48	0.0	0.0	0.0
19	06/12/2009 06:49	0.0	0.0	0.0
20	06/12/2009 06:50	0.0	0.0	0.0
21	06/12/2009 06:51	0.0	0.0	0.0
22	06/12/2009 06:52	0.0	0.0	0.0
23	06/12/2009 06:53	0.0	0.0	0.0
24	06/12/2009 06:54	0.0	0.0	0.0
25	06/12/2009 06:55	0.0	0.0	0.0
26	06/12/2009 06:56	0.0	0.0	0.0
27	06/12/2009 06:57	0.0	0.0	0.0
28	06/12/2009 06:58	0.0	0.0	0.0
29	06/12/2009 06:59	0.0	0.0	0.0
30	06/12/2009 07:00	0.0	0.0	0.0
31	06/12/2009 07:01	0.0	0.0	0.0
32	06/12/2009 07:02	0.0	0.0	0.0
33	06/12/2009 07:03	0.0	0.0	0.0
34	06/12/2009 07:04	0.0	0.0	0.0
35	06/12/2009 07:05	0.0	0.0	0.0
36	06/12/2009 07:06	0.0	0.0	0.0
37	06/12/2009 07:07	0.0	0.0	0.0
38	06/12/2009 07:08	0.0	0.0	0.0
39	06/12/2009 07:09	0.0	0.0	0.2
40	06/12/2009 07:10	0.0	0.1	0.2
41	06/12/2009 07:11	0.0	0.0	0.2

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=====
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42	06/12/2009 07:12	0.0	0.0	0.1
43	06/12/2009 07:13	0.0	0.0	0.2
44	06/12/2009 07:14	0.0	0.0	0.1
45	06/12/2009 07:15	0.0	0.0	0.1
46	06/12/2009 07:16	0.0	0.0	0.2
47	06/12/2009 07:17	0.0	0.0	0.1
48	06/12/2009 07:18	0.0	0.0	0.2
49	06/12/2009 07:19	0.0	0.0	0.2
50	06/12/2009 07:20	0.0	0.0	0.0
51	06/12/2009 07:21	0.0	0.0	0.1
52	06/12/2009 07:22	0.0	0.0	0.1
53	06/12/2009 07:23	0.0	0.0	0.1
54	06/12/2009 07:24	0.0	0.0	0.1
55	06/12/2009 07:25	0.0	0.0	0.0
56	06/12/2009 07:26	0.0	0.0	0.0
57	06/12/2009 07:27	0.0	0.0	0.0
58	06/12/2009 07:28	0.0	0.0	0.1
59	06/12/2009 07:29	0.0	0.0	0.1
60	06/12/2009 07:30	0.0	0.0	0.1
61	06/12/2009 07:31	0.0	0.0	0.2
62	06/12/2009 07:32	0.0	0.0	0.1
63	06/12/2009 07:33	0.0	0.0	0.1
64	06/12/2009 07:34	0.0	0.0	0.0
65	06/12/2009 07:35	0.0	0.0	0.0
66	06/12/2009 07:36	0.0	0.0	0.0
67	06/12/2009 07:37	0.0	0.0	0.0
68	06/12/2009 07:38	0.0	0.0	0.0
69	06/12/2009 07:39	0.0	0.0	0.0
70	06/12/2009 07:40	0.0	0.0	0.0
71	06/12/2009 07:41	0.0	0.0	0.0
72	06/12/2009 07:42	0.0	0.0	0.1
73	06/12/2009 07:43	0.0	0.0	0.1
74	06/12/2009 07:44	0.0	0.0	0.0
75	06/12/2009 07:45	0.0	0.0	0.1
76	06/12/2009 07:46	0.0	0.0	0.1
77	06/12/2009 07:47	0.0	0.0	0.1
78	06/12/2009 07:48	0.0	0.0	0.2
79	06/12/2009 07:49	0.0	0.0	0.2
80	06/12/2009 07:50	0.0	0.0	0.2
81	06/12/2009 07:51	0.0	0.0	0.2
82	06/12/2009 07:52	0.0	0.1	0.2
83	06/12/2009 07:53	0.0	0.1	0.2
84	06/12/2009 07:54	0.0	0.0	0.2
85	06/12/2009 07:55	0.0	0.0	0.2
86	06/12/2009 07:56	0.0	0.0	0.2
87	06/12/2009 07:57	0.0	0.0	0.1
88	06/12/2009 07:58	0.0	0.0	0.2
89	06/12/2009 07:59	0.0	0.0	0.2
90	06/12/2009 08:00	0.0	0.0	0.2
91	06/12/2009 08:01	0.0	0.0	0.1
92	06/12/2009 08:02	0.0	0.0	0.1
93	06/12/2009 08:03	0.0	0.0	0.2

94	06/12/2009 08:04	0.0	0.1	0.2
95	06/12/2009 08:05	0.0	0.1	0.2
96	06/12/2009 08:06	0.0	0.0	0.2
97	06/12/2009 08:07	0.0	0.0	0.1
98	06/12/2009 08:08	0.0	0.0	0.1
99	06/12/2009 08:09	0.0	0.0	0.2
100	06/12/2009 08:10	0.0	0.1	0.3
101	06/12/2009 08:11	0.0	0.0	0.2
102	06/12/2009 08:12	0.0	0.0	0.0
103	06/12/2009 08:13	0.0	0.0	0.1
104	06/12/2009 08:14	0.0	0.0	0.1
105	06/12/2009 08:15	0.0	0.0	0.1
106	06/12/2009 08:16	0.0	0.0	0.0
107	06/12/2009 08:17	0.0	0.0	0.0
108	06/12/2009 08:18	0.0	0.0	0.1
109	06/12/2009 08:19	0.0	0.0	0.1
110	06/12/2009 08:20	0.0	0.0	0.1
111	06/12/2009 08:21	0.0	0.0	0.0
112	06/12/2009 08:22	0.0	0.0	0.0
113	06/12/2009 08:23	0.0	0.0	0.0
114	06/12/2009 08:24	0.0	0.0	0.0
115	06/12/2009 08:25	0.0	0.0	0.0
116	06/12/2009 08:26	0.0	0.0	0.0
117	06/12/2009 08:27	0.0	0.0	0.0
118	06/12/2009 08:28	0.0	0.0	0.0
119	06/12/2009 08:29	0.0	0.0	0.0
120	06/12/2009 08:30	0.0	0.0	0.0
121	06/12/2009 08:31	0.0	0.0	0.0
122	06/12/2009 08:32	0.0	0.0	0.0
123	06/12/2009 08:33	0.0	0.0	0.0
124	06/12/2009 08:34	0.0	0.0	0.0
125	06/12/2009 08:35	0.0	0.0	0.0
126	06/12/2009 08:36	0.0	0.0	0.0
127	06/12/2009 08:37	0.0	0.0	0.0
128	06/12/2009 08:38	0.0	0.0	0.0
129	06/12/2009 08:39	0.0	0.0	0.0
130	06/12/2009 08:40	0.0	0.0	0.0
131	06/12/2009 08:41	0.0	0.0	0.0
132	06/12/2009 08:42	0.0	0.0	0.0
133	06/12/2009 08:43	0.0	0.0	0.0
134	06/12/2009 08:44	0.0	0.0	0.0
135	06/12/2009 08:45	0.0	0.0	0.0
136	06/12/2009 08:46	0.0	0.0	0.0
137	06/12/2009 08:47	0.0	0.0	0.0
138	06/12/2009 08:48	0.0	0.0	0.0
139	06/12/2009 08:49	0.0	0.0	0.0
140	06/12/2009 08:50	0.0	0.0	0.0
141	06/12/2009 08:51	0.0	0.0	0.0
142	06/12/2009 08:52	0.0	0.0	0.0
143	06/12/2009 08:53	0.0	0.0	0.0
144	06/12/2009 08:54	0.0	0.0	0.0
145	06/12/2009 08:55	0.0	0.0	0.0



146	06/12/2009 08:56	0.0	0.0	0.0
147	06/12/2009 08:57	0.0	0.0	0.0
148	06/12/2009 08:58	0.0	0.0	0.0
149	06/12/2009 08:59	0.0	0.0	0.0
150	06/12/2009 09:00	0.0	0.0	0.0
151	06/12/2009 09:01	0.0	0.0	0.0
152	06/12/2009 09:02	0.0	0.0	0.0
153	06/12/2009 09:03	0.0	0.0	0.0
154	06/12/2009 09:04	0.0	0.0	0.0
155	06/12/2009 09:05	0.0	0.0	0.0
156	06/12/2009 09:06	0.0	0.0	0.0
157	06/12/2009 09:07	0.0	0.0	0.0
158	06/12/2009 09:08	0.0	0.0	0.0
159	06/12/2009 09:09	0.0	0.0	0.0
160	06/12/2009 09:10	0.0	0.0	0.0
161	06/12/2009 09:11	0.0	0.0	0.0
162	06/12/2009 09:12	0.0	0.0	0.0
163	06/12/2009 09:13	0.0	0.0	0.0
164	06/12/2009 09:14	0.0	0.0	0.0
165	06/12/2009 09:15	0.0	0.0	0.0
166	06/12/2009 09:16	0.0	0.0	0.0
167	06/12/2009 09:17	0.0	0.0	0.0
168	06/12/2009 09:18	0.0	0.0	0.0
169	06/12/2009 09:19	0.0	0.0	0.0
170	06/12/2009 09:20	0.0	0.0	0.0
171	06/12/2009 09:21	0.0	0.0	0.0
172	06/12/2009 09:22	0.0	0.0	0.0
173	06/12/2009 09:23	0.0	0.0	0.0
174	06/12/2009 09:24	0.0	0.0	0.0
175	06/12/2009 09:25	0.0	0.0	0.0
176	06/12/2009 09:26	0.0	0.0	0.0
177	06/12/2009 09:27	0.0	0.0	0.0
178	06/12/2009 09:28	0.0	0.0	0.0
179	06/12/2009 09:29	0.0	0.0	0.0
180	06/12/2009 09:30	0.0	0.0	0.0
181	06/12/2009 09:31	0.0	0.0	0.0
182	06/12/2009 09:32	0.0	0.0	0.0
183	06/12/2009 09:33	0.0	0.0	0.3
184	06/12/2009 09:34	0.0	0.0	0.0
185	06/12/2009 09:35	0.0	0.0	0.0
186	06/12/2009 09:36	0.0	0.0	0.0
187	06/12/2009 09:37	0.0	0.0	0.0
188	06/12/2009 09:38	0.0	0.0	0.0
189	06/12/2009 09:39	0.0	0.0	0.0
190	06/12/2009 09:40	0.0	0.0	0.0
191	06/12/2009 09:41	0.0	0.0	0.0
192	06/12/2009 09:42	0.0	0.0	0.0
193	06/12/2009 09:43	0.0	0.0	0.0
194	06/12/2009 09:44	0.0	0.0	0.0
195	06/12/2009 09:45	0.0	0.0	0.0
196	06/12/2009 09:46	0.0	0.0	0.0
197	06/12/2009 09:47	0.0	0.0	0.0

198	06/12/2009 09:48	0.0	0.0	0.0
199	06/12/2009 09:49	0.0	0.0	0.0
200	06/12/2009 09:50	0.0	0.0	0.0
201	06/12/2009 09:51	0.0	0.0	0.0
202	06/12/2009 09:52	0.0	0.0	0.0
203	06/12/2009 09:53	0.0	0.0	0.0
204	06/12/2009 09:54	0.0	0.0	0.0
205	06/12/2009 09:55	0.0	0.0	0.0
206	06/12/2009 09:56	0.0	0.0	0.0
207	06/12/2009 09:57	0.0	0.0	0.0
208	06/12/2009 09:58	0.0	0.0	0.0
209	06/12/2009 09:59	0.0	0.0	0.0
210	06/12/2009 10:00	0.0	0.0	0.0
211	06/12/2009 10:01	0.0	0.0	0.0
212	06/12/2009 10:02	0.0	0.0	0.0
213	06/12/2009 10:03	0.0	0.0	0.0
214	06/12/2009 10:04	0.0	0.0	0.0
215	06/12/2009 10:05	0.0	0.0	0.0
216	06/12/2009 10:06	0.0	0.0	0.0
217	06/12/2009 10:07	0.0	0.0	0.0
218	06/12/2009 10:08	0.0	0.0	0.0
219	06/12/2009 10:09	0.0	0.0	0.0
220	06/12/2009 10:10	0.0	0.0	0.0
221	06/12/2009 10:11	0.0	0.0	0.0
222	06/12/2009 10:12	0.0	0.0	0.0
223	06/12/2009 10:13	0.0	0.0	0.0
224	06/12/2009 10:14	0.0	0.0	0.0
225	06/12/2009 10:15	0.0	0.0	0.0
226	06/12/2009 10:16	0.0	0.0	0.0
227	06/12/2009 10:17	0.0	0.0	0.0
228	06/12/2009 10:18	0.0	0.0	0.0
229	06/12/2009 10:19	0.0	0.0	0.0
230	06/12/2009 10:20	0.0	0.0	0.0
231	06/12/2009 10:21	0.0	0.0	0.0
232	06/12/2009 10:22	0.0	0.0	0.0
233	06/12/2009 10:23	0.0	0.0	0.0
234	06/12/2009 10:24	0.0	0.0	0.0
235	06/12/2009 10:25	0.0	0.0	0.0
236	06/12/2009 10:26	0.0	0.0	0.0
237	06/12/2009 10:27	0.0	0.0	0.0
238	06/12/2009 10:28	0.0	0.0	0.0
239	06/12/2009 10:29	0.0	0.0	0.0
240	06/12/2009 10:30	0.0	0.0	0.0
241	06/12/2009 10:31	0.0	0.0	0.0
242	06/12/2009 10:32	0.0	0.0	0.0
243	06/12/2009 10:33	0.0	0.0	0.0
244	06/12/2009 10:34	0.0	0.0	0.0
245	06/12/2009 10:35	0.0	0.0	0.0
246	06/12/2009 10:36	0.0	0.0	0.0
247	06/12/2009 10:37	0.0	0.0	0.0
248	06/12/2009 10:38	0.0	0.0	0.0
249	06/12/2009 10:39	0.0	0.0	0.0

250	06/12/2009 10:40	0.0	0.0	0.0
251	06/12/2009 10:41	0.0	0.0	0.0
252	06/12/2009 10:42	0.0	0.0	0.0
253	06/12/2009 10:43	0.0	0.0	0.0
254	06/12/2009 10:44	0.0	0.0	0.0
255	06/12/2009 10:45	0.0	0.0	0.0
256	06/12/2009 10:46	0.0	0.0	0.0
257	06/12/2009 10:47	0.0	0.0	0.0
258	06/12/2009 10:48	0.0	0.0	0.0
259	06/12/2009 10:49	0.0	0.0	0.0
260	06/12/2009 10:50	0.0	0.0	0.0
261	06/12/2009 10:51	0.0	0.0	0.0
262	06/12/2009 10:52	0.0	0.0	0.0
263	06/12/2009 10:53	0.0	0.0	0.0
264	06/12/2009 10:54	0.0	0.0	0.0
265	06/12/2009 10:55	0.0	0.0	0.0
266	06/12/2009 10:56	0.0	0.0	0.0
267	06/12/2009 10:57	0.0	0.0	0.0
268	06/12/2009 10:58	0.0	0.0	0.0
269	06/12/2009 10:59	0.0	0.0	0.0
270	06/12/2009 11:00	0.0	0.0	0.0
271	06/12/2009 11:01	0.0	0.0	0.0
272	06/12/2009 11:02	0.0	0.0	0.0
273	06/12/2009 11:03	0.0	0.0	0.0
274	06/12/2009 11:04	0.0	0.0	0.0
275	06/12/2009 11:05	0.0	0.0	0.0
276	06/12/2009 11:06	0.0	0.0	0.0
277	06/12/2009 11:07	0.0	0.0	0.0
278	06/12/2009 11:08	0.0	0.0	0.0
279	06/12/2009 11:09	0.0	0.0	0.0
280	06/12/2009 11:10	0.0	0.0	0.0
281	06/12/2009 11:11	0.0	0.0	0.0
282	06/12/2009 11:12	0.0	0.0	0.0
283	06/12/2009 11:13	0.0	0.0	0.0
284	06/12/2009 11:14	0.0	0.0	0.0
285	06/12/2009 11:15	0.0	0.0	0.0
286	06/12/2009 11:16	0.0	0.0	0.0
287	06/12/2009 11:17	0.0	0.0	0.0
288	06/12/2009 11:18	0.0	0.0	0.0
289	06/12/2009 11:19	0.0	0.0	0.0
290	06/12/2009 11:20	0.0	0.0	0.0
291	06/12/2009 11:21	0.0	0.0	0.0
292	06/12/2009 11:22	0.0	0.0	0.0
293	06/12/2009 11:23	0.0	0.0	0.0
294	06/12/2009 11:24	0.0	0.0	0.0
295	06/12/2009 11:25	0.0	0.0	0.0
296	06/12/2009 11:26	0.0	0.0	0.0
297	06/12/2009 11:27	0.0	0.0	0.0
298	06/12/2009 11:28	0.0	0.0	0.0
299	06/12/2009 11:29	0.0	0.0	0.0
300	06/12/2009 11:30	0.0	0.0	0.0
301	06/12/2009 11:31	0.0	0.0	0.0

302	06/12/2009 11:32	0.0	0.0	0.0
303	06/12/2009 11:33	0.0	0.0	0.0
304	06/12/2009 11:34	0.0	0.0	0.0
305	06/12/2009 11:35	0.0	0.0	0.0
306	06/12/2009 11:36	0.0	0.0	0.0
307	06/12/2009 11:37	0.0	0.0	0.0
308	06/12/2009 11:38	0.0	0.0	0.0
309	06/12/2009 11:39	0.0	0.0	0.0
310	06/12/2009 11:40	0.0	0.0	0.0
311	06/12/2009 11:41	0.0	0.0	0.0
312	06/12/2009 11:42	0.0	0.0	0.0
313	06/12/2009 11:43	0.0	0.0	0.0
314	06/12/2009 11:44	0.0	0.0	0.0
315	06/12/2009 11:45	0.0	0.0	0.0
316	06/12/2009 11:46	0.0	0.0	0.0
317	06/12/2009 11:47	0.0	0.0	0.0
318	06/12/2009 11:48	0.0	0.0	0.0
319	06/12/2009 11:49	0.0	0.0	0.0
320	06/12/2009 11:50	0.0	0.0	0.0
321	06/12/2009 11:51	0.0	0.0	0.0
322	06/12/2009 11:52	0.0	0.0	0.0
323	06/12/2009 11:53	0.0	0.0	0.0
324	06/12/2009 11:54	0.0	0.0	0.0
325	06/12/2009 11:55	0.0	0.0	0.0
326	06/12/2009 11:56	0.0	0.0	0.0
327	06/12/2009 11:57	0.0	0.0	0.0
328	06/12/2009 11:58	0.0	0.0	0.0
329	06/12/2009 11:59	0.0	0.0	0.0
330	06/12/2009 12:00	0.0	0.0	0.0
331	06/12/2009 12:01	0.0	0.0	0.0
332	06/12/2009 12:02	0.0	0.0	0.0
333	06/12/2009 12:03	0.0	0.0	0.0
334	06/12/2009 12:04	0.0	0.0	0.0
335	06/12/2009 12:05	0.0	0.0	0.0
336	06/12/2009 12:06	0.0	0.0	0.0
337	06/12/2009 12:07	0.0	0.0	0.0
338	06/12/2009 12:08	0.0	0.0	0.0
339	06/12/2009 12:09	0.0	0.0	0.0
340	06/12/2009 12:10	0.0	0.0	0.0
341	06/12/2009 12:11	0.0	0.0	0.0
342	06/12/2009 12:12	0.0	0.0	0.0
343	06/12/2009 12:13	0.0	0.0	0.0
344	06/12/2009 12:14	0.0	0.0	0.0
345	06/12/2009 12:15	0.0	0.0	0.0
346	06/12/2009 12:16	0.0	0.0	0.0
347	06/12/2009 12:17	0.0	0.0	0.0
348	06/12/2009 12:18	0.0	0.0	0.0
349	06/12/2009 12:19	0.0	0.0	0.0
350	06/12/2009 12:20	0.0	0.0	0.0
351	06/12/2009 12:21	0.0	0.0	0.0
352	06/12/2009 12:22	0.0	0.0	0.0
353	06/12/2009 12:23	0.0	0.0	0.0

354	06/12/2009 12:24	0.0	0.0	0.0
355	06/12/2009 12:25	0.0	0.0	0.0
356	06/12/2009 12:26	0.0	0.0	0.0
357	06/12/2009 12:27	0.0	0.0	0.0
358	06/12/2009 12:28	0.0	0.0	0.0
359	06/12/2009 12:29	0.0	0.0	0.0
360	06/12/2009 12:30	0.0	0.0	0.0
361	06/12/2009 12:31	0.0	0.0	0.0
362	06/12/2009 12:32	0.0	0.0	0.0
363	06/12/2009 12:33	0.0	0.0	0.0
364	06/12/2009 12:34	0.0	0.0	0.0
365	06/12/2009 12:35	0.0	0.0	0.0
366	06/12/2009 12:36	0.0	0.0	0.0
367	06/12/2009 12:37	0.0	0.0	0.0
368	06/12/2009 12:38	0.0	0.0	0.0
369	06/12/2009 12:39	0.0	0.0	0.0
370	06/12/2009 12:40	0.0	0.0	0.0
371	06/12/2009 12:41	0.0	0.0	0.0
372	06/12/2009 12:42	0.0	0.0	0.0
373	06/12/2009 12:43	0.0	0.0	0.0
374	06/12/2009 12:44	0.0	0.0	0.0
375	06/12/2009 12:45	0.0	0.0	0.0
376	06/12/2009 12:46	0.0	0.0	0.0
377	06/12/2009 12:47	0.0	0.0	0.0
378	06/12/2009 12:48	0.0	0.0	0.0
379	06/12/2009 12:49	0.0	0.0	0.0
380	06/12/2009 12:50	0.0	0.0	0.0
381	06/12/2009 12:51	0.0	0.0	0.0
382	06/12/2009 12:52	0.0	0.0	0.0
383	06/12/2009 12:53	0.0	0.0	0.0
384	06/12/2009 12:54	0.0	0.0	0.0
385	06/12/2009 12:55	0.0	0.0	0.0
386	06/12/2009 12:56	0.0	0.0	0.0
387	06/12/2009 12:57	0.0	0.0	0.0
388	06/12/2009 12:58	0.0	0.0	0.0
389	06/12/2009 12:59	0.0	0.0	0.0
390	06/12/2009 13:00	0.0	0.0	0.0
391	06/12/2009 13:01	0.0	0.0	0.0
392	06/12/2009 13:02	0.0	0.0	0.0
393	06/12/2009 13:03	0.0	0.0	0.0
394	06/12/2009 13:04	0.0	0.0	0.0
395	06/12/2009 13:05	0.0	0.0	0.0
396	06/12/2009 13:06	0.0	0.0	0.0
397	06/12/2009 13:07	0.0	0.0	0.0
398	06/12/2009 13:08	0.0	0.0	0.0
399	06/12/2009 13:09	0.0	0.0	0.0
400	06/12/2009 13:10	0.0	0.0	0.0
401	06/12/2009 13:11	0.0	0.0	0.0
402	06/12/2009 13:12	0.0	0.0	0.0
403	06/12/2009 13:13	0.0	0.0	0.0
404	06/12/2009 13:14	0.0	0.0	0.0
405	06/12/2009 13:15	0.0	0.0	0.0

406	06/12/2009 13:16	0.0	0.0	0.0
407	06/12/2009 13:17	0.0	0.0	0.1
408	06/12/2009 13:18	0.0	0.0	0.0
409	06/12/2009 13:19	0.0	0.0	0.0
410	06/12/2009 13:20	0.0	0.0	0.0
411	06/12/2009 13:21	0.0	0.0	0.0
412	06/12/2009 13:22	0.0	0.0	0.0
413	06/12/2009 13:23	0.0	0.0	0.0
414	06/12/2009 13:24	0.0	0.0	0.0
415	06/12/2009 13:25	0.0	0.0	0.0
416	06/12/2009 13:26	0.0	0.0	0.0
417	06/12/2009 13:27	0.0	0.0	0.0
418	06/12/2009 13:28	0.0	0.0	0.0
419	06/12/2009 13:29	0.0	0.0	0.0
420	06/12/2009 13:30	0.0	0.0	0.0
421	06/12/2009 13:31	0.0	0.0	0.0
422	06/12/2009 13:32	0.0	0.0	0.0
423	06/12/2009 13:33	0.0	0.0	0.0
424	06/12/2009 13:34	0.0	0.0	0.0
425	06/12/2009 13:35	0.0	0.0	0.0
426	06/12/2009 13:36	0.0	0.0	0.0
427	06/12/2009 13:37	0.0	0.0	0.0
428	06/12/2009 13:38	0.0	0.0	0.0
429	06/12/2009 13:39	0.0	0.0	0.0
430	06/12/2009 13:40	0.0	0.0	0.0
431	06/12/2009 13:41	0.0	0.0	0.0
432	06/12/2009 13:42	0.0	0.0	0.0
433	06/12/2009 13:43	0.0	0.0	0.0
434	06/12/2009 13:44	0.0	0.0	0.0
435	06/12/2009 13:45	0.0	0.0	0.0
436	06/12/2009 13:46	0.0	0.0	0.0
437	06/12/2009 13:47	0.0	0.0	0.0
438	06/12/2009 13:48	0.0	0.0	0.0
439	06/12/2009 13:49	0.0	0.0	0.0
440	06/12/2009 13:50	0.0	0.0	0.0
441	06/12/2009 13:51	0.0	0.0	0.0
442	06/12/2009 13:52	0.0	0.0	0.0
443	06/12/2009 13:53	0.0	0.0	0.0
444	06/12/2009 13:54	0.0	0.0	0.0
445	06/12/2009 13:55	0.0	0.0	0.0
446	06/12/2009 13:56	0.0	0.0	0.0
447	06/12/2009 13:57	0.0	0.0	0.0
448	06/12/2009 13:58	0.0	0.0	0.0
449	06/12/2009 13:59	0.0	0.0	0.0
450	06/12/2009 14:00	0.0	0.0	0.0
451	06/12/2009 14:01	0.0	0.0	0.0
452	06/12/2009 14:02	0.0	0.0	0.0
453	06/12/2009 14:03	0.0	0.0	0.0
454	06/12/2009 14:04	0.0	0.0	0.0
455	06/12/2009 14:05	0.0	0.0	0.0
456	06/12/2009 14:06	0.0	0.0	0.0
457	06/12/2009 14:07	0.0	0.0	0.0

458	06/12/2009 14:08	0.0	0.0	0.0
459	06/12/2009 14:09	0.0	0.0	0.0
460	06/12/2009 14:10	0.0	0.0	0.0
461	06/12/2009 14:11	0.0	0.0	0.0
462	06/12/2009 14:12	0.0	0.0	0.0
463	06/12/2009 14:13	0.0	0.0	0.0
464	06/12/2009 14:14	0.0	0.0	0.0
465	06/12/2009 14:15	0.0	0.0	0.0
466	06/12/2009 14:16	0.0	0.0	0.0
467	06/12/2009 14:17	0.0	0.0	0.0
468	06/12/2009 14:18	0.0	0.0	0.0
469	06/12/2009 14:19	0.0	0.0	0.0
470	06/12/2009 14:20	0.0	0.0	0.0
471	06/12/2009 14:21	0.0	0.0	0.0
472	06/12/2009 14:22	0.0	0.0	0.0
473	06/12/2009 14:23	0.0	0.0	0.0
474	06/12/2009 14:24	0.0	0.0	0.0
475	06/12/2009 14:25	0.0	0.0	0.0
476	06/12/2009 14:26	0.0	0.0	0.0
477	06/12/2009 14:27	0.0	0.0	0.0
478	06/12/2009 14:28	0.0	0.0	0.0
479	06/12/2009 14:29	0.0	0.0	0.0
480	06/12/2009 14:30	0.0	0.0	0.0
481	06/12/2009 14:31	0.0	0.0	0.0
482	06/12/2009 14:32	0.0	0.0	0.0
483	06/12/2009 14:33	0.0	0.0	0.0
484	06/12/2009 14:34	0.0	0.0	0.0
485	06/12/2009 14:35	0.0	0.0	0.0
486	06/12/2009 14:36	0.0	0.0	0.0
487	06/12/2009 14:37	0.0	0.0	0.0
488	06/12/2009 14:38	0.0	0.0	0.0
489	06/12/2009 14:39	0.0	0.0	0.0
490	06/12/2009 14:40	0.0	0.0	0.0
491	06/12/2009 14:41	0.0	0.0	0.0
492	06/12/2009 14:42	0.0	0.0	0.0
493	06/12/2009 14:43	0.0	0.0	0.0
494	06/12/2009 14:44	0.0	0.0	0.0
495	06/12/2009 14:45	0.0	0.0	0.0
496	06/12/2009 14:46	0.0	0.0	0.0
497	06/12/2009 14:47	0.0	0.0	0.0
498	06/12/2009 14:48	0.0	0.0	0.0
499	06/12/2009 14:49	0.0	0.0	0.0
500	06/12/2009 14:50	0.0	0.0	0.0
501	06/12/2009 14:51	0.0	0.0	0.0
502	06/12/2009 14:52	0.0	0.0	0.0
503	06/12/2009 14:53	0.0	0.0	0.0
504	06/12/2009 14:54	0.0	0.0	0.0
505	06/12/2009 14:55	0.0	0.0	0.0
506	06/12/2009 14:56	0.0	0.0	0.0
507	06/12/2009 14:57	0.0	0.0	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 437 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 06/15/2009 09:04      0.0         0.0          0.0
2 06/15/2009 09:05      0.0         0.0          0.0
3 06/15/2009 09:06      0.0         0.0          0.0
4 06/15/2009 09:07      0.0         0.0          0.0
5 06/15/2009 09:08      0.0         0.0          0.0
6 06/15/2009 09:09      0.0         0.0          0.0
7 06/15/2009 09:10      0.0         0.0          0.0
8 06/15/2009 09:11      0.0         0.0          0.0
9 06/15/2009 09:12      0.0         0.0          0.0
10 06/15/2009 09:13      0.0         0.0          0.0
11 06/15/2009 09:14      0.0         0.0          0.0
12 06/15/2009 09:15      0.0         0.0          0.0
13 06/15/2009 09:16      0.0         0.0          0.0
14 06/15/2009 09:17      0.0         0.0          0.0
15 06/15/2009 09:18      0.0         0.0          0.0
16 06/15/2009 09:19      0.0         0.0          0.0
17 06/15/2009 09:20      0.0         0.0          0.0
18 06/15/2009 09:21      0.0         0.0          0.0
19 06/15/2009 09:22      0.0         0.0          0.0
20 06/15/2009 09:23      0.0         0.0          0.0
21 06/15/2009 09:24      0.0         0.0          0.0
22 06/15/2009 09:25      0.0         0.0          0.0
23 06/15/2009 09:26      0.0         0.0          0.0
24 06/15/2009 09:27      0.0         0.0          0.0
25 06/15/2009 09:28      0.0         0.0          0.0
26 06/15/2009 09:29      0.0         0.0          0.0
27 06/15/2009 09:30      0.0         0.0          0.0
28 06/15/2009 09:31      0.0         0.0          0.0
29 06/15/2009 09:32      0.0         0.0          0.0
30 06/15/2009 09:33      0.0         0.0          0.0
31 06/15/2009 09:34      0.0         0.0          0.0
32 06/15/2009 09:35      0.0         0.0          0.0
33 06/15/2009 09:36      0.0         0.0          0.0
34 06/15/2009 09:37      0.0         0.0          0.0
35 06/15/2009 09:38      0.0         0.0          0.0
36 06/15/2009 09:39      0.0         0.0          0.0
37 06/15/2009 09:40      0.0         0.0          0.0
38 06/15/2009 09:41      0.0         0.0          0.0
39 06/15/2009 09:42      0.0         0.0          0.0
40 06/15/2009 09:43      0.0         0.0          0.0
41 06/15/2009 09:44      0.0         0.0          0.0
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42	06/15/2009 09:45	0.0	0.0	0.0
43	06/15/2009 09:46	0.0	0.0	0.0
44	06/15/2009 09:47	0.0	0.0	0.0
45	06/15/2009 09:48	0.0	0.0	0.0
46	06/15/2009 09:49	0.0	0.0	0.0
47	06/15/2009 09:50	0.0	0.0	0.0
48	06/15/2009 09:51	0.0	0.0	0.0
49	06/15/2009 09:52	0.0	0.0	0.0
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53	06/15/2009 09:56	0.0	0.0	0.0
54	06/15/2009 09:57	0.0	0.0	0.0
55	06/15/2009 09:58	0.0	0.0	0.0
56	06/15/2009 09:59	0.0	0.0	0.0
57	06/15/2009 10:00	0.0	0.0	0.0
58	06/15/2009 10:01	0.0	0.0	0.0
59	06/15/2009 10:02	0.0	0.0	0.0
60	06/15/2009 10:03	0.0	0.0	0.0
61	06/15/2009 10:04	0.0	0.0	0.0
62	06/15/2009 10:05	0.0	0.0	0.0
63	06/15/2009 10:06	0.0	0.0	0.0
64	06/15/2009 10:07	0.0	0.0	0.0
65	06/15/2009 10:08	0.0	0.0	0.0
66	06/15/2009 10:09	0.0	0.0	0.0
67	06/15/2009 10:10	0.0	0.0	0.0
68	06/15/2009 10:11	0.0	0.0	0.0
69	06/15/2009 10:12	0.0	0.0	0.0
70	06/15/2009 10:13	0.0	0.0	0.0
71	06/15/2009 10:14	0.0	0.0	0.0
72	06/15/2009 10:15	0.0	0.0	0.0
73	06/15/2009 10:16	0.0	0.0	0.0
74	06/15/2009 10:17	0.0	0.0	0.0
75	06/15/2009 10:18	0.0	0.0	0.0
76	06/15/2009 10:19	0.0	0.0	0.0
77	06/15/2009 10:20	0.0	0.0	0.0
78	06/15/2009 10:21	0.0	0.0	0.0
79	06/15/2009 10:22	0.0	0.0	0.0
80	06/15/2009 10:23	0.0	0.0	0.0
81	06/15/2009 10:24	0.0	0.0	0.0
82	06/15/2009 10:25	0.0	0.0	0.0
83	06/15/2009 10:26	0.0	0.0	0.0
84	06/15/2009 10:27	0.0	0.0	0.0
85	06/15/2009 10:28	0.0	0.0	0.0
86	06/15/2009 10:29	0.0	0.0	0.0
87	06/15/2009 10:30	0.0	0.0	0.0
88	06/15/2009 10:31	0.0	0.0	0.0
89	06/15/2009 10:32	0.0	0.0	0.0
90	06/15/2009 10:33	0.0	0.0	0.0
91	06/15/2009 10:34	0.0	0.0	0.0
92	06/15/2009 10:35	0.0	0.0	0.0
93	06/15/2009 10:36	0.0	0.0	0.0

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95	06/15/2009 10:38	0.0	0.0	0.0
96	06/15/2009 10:39	0.0	0.0	0.0
97	06/15/2009 10:40	0.0	0.0	0.0
98	06/15/2009 10:41	0.0	0.0	0.0
99	06/15/2009 10:42	0.0	0.0	0.0
100	06/15/2009 10:43	0.0	0.0	0.0
101	06/15/2009 10:44	0.0	0.0	0.0
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103	06/15/2009 10:46	0.0	0.0	0.0
104	06/15/2009 10:47	0.0	0.0	0.0
105	06/15/2009 10:48	0.0	0.0	0.0
106	06/15/2009 10:49	0.0	0.0	0.0
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108	06/15/2009 10:51	0.0	0.0	0.0
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115	06/15/2009 10:58	0.0	0.0	0.0
116	06/15/2009 10:59	0.0	0.0	0.0
117	06/15/2009 11:00	0.0	0.0	0.0
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119	06/15/2009 11:02	0.0	0.0	0.0
120	06/15/2009 11:03	0.0	0.0	0.0
121	06/15/2009 11:04	0.0	0.0	0.0
122	06/15/2009 11:05	0.0	0.0	0.0
123	06/15/2009 11:06	0.0	0.0	0.0
124	06/15/2009 11:07	0.0	0.0	0.0
125	06/15/2009 11:08	0.0	0.0	0.0
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128	06/15/2009 11:11	0.0	0.0	0.0
129	06/15/2009 11:12	0.0	0.0	0.0
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134	06/15/2009 11:17	0.0	0.0	0.0
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136	06/15/2009 11:19	0.0	0.0	0.0
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138	06/15/2009 11:21	0.0	0.0	0.0
139	06/15/2009 11:22	0.0	0.0	0.0
140	06/15/2009 11:23	0.0	0.0	0.0
141	06/15/2009 11:24	0.0	0.0	0.0
142	06/15/2009 11:25	0.0	0.0	0.0
143	06/15/2009 11:26	0.0	0.0	0.0
144	06/15/2009 11:27	0.0	0.0	0.0
145	06/15/2009 11:28	0.0	0.0	0.0

146	06/15/2009 11:29	0.0	0.0	0.0
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153	06/15/2009 11:36	0.0	0.0	0.0
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156	06/15/2009 11:39	0.0	0.0	0.0
157	06/15/2009 11:40	0.0	0.0	0.0
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175	06/15/2009 11:58	0.0	0.0	0.0
176	06/15/2009 11:59	0.0	0.0	0.0
177	06/15/2009 12:00	0.0	0.0	0.0
178	06/15/2009 12:01	0.0	0.0	0.0
179	06/15/2009 12:02	0.0	0.0	0.0
180	06/15/2009 12:03	0.0	0.0	0.0
181	06/15/2009 12:04	0.0	0.0	0.0
182	06/15/2009 12:05	0.0	0.0	0.0
183	06/15/2009 12:06	0.0	0.0	0.0
184	06/15/2009 12:07	0.0	0.0	0.0
185	06/15/2009 12:08	0.0	0.0	0.0
186	06/15/2009 12:09	0.0	0.0	0.0
187	06/15/2009 12:10	0.0	0.0	0.0
188	06/15/2009 12:11	0.0	0.0	0.0
189	06/15/2009 12:12	0.0	0.0	0.0
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193	06/15/2009 12:16	0.0	0.0	0.0
194	06/15/2009 12:17	0.0	0.0	0.0
195	06/15/2009 12:18	0.0	0.0	0.0
196	06/15/2009 12:19	0.0	0.0	0.0
197	06/15/2009 12:20	0.0	0.0	0.0

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199	06/15/2009 12:22	0.0	0.0	0.0
200	06/15/2009 12:23	0.0	0.0	0.0
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216	06/15/2009 12:39	0.0	0.0	0.0
217	06/15/2009 12:40	0.0	0.0	0.0
218	06/15/2009 12:41	0.0	0.0	0.0
219	06/15/2009 12:42	0.0	0.0	0.0
220	06/15/2009 12:43	0.0	0.0	0.0
221	06/15/2009 12:44	0.0	0.0	0.0
222	06/15/2009 12:45	0.0	0.0	0.0
223	06/15/2009 12:46	0.0	0.0	0.0
224	06/15/2009 12:47	0.0	0.0	0.0
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226	06/15/2009 12:49	0.0	0.0	0.0
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235	06/15/2009 12:58	0.0	0.0	0.0
236	06/15/2009 12:59	0.0	0.0	0.0
237	06/15/2009 13:00	0.0	0.0	0.0
238	06/15/2009 13:01	0.0	0.0	0.0
239	06/15/2009 13:02	0.0	0.0	0.0
240	06/15/2009 13:03	0.0	0.0	0.0
241	06/15/2009 13:04	0.0	0.0	0.0
242	06/15/2009 13:05	0.0	0.0	0.0
243	06/15/2009 13:06	0.0	0.0	0.0
244	06/15/2009 13:07	0.0	0.0	0.0
245	06/15/2009 13:08	0.0	0.0	0.0
246	06/15/2009 13:09	0.0	0.0	0.0
247	06/15/2009 13:10	0.0	0.0	0.0
248	06/15/2009 13:11	0.0	0.0	0.0
249	06/15/2009 13:12	0.0	0.0	0.0

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252	06/15/2009 13:15	0.0	0.0	0.0
253	06/15/2009 13:16	0.0	0.0	0.0
254	06/15/2009 13:17	0.0	0.0	0.0
255	06/15/2009 13:18	0.0	0.0	0.0
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276	06/15/2009 13:39	0.0	0.0	0.0
277	06/15/2009 13:40	0.0	0.0	0.0
278	06/15/2009 13:41	0.0	0.0	0.0
279	06/15/2009 13:42	0.0	0.0	0.0
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281	06/15/2009 13:44	0.0	0.0	0.0
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283	06/15/2009 13:46	0.0	0.0	0.0
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297	06/15/2009 14:00	0.0	0.0	0.0
298	06/15/2009 14:01	0.0	0.0	0.0
299	06/15/2009 14:02	0.0	0.0	0.0
300	06/15/2009 14:03	0.0	0.0	0.0
301	06/15/2009 14:04	0.0	0.0	0.0

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305	06/15/2009 14:08	0.0	0.0	0.0
306	06/15/2009 14:09	0.0	0.0	0.0
307	06/15/2009 14:10	0.0	0.0	0.0
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321	06/15/2009 14:24	0.0	0.0	0.0
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344	06/15/2009 14:47	0.0	0.0	0.0
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354	06/15/2009 14:57	0.0	0.0	0.0
355	06/15/2009 14:58	0.0	0.0	0.0
356	06/15/2009 14:59	0.0	0.0	0.0
357	06/15/2009 15:00	0.0	0.0	0.0
358	06/15/2009 15:01	0.0	0.0	0.0
359	06/15/2009 15:02	0.0	0.0	0.0
360	06/15/2009 15:03	0.0	0.0	0.0
361	06/15/2009 15:04	0.0	0.0	0.0
362	06/15/2009 15:05	0.0	0.0	0.0
363	06/15/2009 15:06	0.0	0.0	0.0
364	06/15/2009 15:07	0.0	0.0	0.0
365	06/15/2009 15:08	0.0	0.0	0.0
366	06/15/2009 15:09	0.0	0.0	0.0
367	06/15/2009 15:10	0.0	0.0	0.0
368	06/15/2009 15:11	0.0	0.0	0.0
369	06/15/2009 15:12	0.0	0.0	0.0
370	06/15/2009 15:13	0.0	0.0	0.0
371	06/15/2009 15:14	0.0	0.0	0.0
372	06/15/2009 15:15	0.0	0.0	0.0
373	06/15/2009 15:16	0.0	0.0	0.0
374	06/15/2009 15:17	0.0	0.0	0.0
375	06/15/2009 15:18	0.0	0.0	0.0
376	06/15/2009 15:19	0.0	0.0	0.0
377	06/15/2009 15:20	0.0	0.0	0.0
378	06/15/2009 15:21	0.0	0.0	0.0
379	06/15/2009 15:22	0.0	0.0	0.0
380	06/15/2009 15:23	0.0	0.0	0.0
381	06/15/2009 15:24	0.0	0.0	0.0
382	06/15/2009 15:25	0.0	0.0	0.0
383	06/15/2009 15:26	0.0	0.0	0.0
384	06/15/2009 15:27	0.0	0.0	0.0
385	06/15/2009 15:28	0.0	0.0	0.0
386	06/15/2009 15:29	0.0	0.0	0.0
387	06/15/2009 15:30	0.0	0.0	0.0
388	06/15/2009 15:31	0.0	0.0	0.0
389	06/15/2009 15:32	0.0	0.0	0.0
390	06/15/2009 15:33	0.0	0.0	0.0
391	06/15/2009 15:34	0.0	0.0	0.0
392	06/15/2009 15:35	0.0	0.0	0.0
393	06/15/2009 15:36	0.0	0.0	0.0
394	06/15/2009 15:37	0.0	0.0	0.0
395	06/15/2009 15:38	0.0	0.0	0.0
396	06/15/2009 15:39	0.0	0.0	0.0
397	06/15/2009 15:40	0.0	0.0	0.0
398	06/15/2009 15:41	0.0	0.0	0.0
399	06/15/2009 15:42	0.0	0.0	0.0
400	06/15/2009 15:43	0.0	0.0	0.0
401	06/15/2009 15:44	0.0	0.0	0.0
402	06/15/2009 15:45	0.0	0.0	0.0
403	06/15/2009 15:46	0.0	0.0	0.0
404	06/15/2009 15:47	0.0	0.0	0.0
405	06/15/2009 15:48	0.0	0.0	0.0

406	06/15/2009 15:49	0.0	0.0	0.0
407	06/15/2009 15:50	0.0	0.0	0.0
408	06/15/2009 15:51	0.0	0.0	0.0
409	06/15/2009 15:52	0.0	0.0	0.0
410	06/15/2009 15:53	0.0	0.0	0.0
411	06/15/2009 15:54	0.0	0.0	0.0
412	06/15/2009 15:55	0.0	0.0	0.0
413	06/15/2009 15:56	0.0	0.0	0.0
414	06/15/2009 15:57	0.0	0.0	0.0
415	06/15/2009 15:58	0.0	0.0	0.0
416	06/15/2009 15:59	0.0	0.0	0.0
417	06/15/2009 16:00	0.0	0.0	0.0
418	06/15/2009 16:01	0.0	0.0	0.0
419	06/15/2009 16:02	0.0	0.0	0.0
420	06/15/2009 16:03	0.0	0.0	0.0
421	06/15/2009 16:04	0.0	0.0	0.0
422	06/15/2009 16:05	0.0	0.0	0.0
423	06/15/2009 16:06	0.0	0.0	0.0
424	06/15/2009 16:07	0.0	0.0	0.0
425	06/15/2009 16:08	0.0	0.0	0.0
426	06/15/2009 16:09	0.0	0.0	0.0
427	06/15/2009 16:10	0.0	0.0	0.0
428	06/15/2009 16:11	0.0	0.0	0.0
429	06/15/2009 16:12	0.0	0.0	0.0
430	06/15/2009 16:13	0.0	0.0	0.0
431	06/15/2009 16:14	0.0	0.0	0.0
432	06/15/2009 16:15	0.0	0.0	0.0
433	06/15/2009 16:16	0.0	0.0	0.0
434	06/15/2009 16:17	0.0	0.0	0.0
435	06/15/2009 16:18	0.0	0.0	0.0
436	06/15/2009 16:19	0.0	0.0	0.0
437	06/15/2009 16:20	0.0	0.0	0.0



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 576 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/15/2009 06:46      0.0      0.0      0.0
2 06/15/2009 06:47      0.0      0.0      0.0
3 06/15/2009 06:48      0.0      0.0      0.0
4 06/15/2009 06:49      0.0      0.0      0.0
5 06/15/2009 06:50      0.0      0.0      0.0
6 06/15/2009 06:51      0.0      0.0      0.0
7 06/15/2009 06:52      0.0      0.0      0.0
8 06/15/2009 06:53      0.0      0.0      0.0
9 06/15/2009 06:54      0.0      0.0      0.0
10 06/15/2009 06:55      0.0      0.0      0.0
11 06/15/2009 06:56      0.0      0.0      0.0
12 06/15/2009 06:57      0.0      0.0      0.0
13 06/15/2009 06:58      0.0      0.0      0.0
14 06/15/2009 06:59      0.0      0.0      0.0
15 06/15/2009 07:00      0.0      0.0      0.0
16 06/15/2009 07:01      0.0      0.0      0.0
17 06/15/2009 07:02      0.0      0.0      0.0
18 06/15/2009 07:03      0.0      0.0      0.0
19 06/15/2009 07:04      0.0      0.0      0.0
20 06/15/2009 07:05      0.0      0.0      0.0
21 06/15/2009 07:06      0.0      0.0      0.0
22 06/15/2009 07:07      0.0      0.0      0.0
23 06/15/2009 07:08      0.0      0.0      0.0
24 06/15/2009 07:09      0.0      0.0      0.0
25 06/15/2009 07:10      0.0      0.0      0.0
26 06/15/2009 07:11      0.0      0.0      0.0
27 06/15/2009 07:12      0.0      0.0      0.0
28 06/15/2009 07:13      0.0      0.0      0.0
29 06/15/2009 07:14      0.0      0.0      0.0
30 06/15/2009 07:15      0.0      0.0      0.0
31 06/15/2009 07:16      0.0      0.0      0.0
32 06/15/2009 07:17      0.0      0.0      0.0
33 06/15/2009 07:18      0.0      0.0      0.0
34 06/15/2009 07:19      0.0      0.0      0.0
35 06/15/2009 07:20      0.0      0.0      0.0
36 06/15/2009 07:21      0.0      0.0      0.0
37 06/15/2009 07:22      0.0      0.0      0.0
38 06/15/2009 07:23      0.0      0.0      0.0
39 06/15/2009 07:24      0.0      0.0      0.0
40 06/15/2009 07:25      0.0      0.0      0.0
41 06/15/2009 07:26      0.0      0.0      0.0
```

42	06/15/2009 07:27	0.0	0.0	0.0
43	06/15/2009 07:28	0.0	0.0	0.0
44	06/15/2009 07:29	0.0	0.0	0.0
45	06/15/2009 07:30	0.0	0.0	0.0
46	06/15/2009 07:31	0.0	0.0	0.0
47	06/15/2009 07:32	0.0	0.0	0.0
48	06/15/2009 07:33	0.0	0.0	0.0
49	06/15/2009 07:34	0.0	0.0	0.0
50	06/15/2009 07:35	0.0	0.0	0.0
51	06/15/2009 07:36	0.0	0.0	0.0
52	06/15/2009 07:37	0.0	0.0	0.0
53	06/15/2009 07:38	0.0	0.0	0.0
54	06/15/2009 07:39	0.0	0.0	0.0
55	06/15/2009 07:40	0.0	0.0	0.0
56	06/15/2009 07:41	0.0	0.0	0.0
57	06/15/2009 07:42	0.0	0.0	0.0
58	06/15/2009 07:43	0.0	0.0	0.0
59	06/15/2009 07:44	0.0	0.0	0.0
60	06/15/2009 07:45	0.0	0.0	0.0
61	06/15/2009 07:46	0.0	0.0	0.0
62	06/15/2009 07:47	0.0	0.0	0.0
63	06/15/2009 07:48	0.0	0.0	0.0
64	06/15/2009 07:49	0.0	0.0	0.0
65	06/15/2009 07:50	0.0	0.0	0.0
66	06/15/2009 07:51	0.0	0.0	0.0
67	06/15/2009 07:52	0.0	0.0	0.0
68	06/15/2009 07:53	0.0	0.0	0.0
69	06/15/2009 07:54	0.0	0.0	0.0
70	06/15/2009 07:55	0.0	0.0	0.0
71	06/15/2009 07:56	0.0	0.0	0.0
72	06/15/2009 07:57	0.0	0.0	0.0
73	06/15/2009 07:58	0.0	0.0	0.0
74	06/15/2009 07:59	0.0	0.0	0.0
75	06/15/2009 08:00	0.0	0.0	0.0
76	06/15/2009 08:01	0.0	0.0	0.0
77	06/15/2009 08:02	0.0	0.0	0.0
78	06/15/2009 08:03	0.0	0.0	0.0
79	06/15/2009 08:04	0.0	0.0	0.0
80	06/15/2009 08:05	0.0	0.0	0.0
81	06/15/2009 08:06	0.0	0.0	0.0
82	06/15/2009 08:07	0.0	0.0	0.0
83	06/15/2009 08:08	0.0	0.0	0.0
84	06/15/2009 08:09	0.0	0.0	0.0
85	06/15/2009 08:10	0.0	0.0	0.0
86	06/15/2009 08:11	0.0	0.0	0.0
87	06/15/2009 08:12	0.0	0.0	0.0
88	06/15/2009 08:13	0.0	0.0	0.0
89	06/15/2009 08:14	0.0	0.0	0.0
90	06/15/2009 08:15	0.0	0.0	0.0
91	06/15/2009 08:16	0.0	0.0	0.0
92	06/15/2009 08:17	0.0	0.0	0.0
93	06/15/2009 08:18	0.0	0.0	0.0

94	06/15/2009 08:19	0.0	0.0	0.0
95	06/15/2009 08:20	0.0	0.0	0.0
96	06/15/2009 08:21	0.0	0.0	0.0
97	06/15/2009 08:22	0.0	0.0	0.0
98	06/15/2009 08:23	0.0	0.0	0.0
99	06/15/2009 08:24	0.0	0.0	0.0
100	06/15/2009 08:25	0.0	0.0	0.0
101	06/15/2009 08:26	0.0	0.0	0.0
102	06/15/2009 08:27	0.0	0.0	0.0
103	06/15/2009 08:28	0.0	0.0	0.0
104	06/15/2009 08:29	0.0	0.0	0.0
105	06/15/2009 08:30	0.0	0.0	0.0
106	06/15/2009 08:31	0.0	0.0	0.0
107	06/15/2009 08:32	0.0	0.0	0.0
108	06/15/2009 08:33	0.0	0.0	0.0
109	06/15/2009 08:34	0.0	0.0	0.1
110	06/15/2009 08:35	0.0	0.0	0.1
111	06/15/2009 08:36	0.0	0.0	0.1
112	06/15/2009 08:37	0.0	0.0	0.1
113	06/15/2009 08:38	0.0	0.0	0.1
114	06/15/2009 08:39	0.0	0.0	0.1
115	06/15/2009 08:40	0.0	0.0	0.1
116	06/15/2009 08:41	0.0	0.0	0.1
117	06/15/2009 08:42	0.0	0.0	0.1
118	06/15/2009 08:43	0.0	0.0	0.1
119	06/15/2009 08:44	0.0	0.0	0.1
120	06/15/2009 08:45	0.0	0.0	0.1
121	06/15/2009 08:46	0.0	0.0	0.1
122	06/15/2009 08:47	0.0	0.0	0.1
123	06/15/2009 08:48	0.0	0.0	0.1
124	06/15/2009 08:49	0.1	0.1	0.1
125	06/15/2009 08:50	0.0	0.0	0.1
126	06/15/2009 08:51	0.0	0.0	0.1
127	06/15/2009 08:52	0.0	0.0	0.1
128	06/15/2009 08:53	0.1	0.1	0.1
129	06/15/2009 08:54	0.1	0.1	0.1
130	06/15/2009 08:55	0.1	0.1	0.1
131	06/15/2009 08:56	0.1	0.1	0.1
132	06/15/2009 08:57	0.1	0.1	0.1
133	06/15/2009 08:58	0.1	0.1	0.1
134	06/15/2009 08:59	0.1	0.1	0.1
135	06/15/2009 09:00	0.1	0.1	0.1
136	06/15/2009 09:01	0.1	0.1	0.1
137	06/15/2009 09:02	0.1	0.1	0.1
138	06/15/2009 09:03	0.1	0.1	0.1
139	06/15/2009 09:04	0.1	0.1	0.1
140	06/15/2009 09:05	0.1	0.1	0.1
141	06/15/2009 09:06	0.1	0.1	0.1
142	06/15/2009 09:07	0.1	0.1	0.1
143	06/15/2009 09:08	0.1	0.1	0.1
144	06/15/2009 09:09	0.1	0.1	0.1
145	06/15/2009 09:10	0.1	0.1	0.1

146	06/15/2009 09:11	0.1	0.1	0.1
147	06/15/2009 09:12	0.1	0.1	0.1
148	06/15/2009 09:13	0.1	0.1	0.1
149	06/15/2009 09:14	0.1	0.1	0.1
150	06/15/2009 09:15	0.1	0.1	0.1
151	06/15/2009 09:16	0.1	0.1	0.1
152	06/15/2009 09:17	0.1	0.1	0.1
153	06/15/2009 09:18	0.1	0.1	0.1
154	06/15/2009 09:19	0.1	0.1	0.1
155	06/15/2009 09:20	0.1	0.1	0.1
156	06/15/2009 09:21	0.1	0.1	0.1
157	06/15/2009 09:22	0.1	0.1	0.1
158	06/15/2009 09:23	0.1	0.1	0.1
159	06/15/2009 09:24	0.1	0.1	0.1
160	06/15/2009 09:25	0.1	0.1	0.1
161	06/15/2009 09:26	0.1	0.1	0.1
162	06/15/2009 09:27	0.1	0.1	0.1
163	06/15/2009 09:28	0.1	0.1	0.1
164	06/15/2009 09:29	0.1	0.1	0.1
165	06/15/2009 09:30	0.1	0.1	0.1
166	06/15/2009 09:31	0.1	0.1	0.1
167	06/15/2009 09:32	0.1	0.1	0.1
168	06/15/2009 09:33	0.1	0.1	0.1
169	06/15/2009 09:34	0.1	0.1	0.1
170	06/15/2009 09:35	0.1	0.1	0.1
171	06/15/2009 09:36	0.1	0.1	0.1
172	06/15/2009 09:37	0.1	0.1	0.1
173	06/15/2009 09:38	0.1	0.1	0.1
174	06/15/2009 09:39	0.1	0.1	0.1
175	06/15/2009 09:40	0.1	0.1	0.1
176	06/15/2009 09:41	0.1	0.1	0.1
177	06/15/2009 09:42	0.1	0.1	0.1
178	06/15/2009 09:43	0.1	0.1	0.1
179	06/15/2009 09:44	0.1	0.1	0.1
180	06/15/2009 09:45	0.1	0.1	0.2
181	06/15/2009 09:46	0.1	0.1	0.1
182	06/15/2009 09:47	0.1	0.1	0.1
183	06/15/2009 09:48	0.1	0.1	0.2
184	06/15/2009 09:49	0.1	0.1	0.1
185	06/15/2009 09:50	0.1	0.1	0.1
186	06/15/2009 09:51	0.1	0.1	0.1
187	06/15/2009 09:52	0.1	0.1	0.1
188	06/15/2009 09:53	0.1	0.1	0.1
189	06/15/2009 09:54	0.1	0.1	0.1
190	06/15/2009 09:55	0.1	0.1	0.1
191	06/15/2009 09:56	0.1	0.1	0.1
192	06/15/2009 09:57	0.1	0.1	0.1
193	06/15/2009 09:58	0.1	0.1	0.1
194	06/15/2009 09:59	0.1	0.1	0.1
195	06/15/2009 10:00	0.1	0.1	0.1
196	06/15/2009 10:01	0.1	0.1	0.1
197	06/15/2009 10:02	0.1	0.1	0.1

198	06/15/2009 10:03	0.1	0.1	0.1
199	06/15/2009 10:04	0.1	0.1	0.1
200	06/15/2009 10:05	0.1	0.1	0.1
201	06/15/2009 10:06	0.1	0.1	0.1
202	06/15/2009 10:07	0.1	0.1	0.2
203	06/15/2009 10:08	0.1	0.1	0.1
204	06/15/2009 10:09	0.1	0.1	0.2
205	06/15/2009 10:10	0.1	0.1	0.2
206	06/15/2009 10:11	0.1	0.1	0.2
207	06/15/2009 10:12	0.1	0.1	0.2
208	06/15/2009 10:13	0.1	0.1	0.2
209	06/15/2009 10:14	0.1	0.1	0.2
210	06/15/2009 10:15	0.1	0.1	0.2
211	06/15/2009 10:16	0.1	0.1	0.2
212	06/15/2009 10:17	0.1	0.1	0.2
213	06/15/2009 10:18	0.1	0.1	0.1
214	06/15/2009 10:19	0.1	0.1	0.2
215	06/15/2009 10:20	0.1	0.1	0.2
216	06/15/2009 10:21	0.1	0.1	0.2
217	06/15/2009 10:22	0.1	0.1	0.2
218	06/15/2009 10:23	0.1	0.1	0.2
219	06/15/2009 10:24	0.1	0.1	0.2
220	06/15/2009 10:25	0.1	0.1	0.2
221	06/15/2009 10:26	0.1	0.1	0.2
222	06/15/2009 10:27	0.1	0.1	0.2
223	06/15/2009 10:28	0.2	0.2	0.2
224	06/15/2009 10:29	0.1	0.1	0.2
225	06/15/2009 10:30	0.1	0.1	0.2
226	06/15/2009 10:31	0.1	0.1	0.2
227	06/15/2009 10:32	0.1	0.1	0.2
228	06/15/2009 10:33	0.1	0.1	0.2
229	06/15/2009 10:34	0.1	0.1	0.1
230	06/15/2009 10:35	0.1	0.1	0.1
231	06/15/2009 10:36	0.1	0.1	0.2
232	06/15/2009 10:37	0.1	0.1	0.2
233	06/15/2009 10:38	0.1	0.1	0.2
234	06/15/2009 10:39	0.1	0.1	0.3
235	06/15/2009 10:40	0.1	0.1	0.2
236	06/15/2009 10:41	0.1	0.1	0.1
237	06/15/2009 10:42	0.1	0.1	0.1
238	06/15/2009 10:43	0.1	0.1	0.1
239	06/15/2009 10:44	0.1	0.1	0.1
240	06/15/2009 10:45	0.1	0.1	0.2
241	06/15/2009 10:46	0.1	0.1	0.2
242	06/15/2009 10:47	0.1	0.1	0.2
243	06/15/2009 10:48	0.1	0.1	0.2
244	06/15/2009 10:49	0.1	0.1	0.1
245	06/15/2009 10:50	0.1	0.1	0.1
246	06/15/2009 10:51	0.1	0.1	0.1
247	06/15/2009 10:52	0.1	0.1	0.1
248	06/15/2009 10:53	0.1	0.1	0.2
249	06/15/2009 10:54	0.1	0.1	0.2

250	06/15/2009 10:55	0.1	0.1	0.1
251	06/15/2009 10:56	0.1	0.1	0.1
252	06/15/2009 10:57	0.1	0.1	0.1
253	06/15/2009 10:58	0.1	0.1	0.1
254	06/15/2009 10:59	0.1	0.1	0.1
255	06/15/2009 11:00	0.1	0.1	0.1
256	06/15/2009 11:01	0.1	0.1	0.1
257	06/15/2009 11:02	0.1	0.1	0.1
258	06/15/2009 11:03	0.1	0.1	0.1
259	06/15/2009 11:04	0.1	0.1	0.1
260	06/15/2009 11:05	0.1	0.1	0.1
261	06/15/2009 11:06	0.1	0.1	0.1
262	06/15/2009 11:07	0.1	0.1	0.2
263	06/15/2009 11:08	0.1	0.1	0.1
264	06/15/2009 11:09	0.1	0.1	0.2
265	06/15/2009 11:10	0.1	0.1	0.3
266	06/15/2009 11:11	0.1	0.1	0.2
267	06/15/2009 11:12	0.1	0.1	0.2
268	06/15/2009 11:13	0.1	0.1	0.1
269	06/15/2009 11:14	0.1	0.1	0.1
270	06/15/2009 11:15	0.1	0.1	0.1
271	06/15/2009 11:16	0.1	0.1	0.2
272	06/15/2009 11:17	0.1	0.1	0.2
273	06/15/2009 11:18	0.1	0.1	0.2
274	06/15/2009 11:19	0.1	0.1	0.2
275	06/15/2009 11:20	0.1	0.1	0.2
276	06/15/2009 11:21	0.1	0.1	0.2
277	06/15/2009 11:22	0.1	0.1	0.1
278	06/15/2009 11:23	0.1	0.1	0.2
279	06/15/2009 11:24	0.1	0.2	0.3
280	06/15/2009 11:25	0.2	0.2	0.2
281	06/15/2009 11:26	0.1	0.1	0.2
282	06/15/2009 11:27	0.1	0.1	0.2
283	06/15/2009 11:28	0.1	0.1	0.2
284	06/15/2009 11:29	0.1	0.1	0.2
285	06/15/2009 11:30	0.1	0.1	0.2
286	06/15/2009 11:31	0.1	0.1	0.2
287	06/15/2009 11:32	0.1	0.1	0.2
288	06/15/2009 11:33	0.1	0.1	0.2
289	06/15/2009 11:34	0.1	0.1	0.2
290	06/15/2009 11:35	0.1	0.1	0.2
291	06/15/2009 11:36	0.1	0.1	0.2
292	06/15/2009 11:37	0.2	0.2	0.2
293	06/15/2009 11:38	0.2	0.2	0.2
294	06/15/2009 11:39	0.2	0.2	0.2
295	06/15/2009 11:40	0.1	0.1	0.2
296	06/15/2009 11:41	0.1	0.1	0.2
297	06/15/2009 11:42	0.2	0.2	0.2
298	06/15/2009 11:43	0.2	0.2	0.2
299	06/15/2009 11:44	0.2	0.2	0.2
300	06/15/2009 11:45	0.2	0.2	0.2
301	06/15/2009 11:46	0.2	0.2	0.2

302	06/15/2009 11:47	0.2	0.2	0.3
303	06/15/2009 11:48	0.2	0.2	0.2
304	06/15/2009 11:49	0.2	0.2	0.2
305	06/15/2009 11:50	0.2	0.2	0.2
306	06/15/2009 11:51	0.2	0.2	0.2
307	06/15/2009 11:52	0.2	0.2	0.2
308	06/15/2009 11:53	0.2	0.2	0.2
309	06/15/2009 11:54	0.2	0.2	0.2
310	06/15/2009 11:55	0.2	0.2	0.3
311	06/15/2009 11:56	0.2	0.2	0.2
312	06/15/2009 11:57	0.2	0.2	0.2
313	06/15/2009 11:58	0.2	0.2	0.2
314	06/15/2009 11:59	0.2	0.2	0.2
315	06/15/2009 12:00	0.2	0.2	0.2
316	06/15/2009 12:01	0.2	0.2	0.2
317	06/15/2009 12:02	0.2	0.2	0.2
318	06/15/2009 12:03	0.2	0.2	0.2
319	06/15/2009 12:04	0.2	0.2	0.2
320	06/15/2009 12:05	0.2	0.2	0.2
321	06/15/2009 12:06	0.2	0.2	0.2
322	06/15/2009 12:07	0.2	0.2	0.2
323	06/15/2009 12:08	0.2	0.2	0.2
324	06/15/2009 12:09	0.2	0.2	0.2
325	06/15/2009 12:10	0.2	0.2	0.2
326	06/15/2009 12:11	0.2	0.2	0.2
327	06/15/2009 12:12	0.2	0.2	0.2
328	06/15/2009 12:13	0.2	0.2	0.2
329	06/15/2009 12:14	0.2	0.2	0.2
330	06/15/2009 12:15	0.2	0.2	0.2
331	06/15/2009 12:16	0.2	0.2	0.2
332	06/15/2009 12:17	0.2	0.2	0.2
333	06/15/2009 12:18	0.2	0.2	0.2
334	06/15/2009 12:19	0.2	0.2	0.2
335	06/15/2009 12:20	0.2	0.2	0.2
336	06/15/2009 12:21	0.2	0.2	0.2
337	06/15/2009 12:22	0.2	0.2	0.2
338	06/15/2009 12:23	0.2	0.2	0.2
339	06/15/2009 12:24	0.2	0.2	0.2
340	06/15/2009 12:25	0.2	0.2	0.2
341	06/15/2009 12:26	0.2	0.2	0.2
342	06/15/2009 12:27	0.1	0.1	0.2
343	06/15/2009 12:28	0.1	0.1	0.2
344	06/15/2009 12:29	0.2	0.2	0.2
345	06/15/2009 12:30	0.2	0.2	0.2
346	06/15/2009 12:31	0.2	0.2	0.2
347	06/15/2009 12:32	0.1	0.1	0.2
348	06/15/2009 12:33	0.2	0.2	0.2
349	06/15/2009 12:34	0.2	0.2	0.2
350	06/15/2009 12:35	0.2	0.2	0.2
351	06/15/2009 12:36	0.2	0.2	0.2
352	06/15/2009 12:37	0.2	0.2	0.2
353	06/15/2009 12:38	0.1	0.1	0.2

354	06/15/2009 12:39	0.1	0.1	0.2
355	06/15/2009 12:40	0.1	0.1	0.2
356	06/15/2009 12:41	0.2	0.2	0.2
357	06/15/2009 12:42	0.1	0.1	0.2
358	06/15/2009 12:43	0.1	0.1	0.2
359	06/15/2009 12:44	0.1	0.1	0.2
360	06/15/2009 12:45	0.2	0.2	0.2
361	06/15/2009 12:46	0.1	0.1	0.2
362	06/15/2009 12:47	0.1	0.1	0.2
363	06/15/2009 12:48	0.1	0.1	0.2
364	06/15/2009 12:49	0.1	0.1	0.2
365	06/15/2009 12:50	0.1	0.1	0.2
366	06/15/2009 12:51	0.1	0.1	0.2
367	06/15/2009 12:52	0.1	0.1	0.2
368	06/15/2009 12:53	0.2	0.2	0.2
369	06/15/2009 12:54	0.2	0.2	0.2
370	06/15/2009 12:55	0.2	0.2	0.2
371	06/15/2009 12:56	0.1	0.1	0.2
372	06/15/2009 12:57	0.2	0.2	0.2
373	06/15/2009 12:58	0.1	0.1	0.2
374	06/15/2009 12:59	0.1	0.1	0.2
375	06/15/2009 13:00	0.1	0.1	0.2
376	06/15/2009 13:01	0.2	0.2	0.2
377	06/15/2009 13:02	0.2	0.2	0.2
378	06/15/2009 13:03	0.2	0.2	0.2
379	06/15/2009 13:04	0.2	0.2	0.2
380	06/15/2009 13:05	0.2	0.2	0.2
381	06/15/2009 13:06	0.2	0.2	0.2
382	06/15/2009 13:07	0.2	0.2	0.2
383	06/15/2009 13:08	0.2	0.2	0.2
384	06/15/2009 13:09	0.2	0.2	0.2
385	06/15/2009 13:10	0.2	0.2	0.2
386	06/15/2009 13:11	0.2	0.2	0.2
387	06/15/2009 13:12	0.2	0.2	0.2
388	06/15/2009 13:13	0.2	0.2	0.2
389	06/15/2009 13:14	0.2	0.2	0.2
390	06/15/2009 13:15	0.2	0.2	0.2
391	06/15/2009 13:16	0.2	0.2	0.2
392	06/15/2009 13:17	0.2	0.2	0.2
393	06/15/2009 13:18	0.2	0.2	0.2
394	06/15/2009 13:19	0.2	0.2	0.2
395	06/15/2009 13:20	0.2	0.2	0.2
396	06/15/2009 13:21	0.2	0.2	0.2
397	06/15/2009 13:22	0.2	0.2	0.2
398	06/15/2009 13:23	0.2	0.2	0.2
399	06/15/2009 13:24	0.2	0.2	0.2
400	06/15/2009 13:25	0.2	0.2	0.2
401	06/15/2009 13:26	0.2	0.2	0.2
402	06/15/2009 13:27	0.2	0.2	0.2
403	06/15/2009 13:28	0.2	0.2	0.2
404	06/15/2009 13:29	0.2	0.2	0.2
405	06/15/2009 13:30	0.2	0.2	0.2



406	06/15/2009 13:31	0.2	0.2	0.2
407	06/15/2009 13:32	0.2	0.2	0.2
408	06/15/2009 13:33	0.2	0.2	0.2
409	06/15/2009 13:34	0.2	0.2	0.2
410	06/15/2009 13:35	0.2	0.2	0.2
411	06/15/2009 13:36	0.2	0.2	0.2
412	06/15/2009 13:37	0.2	0.2	0.2
413	06/15/2009 13:38	0.2	0.2	0.2
414	06/15/2009 13:39	0.2	0.2	0.2
415	06/15/2009 13:40	0.2	0.2	0.2
416	06/15/2009 13:41	0.2	0.2	0.2
417	06/15/2009 13:42	0.2	0.2	0.2
418	06/15/2009 13:43	0.2	0.2	0.2
419	06/15/2009 13:44	0.2	0.2	0.2
420	06/15/2009 13:45	0.2	0.2	0.2
421	06/15/2009 13:46	0.2	0.2	0.2
422	06/15/2009 13:47	0.2	0.2	0.2
423	06/15/2009 13:48	0.1	0.1	0.2
424	06/15/2009 13:49	0.1	0.1	0.2
425	06/15/2009 13:50	0.2	0.2	0.2
426	06/15/2009 13:51	0.2	0.2	0.2
427	06/15/2009 13:52	0.2	0.2	0.2
428	06/15/2009 13:53	0.2	0.2	0.2
429	06/15/2009 13:54	0.2	0.2	0.2
430	06/15/2009 13:55	0.2	0.2	0.2
431	06/15/2009 13:56	0.2	0.2	0.2
432	06/15/2009 13:57	0.2	0.2	0.2
433	06/15/2009 13:58	0.2	0.2	0.2
434	06/15/2009 13:59	0.2	0.2	0.2
435	06/15/2009 14:00	0.2	0.2	0.2
436	06/15/2009 14:01	0.2	0.2	0.2
437	06/15/2009 14:02	0.2	0.2	0.2
438	06/15/2009 14:03	0.2	0.2	0.2
439	06/15/2009 14:04	0.2	0.2	0.2
440	06/15/2009 14:05	0.2	0.2	0.2
441	06/15/2009 14:06	0.2	0.2	0.2
442	06/15/2009 14:07	0.2	0.2	0.2
443	06/15/2009 14:08	0.1	0.1	0.2
444	06/15/2009 14:09	0.2	0.2	0.2
445	06/15/2009 14:10	0.2	0.2	0.2
446	06/15/2009 14:11	0.2	0.2	0.2
447	06/15/2009 14:12	0.2	0.2	0.2
448	06/15/2009 14:13	0.2	0.2	0.2
449	06/15/2009 14:14	0.2	0.2	0.2
450	06/15/2009 14:15	0.2	0.2	0.2
451	06/15/2009 14:16	0.2	0.2	0.2
452	06/15/2009 14:17	0.2	0.2	0.2
453	06/15/2009 14:18	0.2	0.2	0.2
454	06/15/2009 14:19	0.2	0.2	0.2
455	06/15/2009 14:20	0.2	0.2	0.2
456	06/15/2009 14:21	0.2	0.2	0.2
457	06/15/2009 14:22	0.2	0.2	0.2

458	06/15/2009 14:23	0.2	0.2	0.2
459	06/15/2009 14:24	0.2	0.2	0.3
460	06/15/2009 14:25	0.2	0.2	0.2
461	06/15/2009 14:26	0.2	0.2	0.2
462	06/15/2009 14:27	0.2	0.2	0.3
463	06/15/2009 14:28	0.2	0.2	0.2
464	06/15/2009 14:29	0.2	0.2	0.4
465	06/15/2009 14:30	0.2	0.2	0.3
466	06/15/2009 14:31	0.2	0.2	0.2
467	06/15/2009 14:32	0.2	0.2	0.3
468	06/15/2009 14:33	0.2	0.2	0.2
469	06/15/2009 14:34	0.2	0.2	0.2
470	06/15/2009 14:35	0.2	0.2	0.2
471	06/15/2009 14:36	0.2	0.2	0.2
472	06/15/2009 14:37	0.2	0.2	0.2
473	06/15/2009 14:38	0.2	0.2	0.2
474	06/15/2009 14:39	0.2	0.2	0.2
475	06/15/2009 14:40	0.2	0.2	0.2
476	06/15/2009 14:41	0.2	0.2	0.2
477	06/15/2009 14:42	0.2	0.2	0.2
478	06/15/2009 14:43	0.2	0.2	0.2
479	06/15/2009 14:44	0.2	0.2	0.2
480	06/15/2009 14:45	0.2	0.2	0.2
481	06/15/2009 14:46	0.2	0.2	0.2
482	06/15/2009 14:47	0.2	0.2	0.2
483	06/15/2009 14:48	0.2	0.2	0.2
484	06/15/2009 14:49	0.2	0.2	0.2
485	06/15/2009 14:50	0.2	0.2	0.2
486	06/15/2009 14:51	0.2	0.2	0.2
487	06/15/2009 14:52	0.2	0.2	0.2
488	06/15/2009 14:53	0.2	0.2	0.3
489	06/15/2009 14:54	0.2	0.2	0.3
490	06/15/2009 14:55	0.2	0.2	0.4
491	06/15/2009 14:56	0.2	0.2	0.6
492	06/15/2009 14:57	0.2	0.2	0.3
493	06/15/2009 14:58	0.2	0.2	0.2
494	06/15/2009 14:59	0.2	0.2	0.2
495	06/15/2009 15:00	0.2	0.2	0.3
496	06/15/2009 15:01	0.2	0.2	0.2
497	06/15/2009 15:02	0.2	0.2	0.2
498	06/15/2009 15:03	0.2	0.2	0.2
499	06/15/2009 15:04	0.2	0.2	0.2
500	06/15/2009 15:05	0.2	0.2	0.2
501	06/15/2009 15:06	0.2	0.2	0.2
502	06/15/2009 15:07	0.2	0.2	0.2
503	06/15/2009 15:08	0.2	0.2	0.2
504	06/15/2009 15:09	0.2	0.2	0.2
505	06/15/2009 15:10	0.2	0.2	0.2
506	06/15/2009 15:11	0.2	0.2	0.2
507	06/15/2009 15:12	0.2	0.2	0.2
508	06/15/2009 15:13	0.2	0.2	0.2
509	06/15/2009 15:14	0.2	0.2	0.2

510	06/15/2009 15:15	0.2	0.2	0.2
511	06/15/2009 15:16	0.2	0.2	0.2
512	06/15/2009 15:17	0.2	0.2	0.2
513	06/15/2009 15:18	0.2	0.2	0.2
514	06/15/2009 15:19	0.2	0.2	0.2
515	06/15/2009 15:20	0.2	0.2	0.2
516	06/15/2009 15:21	0.2	0.2	0.2
517	06/15/2009 15:22	0.2	0.2	0.2
518	06/15/2009 15:23	0.2	0.2	0.2
519	06/15/2009 15:24	0.2	0.2	0.2
520	06/15/2009 15:25	0.2	0.2	0.2
521	06/15/2009 15:26	0.2	0.2	0.2
522	06/15/2009 15:27	0.2	0.2	0.2
523	06/15/2009 15:28	0.2	0.2	0.2
524	06/15/2009 15:29	0.2	0.2	0.2
525	06/15/2009 15:30	0.2	0.2	0.2
526	06/15/2009 15:31	0.2	0.2	0.2
527	06/15/2009 15:32	0.2	0.2	0.2
528	06/15/2009 15:33	0.2	0.2	0.2
529	06/15/2009 15:34	0.2	0.2	0.2
530	06/15/2009 15:35	0.2	0.2	0.2
531	06/15/2009 15:36	0.2	0.2	0.2
532	06/15/2009 15:37	0.2	0.2	0.2
533	06/15/2009 15:38	0.2	0.2	0.2
534	06/15/2009 15:39	0.2	0.2	0.2
535	06/15/2009 15:40	0.2	0.2	0.2
536	06/15/2009 15:41	0.2	0.2	0.2
537	06/15/2009 15:42	0.2	0.2	0.2
538	06/15/2009 15:43	0.2	0.2	0.2
539	06/15/2009 15:44	0.2	0.2	0.2
540	06/15/2009 15:45	0.2	0.2	0.2
541	06/15/2009 15:46	0.2	0.2	0.2
542	06/15/2009 15:47	0.2	0.2	0.2
543	06/15/2009 15:48	0.2	0.2	0.2
544	06/15/2009 15:49	0.2	0.2	0.2
545	06/15/2009 15:50	0.2	0.2	0.2
546	06/15/2009 15:51	0.2	0.2	0.2
547	06/15/2009 15:52	0.2	0.2	0.2
548	06/15/2009 15:53	0.2	0.2	0.2
549	06/15/2009 15:54	0.2	0.2	0.2
550	06/15/2009 15:55	0.2	0.2	0.2
551	06/15/2009 15:56	0.2	0.2	0.2
552	06/15/2009 15:57	0.2	0.2	0.2
553	06/15/2009 15:58	0.2	0.2	0.2
554	06/15/2009 15:59	0.2	0.2	0.2
555	06/15/2009 16:00	0.2	0.2	0.2
556	06/15/2009 16:01	0.2	0.2	0.2
557	06/15/2009 16:02	0.2	0.2	0.2
558	06/15/2009 16:03	0.2	0.2	0.2
559	06/15/2009 16:04	0.2	0.2	0.2
560	06/15/2009 16:05	0.2	0.2	0.2
561	06/15/2009 16:06	0.2	0.2	0.2

562	06/15/2009 16:07	0.2	0.2	0.2
563	06/15/2009 16:08	0.2	0.2	0.2
564	06/15/2009 16:09	0.2	0.2	0.2
565	06/15/2009 16:10	0.2	0.2	0.2
566	06/15/2009 16:11	0.2	0.2	0.2
567	06/15/2009 16:12	0.2	0.2	0.2
568	06/15/2009 16:13	0.2	0.2	0.3
569	06/15/2009 16:14	0.2	0.2	0.2
570	06/15/2009 16:15	0.2	0.2	0.2
571	06/15/2009 16:16	0.2	0.2	0.2
572	06/15/2009 16:17	0.2	0.2	0.2
573	06/15/2009 16:18	0.2	0.2	0.2
574	06/15/2009 16:19	0.2	0.2	0.2
575	06/15/2009 16:20	0.2	0.2	0.2
576	06/15/2009 16:21	0.2	0.2	0.3

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 580 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/15/2009 06:43      0.0      0.0      0.0
2 06/15/2009 06:44      0.0      0.0      0.0
3 06/15/2009 06:45      0.0      0.0      0.0
4 06/15/2009 06:46      0.0      0.0      0.0
5 06/15/2009 06:47      0.0      0.0      0.0
6 06/15/2009 06:48      0.0      0.0      0.0
7 06/15/2009 06:49      0.0      0.0      0.0
8 06/15/2009 06:50      0.0      0.0      0.0
9 06/15/2009 06:51      0.0      0.0      0.0
10 06/15/2009 06:52      0.0      0.0      0.0
11 06/15/2009 06:53      0.0      0.0      0.0
12 06/15/2009 06:54      0.0      0.0      0.0
13 06/15/2009 06:55      0.0      0.0      0.0
14 06/15/2009 06:56      0.0      0.0      0.0
15 06/15/2009 06:57      0.0      0.0      0.0
16 06/15/2009 06:58      0.0      0.0      0.0
17 06/15/2009 06:59      0.0      0.0      0.0
18 06/15/2009 07:00      0.0      0.0      0.0
19 06/15/2009 07:01      0.0      0.0      0.0
20 06/15/2009 07:02      0.0      0.0      0.0
21 06/15/2009 07:03      0.0      0.0      0.0
22 06/15/2009 07:04      0.0      0.0      0.0
23 06/15/2009 07:05      0.0      0.0      0.0
24 06/15/2009 07:06      0.0      0.0      0.0
25 06/15/2009 07:07      0.0      0.0      0.0
26 06/15/2009 07:08      0.0      0.0      0.0
27 06/15/2009 07:09      0.0      0.0      0.0
28 06/15/2009 07:10      0.0      0.0      0.0
29 06/15/2009 07:11      0.0      0.0      0.0
30 06/15/2009 07:12      0.0      0.0      0.0
31 06/15/2009 07:13      0.0      0.0      0.1
32 06/15/2009 07:14      0.0      0.0      0.0
33 06/15/2009 07:15      0.0      0.0      0.0
34 06/15/2009 07:16      0.0      0.0      0.0
35 06/15/2009 07:17      0.0      0.0      0.1
36 06/15/2009 07:18      0.0      0.0      0.1
37 06/15/2009 07:19      0.0      0.0      0.0
38 06/15/2009 07:20      0.0      0.0      0.0
39 06/15/2009 07:21      0.0      0.0      0.0
40 06/15/2009 07:22      0.0      0.0      0.0
41 06/15/2009 07:23      0.0      0.0      0.0
```

42	06/15/2009 07:24	0.0	0.0	0.0
43	06/15/2009 07:25	0.0	0.0	0.0
44	06/15/2009 07:26	0.0	0.0	0.0
45	06/15/2009 07:27	0.0	0.0	0.0
46	06/15/2009 07:28	0.0	0.0	0.0
47	06/15/2009 07:29	0.0	0.0	0.0
48	06/15/2009 07:30	0.0	0.0	0.0
49	06/15/2009 07:31	0.0	0.0	0.1
50	06/15/2009 07:32	0.0	0.0	0.1
51	06/15/2009 07:33	0.0	0.0	0.1
52	06/15/2009 07:34	0.0	0.0	0.1
53	06/15/2009 07:35	0.0	0.0	0.2
54	06/15/2009 07:36	0.0	0.0	0.1
55	06/15/2009 07:37	0.0	0.0	0.1
56	06/15/2009 07:38	0.0	0.0	0.1
57	06/15/2009 07:39	0.0	0.0	0.1
58	06/15/2009 07:40	0.0	0.0	0.1
59	06/15/2009 07:41	0.0	0.0	0.1
60	06/15/2009 07:42	0.0	0.0	0.1
61	06/15/2009 07:43	0.0	0.0	0.1
62	06/15/2009 07:44	0.0	0.0	0.1
63	06/15/2009 07:45	0.0	0.0	0.1
64	06/15/2009 07:46	0.0	0.0	0.1
65	06/15/2009 07:47	0.0	0.0	0.1
66	06/15/2009 07:48	0.0	0.0	0.2
67	06/15/2009 07:49	0.0	0.0	0.2
68	06/15/2009 07:50	0.0	0.0	0.2
69	06/15/2009 07:51	0.0	0.0	0.2
70	06/15/2009 07:52	0.0	0.1	0.2
71	06/15/2009 07:53	0.0	0.1	0.2
72	06/15/2009 07:54	0.0	0.0	0.2
73	06/15/2009 07:55	0.0	0.0	0.1
74	06/15/2009 07:56	0.0	0.1	0.2
75	06/15/2009 07:57	0.1	0.1	0.3
76	06/15/2009 07:58	0.0	0.1	0.2
77	06/15/2009 07:59	0.0	0.0	0.2
78	06/15/2009 08:00	0.0	0.0	0.2
79	06/15/2009 08:01	0.0	0.0	0.2
80	06/15/2009 08:02	0.0	0.0	0.1
81	06/15/2009 08:03	0.0	0.0	0.2
82	06/15/2009 08:04	0.0	0.0	0.1
83	06/15/2009 08:05	0.0	0.0	0.1
84	06/15/2009 08:06	0.0	0.0	0.1
85	06/15/2009 08:07	0.0	0.0	0.2
86	06/15/2009 08:08	0.0	0.0	0.2
87	06/15/2009 08:09	0.0	0.0	0.2
88	06/15/2009 08:10	0.0	0.0	0.2
89	06/15/2009 08:11	0.0	0.1	0.3
90	06/15/2009 08:12	0.0	0.1	0.2
91	06/15/2009 08:13	0.0	0.1	0.3
92	06/15/2009 08:14	0.1	0.1	0.2
93	06/15/2009 08:15	0.0	0.1	0.2

94	06/15/2009 08:16	0.0	0.1	0.2
95	06/15/2009 08:17	0.0	0.1	0.2
96	06/15/2009 08:18	0.1	0.1	0.2
97	06/15/2009 08:19	0.0	0.1	0.3
98	06/15/2009 08:20	0.1	0.3	1.0
99	06/15/2009 08:21	0.2	0.2	0.4
100	06/15/2009 08:22	0.1	0.2	0.3
101	06/15/2009 08:23	0.1	0.1	0.2
102	06/15/2009 08:24	0.1	0.1	0.2
103	06/15/2009 08:25	0.1	0.1	0.2
104	06/15/2009 08:26	0.1	0.1	0.3
105	06/15/2009 08:27	0.1	0.1	0.2
106	06/15/2009 08:28	0.1	0.1	0.3
107	06/15/2009 08:29	0.1	0.1	0.3
108	06/15/2009 08:30	0.1	0.1	0.2
109	06/15/2009 08:31	0.1	0.1	0.2
110	06/15/2009 08:32	0.1	0.1	0.2
111	06/15/2009 08:33	0.1	0.1	0.2
112	06/15/2009 08:34	0.1	0.1	0.2
113	06/15/2009 08:35	0.1	0.1	0.2
114	06/15/2009 08:36	0.1	0.1	0.2
115	06/15/2009 08:37	0.1	0.1	0.2
116	06/15/2009 08:38	0.1	0.1	0.2
117	06/15/2009 08:39	0.1	0.2	0.3
118	06/15/2009 08:40	0.1	0.1	0.3
119	06/15/2009 08:41	0.1	0.1	0.3
120	06/15/2009 08:42	0.1	0.1	0.2
121	06/15/2009 08:43	0.1	0.1	0.3
122	06/15/2009 08:44	0.1	0.1	0.3
123	06/15/2009 08:45	0.1	0.1	0.3
124	06/15/2009 08:46	0.1	0.1	0.3
125	06/15/2009 08:47	0.1	0.1	0.2
126	06/15/2009 08:48	0.1	0.1	0.3
127	06/15/2009 08:49	0.1	0.1	0.2
128	06/15/2009 08:50	0.1	0.1	0.3
129	06/15/2009 08:51	0.1	0.2	0.3
130	06/15/2009 08:52	0.1	0.1	0.2
131	06/15/2009 08:53	0.1	0.1	0.3
132	06/15/2009 08:54	0.2	0.2	0.3
133	06/15/2009 08:55	0.1	0.2	0.3
134	06/15/2009 08:56	0.1	0.2	0.4
135	06/15/2009 08:57	0.1	0.2	0.3
136	06/15/2009 08:58	0.2	0.2	0.3
137	06/15/2009 08:59	0.2	0.2	0.2
138	06/15/2009 09:00	0.2	0.2	0.3
139	06/15/2009 09:01	0.2	0.2	0.3
140	06/15/2009 09:02	0.2	0.2	0.3
141	06/15/2009 09:03	0.2	0.2	0.2
142	06/15/2009 09:04	0.2	0.2	0.2
143	06/15/2009 09:05	0.2	0.2	0.3
144	06/15/2009 09:06	0.2	0.2	0.2
145	06/15/2009 09:07	0.2	0.2	0.3

146	06/15/2009 09:08	0.2	0.2	0.2
147	06/15/2009 09:09	0.2	0.2	0.2
148	06/15/2009 09:10	0.2	0.2	0.2
149	06/15/2009 09:11	0.2	0.2	0.2
150	06/15/2009 09:12	0.2	0.2	0.2
151	06/15/2009 09:13	0.2	0.2	0.2
152	06/15/2009 09:14	0.1	0.1	0.2
153	06/15/2009 09:15	0.2	0.2	0.2
154	06/15/2009 09:16	0.1	0.1	0.2
155	06/15/2009 09:17	0.2	0.2	0.3
156	06/15/2009 09:18	0.2	0.2	0.3
157	06/15/2009 09:19	0.1	0.2	0.3
158	06/15/2009 09:20	0.1	0.2	0.3
159	06/15/2009 09:21	0.2	0.2	0.3
160	06/15/2009 09:22	0.2	0.2	0.3
161	06/15/2009 09:23	0.2	0.2	0.3
162	06/15/2009 09:24	0.1	0.2	0.3
163	06/15/2009 09:25	0.1	0.2	0.3
164	06/15/2009 09:26	0.2	0.2	0.3
165	06/15/2009 09:27	0.2	0.2	0.3
166	06/15/2009 09:28	0.2	0.2	0.4
167	06/15/2009 09:29	0.1	0.2	0.4
168	06/15/2009 09:30	0.2	0.2	0.5
169	06/15/2009 09:31	0.1	0.2	0.3
170	06/15/2009 09:32	0.1	0.2	0.3
171	06/15/2009 09:33	0.2	0.2	0.3
172	06/15/2009 09:34	0.1	0.2	0.3
173	06/15/2009 09:35	0.1	0.2	0.3
174	06/15/2009 09:36	0.1	0.2	0.3
175	06/15/2009 09:37	0.1	0.2	0.4
176	06/15/2009 09:38	0.1	0.2	0.3
177	06/15/2009 09:39	0.2	0.2	0.3
178	06/15/2009 09:40	0.1	0.2	0.3
179	06/15/2009 09:41	0.2	0.2	0.3
180	06/15/2009 09:42	0.1	0.1	0.3
181	06/15/2009 09:43	0.2	0.2	0.3
182	06/15/2009 09:44	0.1	0.1	0.2
183	06/15/2009 09:45	0.1	0.1	0.3
184	06/15/2009 09:46	0.1	0.1	0.3
185	06/15/2009 09:47	0.1	0.2	0.3
186	06/15/2009 09:48	0.1	0.1	0.3
187	06/15/2009 09:49	0.1	0.1	0.3
188	06/15/2009 09:50	0.1	0.1	0.3
189	06/15/2009 09:51	0.1	0.1	0.3
190	06/15/2009 09:52	0.1	0.2	0.3
191	06/15/2009 09:53	0.1	0.2	0.3
192	06/15/2009 09:54	0.1	0.1	0.3
193	06/15/2009 09:55	0.1	0.2	0.3
194	06/15/2009 09:56	0.1	0.2	0.3
195	06/15/2009 09:57	0.2	0.2	0.3
196	06/15/2009 09:58	0.1	0.2	0.3
197	06/15/2009 09:59	0.1	0.2	0.3



198	06/15/2009 10:00	0.1	0.2	0.3
199	06/15/2009 10:01	0.1	0.2	0.3
200	06/15/2009 10:02	0.2	0.2	0.3
201	06/15/2009 10:03	0.1	0.2	0.3
202	06/15/2009 10:04	0.1	0.2	0.3
203	06/15/2009 10:05	0.1	0.2	0.3
204	06/15/2009 10:06	0.1	0.2	0.3
205	06/15/2009 10:07	0.1	0.2	0.3
206	06/15/2009 10:08	0.1	0.2	0.3
207	06/15/2009 10:09	0.1	0.2	0.3
208	06/15/2009 10:10	0.2	0.2	0.3
209	06/15/2009 10:11	0.2	0.2	0.3
210	06/15/2009 10:12	0.2	0.2	0.3
211	06/15/2009 10:13	0.2	0.2	0.3
212	06/15/2009 10:14	0.2	0.2	0.3
213	06/15/2009 10:15	0.2	0.2	0.3
214	06/15/2009 10:16	0.2	0.2	0.4
215	06/15/2009 10:17	0.2	0.2	0.3
216	06/15/2009 10:18	0.2	0.2	0.3
217	06/15/2009 10:19	0.2	0.2	0.3
218	06/15/2009 10:20	0.1	0.2	0.4
219	06/15/2009 10:21	0.2	0.2	0.3
220	06/15/2009 10:22	0.2	0.2	0.3
221	06/15/2009 10:23	0.2	0.2	0.3
222	06/15/2009 10:24	0.2	0.2	0.3
223	06/15/2009 10:25	0.2	0.2	0.3
224	06/15/2009 10:26	0.2	0.2	0.3
225	06/15/2009 10:27	0.2	0.2	0.3
226	06/15/2009 10:28	0.2	0.2	0.3
227	06/15/2009 10:29	0.2	0.2	0.3
228	06/15/2009 10:30	0.2	0.2	0.3
229	06/15/2009 10:31	0.2	0.2	0.3
230	06/15/2009 10:32	0.2	0.2	0.3
231	06/15/2009 10:33	0.2	0.2	0.3
232	06/15/2009 10:34	0.2	0.2	0.3
233	06/15/2009 10:35	0.2	0.2	0.4
234	06/15/2009 10:36	0.2	0.2	0.4
235	06/15/2009 10:37	0.2	0.2	0.3
236	06/15/2009 10:38	0.2	0.2	0.3
237	06/15/2009 10:39	0.1	0.2	0.5
238	06/15/2009 10:40	0.2	0.2	0.4
239	06/15/2009 10:41	0.1	0.2	0.4
240	06/15/2009 10:42	0.1	0.2	0.4
241	06/15/2009 10:43	0.2	0.2	0.3
242	06/15/2009 10:44	0.1	0.2	0.3
243	06/15/2009 10:45	0.1	0.2	0.3
244	06/15/2009 10:46	0.2	0.2	0.3
245	06/15/2009 10:47	0.1	0.2	0.3
246	06/15/2009 10:48	0.1	0.2	0.3
247	06/15/2009 10:49	0.1	0.2	0.3
248	06/15/2009 10:50	0.1	0.1	0.3
249	06/15/2009 10:51	0.1	0.2	0.3

250	06/15/2009 10:52	0.1	0.2	0.3
251	06/15/2009 10:53	0.1	0.2	0.3
252	06/15/2009 10:54	0.1	0.2	0.3
253	06/15/2009 10:55	0.2	0.2	0.3
254	06/15/2009 10:56	0.1	0.2	0.3
255	06/15/2009 10:57	0.2	0.2	0.3
256	06/15/2009 10:58	0.2	0.2	0.3
257	06/15/2009 10:59	0.2	0.2	0.3
258	06/15/2009 11:00	0.2	0.2	0.3
259	06/15/2009 11:01	0.1	0.2	0.3
260	06/15/2009 11:02	0.2	0.2	0.3
261	06/15/2009 11:03	0.2	0.2	0.3
262	06/15/2009 11:04	0.2	0.2	0.3
263	06/15/2009 11:05	0.2	0.2	0.3
264	06/15/2009 11:06	0.2	0.2	0.3
265	06/15/2009 11:07	0.2	0.2	0.3
266	06/15/2009 11:08	0.2	0.2	0.3
267	06/15/2009 11:09	0.2	0.2	0.3
268	06/15/2009 11:10	0.2	0.2	0.3
269	06/15/2009 11:11	0.1	0.2	0.3
270	06/15/2009 11:12	0.2	0.2	0.3
271	06/15/2009 11:13	0.2	0.2	0.3
272	06/15/2009 11:14	0.2	0.2	0.3
273	06/15/2009 11:15	0.1	0.2	0.3
274	06/15/2009 11:16	0.2	0.2	0.3
275	06/15/2009 11:17	0.1	0.2	0.3
276	06/15/2009 11:18	0.1	0.2	0.3
277	06/15/2009 11:19	0.2	0.2	0.3
278	06/15/2009 11:20	0.2	0.2	0.3
279	06/15/2009 11:21	0.2	0.2	0.3
280	06/15/2009 11:22	0.2	0.2	0.3
281	06/15/2009 11:23	0.2	0.2	0.3
282	06/15/2009 11:24	0.2	0.2	0.3
283	06/15/2009 11:25	0.2	0.2	0.3
284	06/15/2009 11:26	0.2	0.2	0.4
285	06/15/2009 11:27	0.2	0.2	0.3
286	06/15/2009 11:28	0.2	0.2	0.3
287	06/15/2009 11:29	0.2	0.2	0.3
288	06/15/2009 11:30	0.2	0.2	0.3
289	06/15/2009 11:31	0.2	0.2	0.3
290	06/15/2009 11:32	0.2	0.2	0.3
291	06/15/2009 11:33	0.2	0.2	0.3
292	06/15/2009 11:34	0.2	0.2	0.3
293	06/15/2009 11:35	0.2	0.2	0.4
294	06/15/2009 11:36	0.2	0.3	0.4
295	06/15/2009 11:37	0.3	0.3	0.4
296	06/15/2009 11:38	0.2	0.2	0.4
297	06/15/2009 11:39	0.2	0.3	0.4
298	06/15/2009 11:40	0.3	0.3	0.4
299	06/15/2009 11:41	0.2	0.3	0.4
300	06/15/2009 11:42	0.2	0.3	0.4
301	06/15/2009 11:43	0.2	0.3	0.4

302	06/15/2009 11:44	0.2	0.3	0.4
303	06/15/2009 11:45	0.3	0.3	0.4
304	06/15/2009 11:46	0.2	0.3	0.4
305	06/15/2009 11:47	0.2	0.3	0.4
306	06/15/2009 11:48	0.3	0.3	0.4
307	06/15/2009 11:49	0.3	0.3	0.4
308	06/15/2009 11:50	0.2	0.3	0.4
309	06/15/2009 11:51	0.3	0.3	0.4
310	06/15/2009 11:52	0.3	0.3	0.6
311	06/15/2009 11:53	0.3	0.3	0.4
312	06/15/2009 11:54	0.3	0.3	0.4
313	06/15/2009 11:55	0.2	0.3	0.4
314	06/15/2009 11:56	0.3	0.3	0.4
315	06/15/2009 11:57	0.2	0.3	0.4
316	06/15/2009 11:58	0.2	0.3	0.4
317	06/15/2009 11:59	0.2	0.3	0.4
318	06/15/2009 12:00	0.3	0.3	0.4
319	06/15/2009 12:01	0.3	0.3	0.4
320	06/15/2009 12:02	0.2	0.3	0.4
321	06/15/2009 12:03	0.3	0.3	0.4
322	06/15/2009 12:04	0.3	0.3	0.4
323	06/15/2009 12:05	0.3	0.3	0.4
324	06/15/2009 12:06	0.2	0.3	0.4
325	06/15/2009 12:07	0.2	0.3	0.4
326	06/15/2009 12:08	0.3	0.3	0.4
327	06/15/2009 12:09	0.2	0.3	0.4
328	06/15/2009 12:10	0.2	0.3	0.4
329	06/15/2009 12:11	0.3	0.3	0.4
330	06/15/2009 12:12	0.2	0.3	0.4
331	06/15/2009 12:13	0.2	0.3	0.4
332	06/15/2009 12:14	0.2	0.3	0.4
333	06/15/2009 12:15	0.2	0.2	0.4
334	06/15/2009 12:16	0.2	0.2	0.3
335	06/15/2009 12:17	0.2	0.2	0.3
336	06/15/2009 12:18	0.2	0.3	0.4
337	06/15/2009 12:19	0.2	0.2	0.4
338	06/15/2009 12:20	0.2	0.2	0.4
339	06/15/2009 12:21	0.2	0.3	0.4
340	06/15/2009 12:22	0.2	0.2	0.4
341	06/15/2009 12:23	0.2	0.3	0.4
342	06/15/2009 12:24	0.2	0.2	0.4
343	06/15/2009 12:25	0.2	0.2	0.3
344	06/15/2009 12:26	0.2	0.2	0.3
345	06/15/2009 12:27	0.2	0.2	0.3
346	06/15/2009 12:28	0.2	0.2	0.3
347	06/15/2009 12:29	0.2	0.2	0.3
348	06/15/2009 12:30	0.2	0.2	0.3
349	06/15/2009 12:31	0.2	0.2	0.3
350	06/15/2009 12:32	0.1	0.2	0.3
351	06/15/2009 12:33	0.2	0.2	0.3
352	06/15/2009 12:34	0.2	0.2	0.3
353	06/15/2009 12:35	0.2	0.2	0.3

354	06/15/2009 12:36	0.2	0.2	0.3
355	06/15/2009 12:37	0.1	0.2	0.3
356	06/15/2009 12:38	0.1	0.2	0.3
357	06/15/2009 12:39	0.1	0.2	0.3
358	06/15/2009 12:40	0.1	0.2	0.3
359	06/15/2009 12:41	0.2	0.2	0.3
360	06/15/2009 12:42	0.1	0.2	0.3
361	06/15/2009 12:43	0.1	0.2	0.3
362	06/15/2009 12:44	0.1	0.2	0.3
363	06/15/2009 12:45	0.1	0.1	0.3
364	06/15/2009 12:46	0.1	0.1	0.2
365	06/15/2009 12:47	0.1	0.1	0.3
366	06/15/2009 12:48	0.1	0.2	0.4
367	06/15/2009 12:49	0.1	0.2	0.3
368	06/15/2009 12:50	0.1	0.1	0.3
369	06/15/2009 12:51	0.1	0.1	0.2
370	06/15/2009 12:52	0.1	0.1	0.3
371	06/15/2009 12:53	0.1	0.1	0.3
372	06/15/2009 12:54	0.1	0.1	0.2
373	06/15/2009 12:55	0.1	0.1	0.3
374	06/15/2009 12:56	0.1	0.1	0.2
375	06/15/2009 12:57	0.1	0.1	0.2
376	06/15/2009 12:58	0.2	0.2	0.4
377	06/15/2009 12:59	0.2	0.3	0.5
378	06/15/2009 13:00	0.1	0.2	0.3
379	06/15/2009 13:01	0.1	0.2	0.3
380	06/15/2009 13:02	0.1	0.2	0.3
381	06/15/2009 13:03	0.1	0.1	0.3
382	06/15/2009 13:04	0.1	0.1	0.3
383	06/15/2009 13:05	0.1	0.1	0.3
384	06/15/2009 13:06	0.1	0.1	0.2
385	06/15/2009 13:07	0.1	0.2	0.3
386	06/15/2009 13:08	0.1	0.1	0.3
387	06/15/2009 13:09	0.1	0.2	0.3
388	06/15/2009 13:10	0.1	0.1	0.3
389	06/15/2009 13:11	0.1	0.1	0.3
390	06/15/2009 13:12	0.1	0.2	0.3
391	06/15/2009 13:13	0.1	0.1	0.3
392	06/15/2009 13:14	0.1	0.2	0.3
393	06/15/2009 13:15	0.1	0.2	0.3
394	06/15/2009 13:16	0.1	0.2	0.3
395	06/15/2009 13:17	0.2	0.3	0.5
396	06/15/2009 13:18	0.2	0.2	0.4
397	06/15/2009 13:19	0.1	0.2	0.3
398	06/15/2009 13:20	0.1	0.2	0.3
399	06/15/2009 13:21	0.1	0.2	0.3
400	06/15/2009 13:22	0.2	0.2	0.3
401	06/15/2009 13:23	0.1	0.2	0.3
402	06/15/2009 13:24	0.1	0.2	0.3
403	06/15/2009 13:25	0.1	0.1	0.3
404	06/15/2009 13:26	0.1	0.2	0.3
405	06/15/2009 13:27	0.1	0.2	0.3

406	06/15/2009 13:28	0.1	0.2	0.3
407	06/15/2009 13:29	0.1	0.2	0.3
408	06/15/2009 13:30	0.1	0.2	0.3
409	06/15/2009 13:31	0.1	0.1	0.3
410	06/15/2009 13:32	0.1	0.2	0.3
411	06/15/2009 13:33	0.1	0.1	0.3
412	06/15/2009 13:34	0.1	0.2	0.3
413	06/15/2009 13:35	0.1	0.2	0.3
414	06/15/2009 13:36	0.1	0.1	0.3
415	06/15/2009 13:37	0.1	0.2	0.3
416	06/15/2009 13:38	0.1	0.2	0.3
417	06/15/2009 13:39	0.1	0.2	0.3
418	06/15/2009 13:40	0.2	0.2	0.3
419	06/15/2009 13:41	0.1	0.2	0.3
420	06/15/2009 13:42	0.1	0.2	0.3
421	06/15/2009 13:43	0.1	0.2	0.3
422	06/15/2009 13:44	0.1	0.2	0.3
423	06/15/2009 13:45	0.1	0.2	0.3
424	06/15/2009 13:46	0.1	0.2	0.3
425	06/15/2009 13:47	0.1	0.2	0.3
426	06/15/2009 13:48	0.1	0.2	0.3
427	06/15/2009 13:49	0.1	0.1	0.3
428	06/15/2009 13:50	0.1	0.2	0.3
429	06/15/2009 13:51	0.1	0.2	0.3
430	06/15/2009 13:52	0.1	0.2	0.3
431	06/15/2009 13:53	0.1	0.2	0.3
432	06/15/2009 13:54	0.1	0.2	0.3
433	06/15/2009 13:55	0.1	0.2	0.3
434	06/15/2009 13:56	0.1	0.2	0.3
435	06/15/2009 13:57	0.1	0.2	0.5
436	06/15/2009 13:58	0.1	0.2	0.3
437	06/15/2009 13:59	0.1	0.1	0.2
438	06/15/2009 14:00	0.1	0.1	0.2
439	06/15/2009 14:01	0.1	0.1	0.3
440	06/15/2009 14:02	0.1	0.1	0.3
441	06/15/2009 14:03	0.1	0.2	0.4
442	06/15/2009 14:04	0.1	0.2	0.5
443	06/15/2009 14:05	0.2	0.2	0.3
444	06/15/2009 14:06	0.2	0.2	0.3
445	06/15/2009 14:07	0.1	0.2	0.3
446	06/15/2009 14:08	0.1	0.1	0.2
447	06/15/2009 14:09	0.1	0.1	0.3
448	06/15/2009 14:10	0.1	0.1	0.3
449	06/15/2009 14:11	0.1	0.1	0.3
450	06/15/2009 14:12	0.1	0.1	0.2
451	06/15/2009 14:13	0.1	0.1	0.2
452	06/15/2009 14:14	0.1	0.1	0.3
453	06/15/2009 14:15	0.1	0.1	0.3
454	06/15/2009 14:16	0.1	0.1	0.3
455	06/15/2009 14:17	0.1	0.1	0.2
456	06/15/2009 14:18	0.1	0.1	0.2
457	06/15/2009 14:19	0.1	0.1	0.2

458	06/15/2009 14:20	0.1	0.1	0.3
459	06/15/2009 14:21	0.1	0.1	0.2
460	06/15/2009 14:22	0.1	0.1	0.2
461	06/15/2009 14:23	0.1	0.1	0.2
462	06/15/2009 14:24	0.1	0.1	0.2
463	06/15/2009 14:25	0.1	0.1	0.3
464	06/15/2009 14:26	0.1	0.1	0.2
465	06/15/2009 14:27	0.1	0.1	0.2
466	06/15/2009 14:28	0.1	0.1	0.3
467	06/15/2009 14:29	0.1	0.1	0.2
468	06/15/2009 14:30	0.1	0.1	0.2
469	06/15/2009 14:31	0.1	0.1	0.2
470	06/15/2009 14:32	0.1	0.1	0.2
471	06/15/2009 14:33	0.1	0.1	0.3
472	06/15/2009 14:34	0.1	0.1	0.2
473	06/15/2009 14:35	0.1	0.1	0.2
474	06/15/2009 14:36	0.1	0.1	0.2
475	06/15/2009 14:37	0.1	0.1	0.2
476	06/15/2009 14:38	0.1	0.1	0.2
477	06/15/2009 14:39	0.1	0.1	0.2
478	06/15/2009 14:40	0.1	0.1	0.2
479	06/15/2009 14:41	0.1	0.1	0.2
480	06/15/2009 14:42	0.1	0.1	0.3
481	06/15/2009 14:43	0.1	0.1	0.2
482	06/15/2009 14:44	0.1	0.1	0.2
483	06/15/2009 14:45	0.1	0.1	0.3
484	06/15/2009 14:46	0.1	0.1	0.2
485	06/15/2009 14:47	0.1	0.2	0.5
486	06/15/2009 14:48	0.1	0.1	0.2
487	06/15/2009 14:49	0.1	0.1	0.2
488	06/15/2009 14:50	0.1	0.1	0.3
489	06/15/2009 14:51	0.1	0.1	0.3
490	06/15/2009 14:52	0.1	0.1	0.2
491	06/15/2009 14:53	0.1	0.1	0.2
492	06/15/2009 14:54	0.1	0.1	0.2
493	06/15/2009 14:55	0.1	0.1	0.2
494	06/15/2009 14:56	0.1	0.1	0.2
495	06/15/2009 14:57	0.1	0.1	0.2
496	06/15/2009 14:58	0.1	0.1	0.2
497	06/15/2009 14:59	0.0	0.1	0.2
498	06/15/2009 15:00	0.1	0.1	0.2
499	06/15/2009 15:01	0.0	0.1	0.2
500	06/15/2009 15:02	0.1	0.1	0.2
501	06/15/2009 15:03	0.1	0.1	0.2
502	06/15/2009 15:04	0.1	0.1	0.2
503	06/15/2009 15:05	0.1	0.1	0.2
504	06/15/2009 15:06	0.1	0.1	0.2
505	06/15/2009 15:07	0.1	0.1	0.2
506	06/15/2009 15:08	0.1	0.1	0.2
507	06/15/2009 15:09	0.1	0.1	0.2
508	06/15/2009 15:10	0.1	0.1	0.2
509	06/15/2009 15:11	0.1	0.1	0.2

510	06/15/2009 15:12	0.1	0.1	0.2
511	06/15/2009 15:13	0.0	0.1	0.2
512	06/15/2009 15:14	0.1	0.1	0.2
513	06/15/2009 15:15	0.1	0.4	5.0
514	06/15/2009 15:16	0.1	0.1	0.2
515	06/15/2009 15:17	0.1	0.1	1.1
516	06/15/2009 15:18	0.0	0.1	0.2
517	06/15/2009 15:19	0.0	0.1	0.3
518	06/15/2009 15:20	0.1	0.9	3.8
519	06/15/2009 15:21	0.1	0.2	1.9
520	06/15/2009 15:22	0.1	0.2	1.1
521	06/15/2009 15:23	0.0	0.1	0.3
522	06/15/2009 15:24	0.0	0.1	0.2
523	06/15/2009 15:25	0.0	0.0	0.1
524	06/15/2009 15:26	0.0	0.0	0.2
525	06/15/2009 15:27	0.0	0.1	0.2
526	06/15/2009 15:28	0.0	0.0	0.2
527	06/15/2009 15:29	0.0	0.0	0.1
528	06/15/2009 15:30	0.0	0.0	0.1
529	06/15/2009 15:31	0.0	0.0	0.1
530	06/15/2009 15:32	0.0	0.0	0.1
531	06/15/2009 15:33	0.0	0.0	0.2
532	06/15/2009 15:34	0.0	0.0	0.1
533	06/15/2009 15:35	0.0	0.0	0.2
534	06/15/2009 15:36	0.0	0.0	0.2
535	06/15/2009 15:37	0.0	0.0	0.1
536	06/15/2009 15:38	0.0	0.0	0.1
537	06/15/2009 15:39	0.0	0.1	0.2
538	06/15/2009 15:40	0.0	0.1	0.2
539	06/15/2009 15:41	0.0	0.0	0.2
540	06/15/2009 15:42	0.0	0.0	0.1
541	06/15/2009 15:43	0.0	0.0	0.2
542	06/15/2009 15:44	0.0	0.0	0.1
543	06/15/2009 15:45	0.0	0.0	0.1
544	06/15/2009 15:46	0.0	0.0	0.1
545	06/15/2009 15:47	0.0	0.0	0.2
546	06/15/2009 15:48	0.0	0.0	0.1
547	06/15/2009 15:49	0.0	0.0	0.2
548	06/15/2009 15:50	0.0	0.0	0.2
549	06/15/2009 15:51	0.0	0.0	0.2
550	06/15/2009 15:52	0.0	0.0	0.1
551	06/15/2009 15:53	0.0	0.0	0.2
552	06/15/2009 15:54	0.0	0.1	0.2
553	06/15/2009 15:55	0.1	0.2	0.5
554	06/15/2009 15:56	0.1	0.2	0.4
555	06/15/2009 15:57	0.1	0.1	0.2
556	06/15/2009 15:58	0.1	0.1	0.3
557	06/15/2009 15:59	0.1	0.1	0.3
558	06/15/2009 16:00	0.0	0.1	0.2
559	06/15/2009 16:01	0.1	0.2	0.5
560	06/15/2009 16:02	0.1	0.1	0.3
561	06/15/2009 16:03	0.1	0.1	0.2

562	06/15/2009 16:04	0.0	0.1	0.2
563	06/15/2009 16:05	0.0	0.1	0.2
564	06/15/2009 16:06	0.0	0.1	0.3
565	06/15/2009 16:07	0.0	0.1	0.2
566	06/15/2009 16:08	0.1	0.1	0.2
567	06/15/2009 16:09	0.0	0.1	0.2
568	06/15/2009 16:10	0.1	0.1	0.3
569	06/15/2009 16:11	0.1	0.1	0.3
570	06/15/2009 16:12	0.0	0.1	0.2
571	06/15/2009 16:13	0.0	0.1	0.2
572	06/15/2009 16:14	0.1	0.1	0.2
573	06/15/2009 16:15	0.1	0.1	0.3
574	06/15/2009 16:16	0.1	0.1	0.2
575	06/15/2009 16:17	0.1	0.1	0.2
576	06/15/2009 16:18	0.1	0.1	0.2
577	06/15/2009 16:19	0.1	0.1	0.3
578	06/15/2009 16:20	0.1	0.2	0.4
579	06/15/2009 16:21	0.1	0.1	0.3
580	06/15/2009 16:22	0.1	0.1	0.3



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 580 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 06/15/2009 06:31      0.0         0.0          0.0
2 06/15/2009 06:32      0.0         0.0          0.0
3 06/15/2009 06:33      0.0         0.0          0.0
4 06/15/2009 06:34      0.0         0.0          0.0
5 06/15/2009 06:35      0.0         0.0          0.0
6 06/15/2009 06:36      0.0         0.0          0.0
7 06/15/2009 06:37      0.0         0.0          0.0
8 06/15/2009 06:38      0.0         0.0          0.0
9 06/15/2009 06:39      0.0         0.0          0.0
10 06/15/2009 06:40      0.0         0.0          0.0
11 06/15/2009 06:41      0.0         0.0          0.0
12 06/15/2009 06:42      0.0         0.0          0.0
13 06/15/2009 06:43      0.0         0.0          0.0
14 06/15/2009 06:44      0.0         0.0          0.0
15 06/15/2009 06:45      0.0         0.0          0.0
16 06/15/2009 06:46      0.0         0.0          0.0
17 06/15/2009 06:47      0.0         0.0          0.0
18 06/15/2009 06:48      0.0         0.0          0.0
19 06/15/2009 06:49      0.0         0.0          0.0
20 06/15/2009 06:50      0.0         0.0          0.0
21 06/15/2009 06:51      0.0         0.0          0.0
22 06/15/2009 06:52      0.0         0.0          0.0
23 06/15/2009 06:53      0.0         0.0          0.0
24 06/15/2009 06:54      0.0         0.0          0.0
25 06/15/2009 06:55      0.0         0.0          0.0
26 06/15/2009 06:56      0.0         0.0          0.0
27 06/15/2009 06:57      0.0         0.0          0.0
28 06/15/2009 06:58      0.0         0.0          0.0
29 06/15/2009 06:59      0.0         0.0          0.0
30 06/15/2009 07:00      0.0         0.0          0.0
31 06/15/2009 07:01      0.0         0.0          0.0
32 06/15/2009 07:02      0.0         0.0          0.0
33 06/15/2009 07:03      0.0         0.0          0.0
34 06/15/2009 07:04      0.0         0.0          0.0
35 06/15/2009 07:05      0.0         0.0          0.0
36 06/15/2009 07:06      0.0         0.0          0.0
37 06/15/2009 07:07      0.0         0.0          0.0
38 06/15/2009 07:08      0.0         0.0          0.0
39 06/15/2009 07:09      0.0         0.0          0.0
40 06/15/2009 07:10      0.0         0.0          0.0
41 06/15/2009 07:11      0.0         0.0          0.0
```

42	06/15/2009 07:12	0.0	0.0	0.0
43	06/15/2009 07:13	0.0	0.0	0.0
44	06/15/2009 07:14	0.0	0.0	0.0
45	06/15/2009 07:15	0.0	0.0	0.0
46	06/15/2009 07:16	0.0	0.0	0.0
47	06/15/2009 07:17	0.0	0.0	0.0
48	06/15/2009 07:18	0.0	0.0	0.0
49	06/15/2009 07:19	0.0	0.0	0.0
50	06/15/2009 07:20	0.0	0.0	0.0
51	06/15/2009 07:21	0.0	0.0	0.0
52	06/15/2009 07:22	0.0	0.0	0.0
53	06/15/2009 07:23	0.0	0.0	0.0
54	06/15/2009 07:24	0.0	0.0	0.0
55	06/15/2009 07:25	0.0	0.0	0.0
56	06/15/2009 07:26	0.0	0.0	0.0
57	06/15/2009 07:27	0.0	0.0	0.0
58	06/15/2009 07:28	0.0	0.0	0.0
59	06/15/2009 07:29	0.0	0.0	0.0
60	06/15/2009 07:30	0.0	0.0	0.0
61	06/15/2009 07:31	0.0	0.0	0.0
62	06/15/2009 07:32	0.0	0.0	0.0
63	06/15/2009 07:33	0.0	0.0	0.0
64	06/15/2009 07:34	0.0	0.0	0.0
65	06/15/2009 07:35	0.0	0.0	0.0
66	06/15/2009 07:36	0.0	0.0	0.0
67	06/15/2009 07:37	0.0	0.0	0.0
68	06/15/2009 07:38	0.0	0.0	0.0
69	06/15/2009 07:39	0.0	0.0	0.0
70	06/15/2009 07:40	0.0	0.0	0.0
71	06/15/2009 07:41	0.0	0.0	0.0
72	06/15/2009 07:42	0.0	0.0	0.0
73	06/15/2009 07:43	0.0	0.0	0.0
74	06/15/2009 07:44	0.0	0.0	0.0
75	06/15/2009 07:45	0.0	0.0	0.0
76	06/15/2009 07:46	0.0	0.0	0.0
77	06/15/2009 07:47	0.0	0.0	0.0
78	06/15/2009 07:48	0.0	0.0	0.0
79	06/15/2009 07:49	0.0	0.0	0.0
80	06/15/2009 07:50	0.0	0.0	0.0
81	06/15/2009 07:51	0.0	0.0	0.0
82	06/15/2009 07:52	0.0	0.0	0.0
83	06/15/2009 07:53	0.0	0.0	0.0
84	06/15/2009 07:54	0.0	0.0	0.0
85	06/15/2009 07:55	0.0	0.0	0.0
86	06/15/2009 07:56	0.0	0.0	0.0
87	06/15/2009 07:57	0.0	0.0	0.0
88	06/15/2009 07:58	0.0	0.0	0.0
89	06/15/2009 07:59	0.0	0.0	0.0
90	06/15/2009 08:00	0.0	0.0	0.0
91	06/15/2009 08:01	0.0	0.0	0.0
92	06/15/2009 08:02	0.0	0.0	0.0
93	06/15/2009 08:03	0.0	0.0	0.0

94	06/15/2009 08:04	0.0	0.0	0.0
95	06/15/2009 08:05	0.0	0.0	0.0
96	06/15/2009 08:06	0.0	0.0	0.0
97	06/15/2009 08:07	0.0	0.0	0.0
98	06/15/2009 08:08	0.0	0.0	0.0
99	06/15/2009 08:09	0.0	0.0	0.0
100	06/15/2009 08:10	0.0	0.0	0.0
101	06/15/2009 08:11	0.0	0.0	0.0
102	06/15/2009 08:12	0.0	0.0	0.0
103	06/15/2009 08:13	0.0	0.0	0.0
104	06/15/2009 08:14	0.0	0.0	0.0
105	06/15/2009 08:15	0.0	0.0	0.0
106	06/15/2009 08:16	0.0	0.0	0.0
107	06/15/2009 08:17	0.0	0.0	0.0
108	06/15/2009 08:18	0.0	0.0	0.0
109	06/15/2009 08:19	0.0	0.0	0.0
110	06/15/2009 08:20	0.0	0.0	0.0
111	06/15/2009 08:21	0.0	0.0	0.0
112	06/15/2009 08:22	0.0	0.0	0.0
113	06/15/2009 08:23	0.0	0.0	0.0
114	06/15/2009 08:24	0.0	0.0	0.0
115	06/15/2009 08:25	0.0	0.0	0.0
116	06/15/2009 08:26	0.0	0.0	0.0
117	06/15/2009 08:27	0.0	0.0	0.0
118	06/15/2009 08:28	0.0	0.0	0.0
119	06/15/2009 08:29	0.0	0.0	0.0
120	06/15/2009 08:30	0.0	0.0	0.0
121	06/15/2009 08:31	0.0	0.0	0.0
122	06/15/2009 08:32	0.0	0.0	0.0
123	06/15/2009 08:33	0.0	0.0	0.0
124	06/15/2009 08:34	0.0	0.0	0.0
125	06/15/2009 08:35	0.0	0.0	0.0
126	06/15/2009 08:36	0.0	0.0	0.0
127	06/15/2009 08:37	0.0	0.0	0.0
128	06/15/2009 08:38	0.0	0.0	0.0
129	06/15/2009 08:39	0.0	0.0	0.0
130	06/15/2009 08:40	0.0	0.0	0.0
131	06/15/2009 08:41	0.0	0.0	0.0
132	06/15/2009 08:42	0.0	0.0	0.0
133	06/15/2009 08:43	0.0	0.0	0.0
134	06/15/2009 08:44	0.0	0.0	0.0
135	06/15/2009 08:45	0.0	0.0	0.0
136	06/15/2009 08:46	0.0	0.0	0.0
137	06/15/2009 08:47	0.0	0.0	0.0
138	06/15/2009 08:48	0.0	0.0	0.0
139	06/15/2009 08:49	0.0	0.0	0.0
140	06/15/2009 08:50	0.0	0.0	0.0
141	06/15/2009 08:51	0.0	0.0	0.0
142	06/15/2009 08:52	0.0	0.0	0.0
143	06/15/2009 08:53	0.0	0.0	0.0
144	06/15/2009 08:54	0.0	0.0	0.0
145	06/15/2009 08:55	0.0	0.0	0.0

146	06/15/2009 08:56	0.0	0.0	0.0
147	06/15/2009 08:57	0.0	0.0	0.0
148	06/15/2009 08:58	0.0	0.0	0.0
149	06/15/2009 08:59	0.0	0.0	0.0
150	06/15/2009 09:00	0.0	0.0	0.0
151	06/15/2009 09:01	0.0	0.0	0.0
152	06/15/2009 09:02	0.0	0.0	0.0
153	06/15/2009 09:03	0.0	0.0	0.0
154	06/15/2009 09:04	0.0	0.0	0.0
155	06/15/2009 09:05	0.0	0.0	0.0
156	06/15/2009 09:06	0.0	0.0	0.0
157	06/15/2009 09:07	0.0	0.0	0.0
158	06/15/2009 09:08	0.0	0.0	0.0
159	06/15/2009 09:09	0.0	0.0	0.0
160	06/15/2009 09:10	0.0	0.0	0.0
161	06/15/2009 09:11	0.0	0.0	0.0
162	06/15/2009 09:12	0.0	0.0	0.0
163	06/15/2009 09:13	0.0	0.0	0.0
164	06/15/2009 09:14	0.0	0.0	0.0
165	06/15/2009 09:15	0.0	0.0	0.0
166	06/15/2009 09:16	0.0	0.0	0.0
167	06/15/2009 09:17	0.0	0.0	0.0
168	06/15/2009 09:18	0.0	0.0	0.0
169	06/15/2009 09:19	0.0	0.0	0.0
170	06/15/2009 09:20	0.0	0.0	0.0
171	06/15/2009 09:21	0.0	0.0	0.0
172	06/15/2009 09:22	0.0	0.0	0.0
173	06/15/2009 09:23	0.0	0.0	0.0
174	06/15/2009 09:24	0.0	0.0	0.0
175	06/15/2009 09:25	0.0	0.0	0.0
176	06/15/2009 09:26	0.0	0.0	0.0
177	06/15/2009 09:27	0.0	0.0	0.0
178	06/15/2009 09:28	0.0	0.0	0.0
179	06/15/2009 09:29	0.0	0.0	0.0
180	06/15/2009 09:30	0.0	0.0	0.0
181	06/15/2009 09:31	0.0	0.0	0.0
182	06/15/2009 09:32	0.0	0.0	0.0
183	06/15/2009 09:33	0.0	0.0	0.0
184	06/15/2009 09:34	0.0	0.0	0.0
185	06/15/2009 09:35	0.0	0.0	0.0
186	06/15/2009 09:36	0.0	0.0	0.0
187	06/15/2009 09:37	0.0	0.0	0.0
188	06/15/2009 09:38	0.0	0.0	0.0
189	06/15/2009 09:39	0.0	0.0	0.0
190	06/15/2009 09:40	0.0	0.0	0.0
191	06/15/2009 09:41	0.0	0.0	0.0
192	06/15/2009 09:42	0.0	0.0	0.0
193	06/15/2009 09:43	0.0	0.0	0.0
194	06/15/2009 09:44	0.0	0.0	0.0
195	06/15/2009 09:45	0.0	0.0	0.0
196	06/15/2009 09:46	0.0	0.0	0.0
197	06/15/2009 09:47	0.0	0.0	0.0

198	06/15/2009 09:48	0.0	0.0	0.0
199	06/15/2009 09:49	0.0	0.0	0.0
200	06/15/2009 09:50	0.0	0.0	0.0
201	06/15/2009 09:51	0.0	0.0	0.0
202	06/15/2009 09:52	0.0	0.0	0.0
203	06/15/2009 09:53	0.0	0.0	0.0
204	06/15/2009 09:54	0.0	0.0	0.0
205	06/15/2009 09:55	0.0	0.0	0.0
206	06/15/2009 09:56	0.0	0.0	0.0
207	06/15/2009 09:57	0.0	0.0	0.0
208	06/15/2009 09:58	0.0	0.0	0.0
209	06/15/2009 09:59	0.0	0.0	0.0
210	06/15/2009 10:00	0.0	0.0	0.0
211	06/15/2009 10:01	0.0	0.0	0.0
212	06/15/2009 10:02	0.0	0.0	0.0
213	06/15/2009 10:03	0.0	0.0	0.0
214	06/15/2009 10:04	0.0	0.0	0.0
215	06/15/2009 10:05	0.0	0.0	0.0
216	06/15/2009 10:06	0.0	0.0	0.0
217	06/15/2009 10:07	0.0	0.0	0.0
218	06/15/2009 10:08	0.0	0.0	0.0
219	06/15/2009 10:09	0.0	0.0	0.0
220	06/15/2009 10:10	0.0	0.0	0.0
221	06/15/2009 10:11	0.0	0.0	0.0
222	06/15/2009 10:12	0.0	0.0	0.0
223	06/15/2009 10:13	0.0	0.0	0.0
224	06/15/2009 10:14	0.0	0.0	0.0
225	06/15/2009 10:15	0.0	0.0	0.0
226	06/15/2009 10:16	0.0	0.0	0.0
227	06/15/2009 10:17	0.0	0.0	0.0
228	06/15/2009 10:18	0.0	0.0	0.0
229	06/15/2009 10:19	0.0	0.0	0.0
230	06/15/2009 10:20	0.0	0.0	0.0
231	06/15/2009 10:21	0.0	0.0	0.0
232	06/15/2009 10:22	0.0	0.0	0.0
233	06/15/2009 10:23	0.0	0.0	0.0
234	06/15/2009 10:24	0.0	0.0	0.0
235	06/15/2009 10:25	0.0	0.0	0.0
236	06/15/2009 10:26	0.0	0.0	0.0
237	06/15/2009 10:27	0.0	0.0	0.0
238	06/15/2009 10:28	0.0	0.0	0.0
239	06/15/2009 10:29	0.0	0.0	0.0
240	06/15/2009 10:30	0.0	0.0	0.0
241	06/15/2009 10:31	0.0	0.0	0.0
242	06/15/2009 10:32	0.0	0.0	0.0
243	06/15/2009 10:33	0.0	0.0	0.0
244	06/15/2009 10:34	0.0	0.0	0.0
245	06/15/2009 10:35	0.0	0.0	0.0
246	06/15/2009 10:36	0.0	0.0	0.0
247	06/15/2009 10:37	0.0	0.0	0.0
248	06/15/2009 10:38	0.0	0.0	0.0
249	06/15/2009 10:39	0.0	0.0	0.0

250	06/15/2009 10:40	0.0	0.0	0.0
251	06/15/2009 10:41	0.0	0.0	0.0
252	06/15/2009 10:42	0.0	0.0	0.0
253	06/15/2009 10:43	0.0	0.0	0.0
254	06/15/2009 10:44	0.0	0.0	0.0
255	06/15/2009 10:45	0.0	0.0	0.0
256	06/15/2009 10:46	0.0	0.0	0.0
257	06/15/2009 10:47	0.0	0.0	0.0
258	06/15/2009 10:48	0.0	0.0	0.0
259	06/15/2009 10:49	0.0	0.0	0.0
260	06/15/2009 10:50	0.0	0.0	0.0
261	06/15/2009 10:51	0.0	0.0	0.0
262	06/15/2009 10:52	0.0	0.0	0.0
263	06/15/2009 10:53	0.0	0.0	0.0
264	06/15/2009 10:54	0.0	0.0	0.0
265	06/15/2009 10:55	0.0	0.0	0.0
266	06/15/2009 10:56	0.0	0.0	0.0
267	06/15/2009 10:57	0.0	0.0	0.0
268	06/15/2009 10:58	0.0	0.0	0.0
269	06/15/2009 10:59	0.0	0.0	0.0
270	06/15/2009 11:00	0.0	0.0	0.0
271	06/15/2009 11:01	0.0	0.0	0.0
272	06/15/2009 11:02	0.0	0.0	0.0
273	06/15/2009 11:03	0.0	0.0	0.0
274	06/15/2009 11:04	0.0	0.0	0.0
275	06/15/2009 11:05	0.0	0.0	0.0
276	06/15/2009 11:06	0.0	0.0	0.0
277	06/15/2009 11:07	0.0	0.0	0.0
278	06/15/2009 11:08	0.0	0.0	0.0
279	06/15/2009 11:09	0.0	0.0	0.0
280	06/15/2009 11:10	0.0	0.0	0.0
281	06/15/2009 11:11	0.0	0.0	0.0
282	06/15/2009 11:12	0.0	0.0	0.0
283	06/15/2009 11:13	0.0	0.0	0.0
284	06/15/2009 11:14	0.0	0.0	0.0
285	06/15/2009 11:15	0.0	0.0	0.0
286	06/15/2009 11:16	0.0	0.0	0.0
287	06/15/2009 11:17	0.0	0.0	0.0
288	06/15/2009 11:18	0.0	0.0	0.0
289	06/15/2009 11:19	0.0	0.0	0.0
290	06/15/2009 11:20	0.0	0.0	0.0
291	06/15/2009 11:21	0.0	0.0	0.0
292	06/15/2009 11:22	0.0	0.0	0.0
293	06/15/2009 11:23	0.0	0.0	0.0
294	06/15/2009 11:24	0.0	0.0	0.0
295	06/15/2009 11:25	0.0	0.0	0.0
296	06/15/2009 11:26	0.0	0.0	0.0
297	06/15/2009 11:27	0.0	0.0	0.0
298	06/15/2009 11:28	0.0	0.0	0.0
299	06/15/2009 11:29	0.0	0.0	0.0
300	06/15/2009 11:30	0.0	0.0	0.0
301	06/15/2009 11:31	0.0	0.0	0.0

302	06/15/2009 11:32	0.0	0.0	0.0
303	06/15/2009 11:33	0.0	0.0	0.0
304	06/15/2009 11:34	0.0	0.0	0.0
305	06/15/2009 11:35	0.0	0.0	0.0
306	06/15/2009 11:36	0.0	0.0	0.0
307	06/15/2009 11:37	0.0	0.0	0.0
308	06/15/2009 11:38	0.0	0.0	0.0
309	06/15/2009 11:39	0.0	0.0	0.0
310	06/15/2009 11:40	0.0	0.0	0.0
311	06/15/2009 11:41	0.0	0.0	0.0
312	06/15/2009 11:42	0.0	0.0	0.0
313	06/15/2009 11:43	0.0	0.0	0.0
314	06/15/2009 11:44	0.0	0.0	0.0
315	06/15/2009 11:45	0.0	0.0	0.0
316	06/15/2009 11:46	0.0	0.0	0.0
317	06/15/2009 11:47	0.0	0.0	0.0
318	06/15/2009 11:48	0.0	0.0	0.0
319	06/15/2009 11:49	0.0	0.0	0.0
320	06/15/2009 11:50	0.0	0.0	0.0
321	06/15/2009 11:51	0.0	0.0	0.0
322	06/15/2009 11:52	0.0	0.0	0.0
323	06/15/2009 11:53	0.0	0.0	0.0
324	06/15/2009 11:54	0.0	0.0	0.0
325	06/15/2009 11:55	0.0	0.0	0.0
326	06/15/2009 11:56	0.0	0.0	0.0
327	06/15/2009 11:57	0.0	0.0	0.0
328	06/15/2009 11:58	0.0	0.0	0.0
329	06/15/2009 11:59	0.0	0.0	0.0
330	06/15/2009 12:00	0.0	0.0	0.0
331	06/15/2009 12:01	0.0	0.0	0.0
332	06/15/2009 12:02	0.0	0.0	0.0
333	06/15/2009 12:03	0.0	0.0	0.0
334	06/15/2009 12:04	0.0	0.0	0.0
335	06/15/2009 12:05	0.0	0.0	0.0
336	06/15/2009 12:06	0.0	0.0	0.0
337	06/15/2009 12:07	0.0	0.0	0.0
338	06/15/2009 12:08	0.0	0.0	0.0
339	06/15/2009 12:09	0.0	0.0	0.0
340	06/15/2009 12:10	0.0	0.0	0.0
341	06/15/2009 12:11	0.0	0.0	0.0
342	06/15/2009 12:12	0.0	0.0	0.0
343	06/15/2009 12:13	0.0	0.0	0.0
344	06/15/2009 12:14	0.0	0.0	0.0
345	06/15/2009 12:15	0.0	0.0	0.0
346	06/15/2009 12:16	0.0	0.0	0.0
347	06/15/2009 12:17	0.0	0.0	0.0
348	06/15/2009 12:18	0.0	0.0	0.0
349	06/15/2009 12:19	0.0	0.0	0.0
350	06/15/2009 12:20	0.0	0.0	0.0
351	06/15/2009 12:21	0.0	0.0	0.0
352	06/15/2009 12:22	0.0	0.0	0.0
353	06/15/2009 12:23	0.0	0.0	0.0

354	06/15/2009 12:24	0.0	0.0	0.0
355	06/15/2009 12:25	0.0	0.0	0.0
356	06/15/2009 12:26	0.0	0.0	0.0
357	06/15/2009 12:27	0.0	0.0	0.0
358	06/15/2009 12:28	0.0	0.0	0.0
359	06/15/2009 12:29	0.0	0.0	0.0
360	06/15/2009 12:30	0.0	0.0	0.0
361	06/15/2009 12:31	0.0	0.0	0.0
362	06/15/2009 12:32	0.0	0.0	0.0
363	06/15/2009 12:33	0.0	0.0	0.0
364	06/15/2009 12:34	0.0	0.0	0.0
365	06/15/2009 12:35	0.0	0.0	0.0
366	06/15/2009 12:36	0.0	0.0	0.0
367	06/15/2009 12:37	0.0	0.0	0.0
368	06/15/2009 12:38	0.0	0.0	0.0
369	06/15/2009 12:39	0.0	0.0	0.0
370	06/15/2009 12:40	0.0	0.0	0.0
371	06/15/2009 12:41	0.0	0.0	0.0
372	06/15/2009 12:42	0.0	0.0	0.0
373	06/15/2009 12:43	0.0	0.0	0.0
374	06/15/2009 12:44	0.0	0.0	0.0
375	06/15/2009 12:45	0.0	0.0	0.0
376	06/15/2009 12:46	0.0	0.0	0.0
377	06/15/2009 12:47	0.0	0.0	0.0
378	06/15/2009 12:48	0.0	0.0	0.0
379	06/15/2009 12:49	0.0	0.0	0.0
380	06/15/2009 12:50	0.0	0.0	0.0
381	06/15/2009 12:51	0.0	0.0	0.0
382	06/15/2009 12:52	0.0	0.0	0.0
383	06/15/2009 12:53	0.0	0.0	0.0
384	06/15/2009 12:54	0.0	0.0	0.0
385	06/15/2009 12:55	0.0	0.0	0.0
386	06/15/2009 12:56	0.0	0.0	0.0
387	06/15/2009 12:57	0.0	0.0	0.0
388	06/15/2009 12:58	0.0	0.0	0.0
389	06/15/2009 12:59	0.0	0.0	0.0
390	06/15/2009 13:00	0.0	0.0	0.0
391	06/15/2009 13:01	0.0	0.0	0.0
392	06/15/2009 13:02	0.0	0.0	0.0
393	06/15/2009 13:03	0.0	0.0	0.0
394	06/15/2009 13:04	0.0	0.0	0.0
395	06/15/2009 13:05	0.0	0.0	0.0
396	06/15/2009 13:06	0.0	0.0	0.0
397	06/15/2009 13:07	0.0	0.0	0.0
398	06/15/2009 13:08	0.0	0.0	0.0
399	06/15/2009 13:09	0.0	0.0	0.0
400	06/15/2009 13:10	0.0	0.0	0.0
401	06/15/2009 13:11	0.0	0.0	0.0
402	06/15/2009 13:12	0.0	0.0	0.0
403	06/15/2009 13:13	0.0	0.0	0.0
404	06/15/2009 13:14	0.0	0.0	0.0
405	06/15/2009 13:15	0.0	0.0	0.0



406	06/15/2009 13:16	0.0	0.0	0.0
407	06/15/2009 13:17	0.0	0.0	0.0
408	06/15/2009 13:18	0.0	0.0	0.0
409	06/15/2009 13:19	0.0	0.0	0.0
410	06/15/2009 13:20	0.0	0.0	0.0
411	06/15/2009 13:21	0.0	0.0	0.0
412	06/15/2009 13:22	0.0	0.0	0.0
413	06/15/2009 13:23	0.0	0.0	0.0
414	06/15/2009 13:24	0.0	0.0	0.0
415	06/15/2009 13:25	0.0	0.0	0.0
416	06/15/2009 13:26	0.0	0.0	0.0
417	06/15/2009 13:27	0.0	0.0	0.0
418	06/15/2009 13:28	0.0	0.0	0.0
419	06/15/2009 13:29	0.0	0.0	0.0
420	06/15/2009 13:30	0.0	0.0	0.0
421	06/15/2009 13:31	0.0	0.0	0.0
422	06/15/2009 13:32	0.0	0.0	0.0
423	06/15/2009 13:33	0.0	0.0	0.0
424	06/15/2009 13:34	0.0	0.0	0.0
425	06/15/2009 13:35	0.0	0.0	0.0
426	06/15/2009 13:36	0.0	0.0	0.0
427	06/15/2009 13:37	0.0	0.0	0.0
428	06/15/2009 13:38	0.0	0.0	0.0
429	06/15/2009 13:39	0.0	0.0	0.0
430	06/15/2009 13:40	0.0	0.0	0.0
431	06/15/2009 13:41	0.0	0.0	0.0
432	06/15/2009 13:42	0.0	0.0	0.0
433	06/15/2009 13:43	0.0	0.0	0.0
434	06/15/2009 13:44	0.0	0.0	0.0
435	06/15/2009 13:45	0.0	0.0	0.0
436	06/15/2009 13:46	0.0	0.0	0.0
437	06/15/2009 13:47	0.0	0.0	0.0
438	06/15/2009 13:48	0.0	0.0	0.0
439	06/15/2009 13:49	0.0	0.0	0.0
440	06/15/2009 13:50	0.0	0.0	0.0
441	06/15/2009 13:51	0.0	0.0	0.0
442	06/15/2009 13:52	0.0	0.0	0.0
443	06/15/2009 13:53	0.0	0.0	0.0
444	06/15/2009 13:54	0.0	0.0	0.0
445	06/15/2009 13:55	0.0	0.0	0.0
446	06/15/2009 13:56	0.0	0.0	0.0
447	06/15/2009 13:57	0.0	0.0	0.0
448	06/15/2009 13:58	0.0	0.0	0.0
449	06/15/2009 13:59	0.0	0.0	0.0
450	06/15/2009 14:00	0.0	0.0	0.0
451	06/15/2009 14:01	0.0	0.0	0.0
452	06/15/2009 14:02	0.0	0.0	0.0
453	06/15/2009 14:03	0.0	0.0	0.0
454	06/15/2009 14:04	0.0	0.0	0.0
455	06/15/2009 14:05	0.0	0.0	0.0
456	06/15/2009 14:06	0.0	0.0	0.0
457	06/15/2009 14:07	0.0	0.0	0.0

458	06/15/2009 14:08	0.0	0.0	0.0
459	06/15/2009 14:09	0.0	0.0	0.0
460	06/15/2009 14:10	0.0	0.0	0.0
461	06/15/2009 14:11	0.0	0.0	0.0
462	06/15/2009 14:12	0.0	0.0	0.0
463	06/15/2009 14:13	0.0	0.0	0.0
464	06/15/2009 14:14	0.0	0.0	0.0
465	06/15/2009 14:15	0.0	0.0	0.0
466	06/15/2009 14:16	0.0	0.0	0.0
467	06/15/2009 14:17	0.0	0.0	0.0
468	06/15/2009 14:18	0.0	0.0	0.0
469	06/15/2009 14:19	0.0	0.0	0.0
470	06/15/2009 14:20	0.0	0.0	0.0
471	06/15/2009 14:21	0.0	0.0	0.0
472	06/15/2009 14:22	0.0	0.0	0.0
473	06/15/2009 14:23	0.0	0.0	0.0
474	06/15/2009 14:24	0.0	0.0	0.0
475	06/15/2009 14:25	0.0	0.0	0.0
476	06/15/2009 14:26	0.0	0.0	0.0
477	06/15/2009 14:27	0.0	0.0	0.0
478	06/15/2009 14:28	0.0	0.0	0.0
479	06/15/2009 14:29	0.0	0.0	0.0
480	06/15/2009 14:30	0.0	0.0	0.0
481	06/15/2009 14:31	0.0	0.0	0.0
482	06/15/2009 14:32	0.0	0.0	0.0
483	06/15/2009 14:33	0.0	0.0	0.0
484	06/15/2009 14:34	0.0	0.0	0.0
485	06/15/2009 14:35	0.0	0.0	0.0
486	06/15/2009 14:36	0.0	0.0	0.0
487	06/15/2009 14:37	0.0	0.0	0.0
488	06/15/2009 14:38	0.0	0.0	0.0
489	06/15/2009 14:39	0.0	0.0	0.0
490	06/15/2009 14:40	0.0	0.0	0.0
491	06/15/2009 14:41	0.0	0.0	0.0
492	06/15/2009 14:42	0.0	0.0	0.0
493	06/15/2009 14:43	0.0	0.0	0.0
494	06/15/2009 14:44	0.0	0.0	0.0
495	06/15/2009 14:45	0.0	0.0	0.0
496	06/15/2009 14:46	0.0	0.0	0.0
497	06/15/2009 14:47	0.0	0.0	0.0
498	06/15/2009 14:48	0.0	0.0	0.0
499	06/15/2009 14:49	0.0	0.0	0.0
500	06/15/2009 14:50	0.0	0.0	0.0
501	06/15/2009 14:51	0.0	0.0	0.0
502	06/15/2009 14:52	0.0	0.0	0.0
503	06/15/2009 14:53	0.0	0.0	0.0
504	06/15/2009 14:54	0.0	0.0	0.0
505	06/15/2009 14:55	0.0	0.0	0.0
506	06/15/2009 14:56	0.0	0.0	0.0
507	06/15/2009 14:57	0.0	0.0	0.0
508	06/15/2009 14:58	0.0	0.0	0.0
509	06/15/2009 14:59	0.0	0.0	0.0

510	06/15/2009 15:00	0.0	0.0	0.0
511	06/15/2009 15:01	0.0	0.0	0.0
512	06/15/2009 15:02	0.0	0.0	0.0
513	06/15/2009 15:03	0.0	0.0	0.0
514	06/15/2009 15:04	0.0	0.0	0.0
515	06/15/2009 15:05	0.0	0.0	0.0
516	06/15/2009 15:06	0.0	0.0	0.0
517	06/15/2009 15:07	0.0	0.0	0.0
518	06/15/2009 15:08	0.0	0.0	0.0
519	06/15/2009 15:09	0.0	0.0	0.0
520	06/15/2009 15:10	0.0	0.0	0.0
521	06/15/2009 15:11	0.0	0.0	0.0
522	06/15/2009 15:12	0.0	0.0	0.0
523	06/15/2009 15:13	0.0	0.0	0.0
524	06/15/2009 15:14	0.0	0.0	0.0
525	06/15/2009 15:15	0.0	0.0	0.0
526	06/15/2009 15:16	0.0	0.0	0.0
527	06/15/2009 15:17	0.0	0.0	0.0
528	06/15/2009 15:18	0.0	0.0	0.0
529	06/15/2009 15:19	0.0	0.0	0.0
530	06/15/2009 15:20	0.0	0.0	0.0
531	06/15/2009 15:21	0.0	0.0	0.0
532	06/15/2009 15:22	0.0	0.0	0.0
533	06/15/2009 15:23	0.0	0.0	0.0
534	06/15/2009 15:24	0.0	0.0	0.0
535	06/15/2009 15:25	0.0	0.0	0.0
536	06/15/2009 15:26	0.0	0.0	0.0
537	06/15/2009 15:27	0.0	0.0	0.0
538	06/15/2009 15:28	0.0	0.0	0.0
539	06/15/2009 15:29	0.0	0.0	0.0
540	06/15/2009 15:30	0.0	0.0	0.0
541	06/15/2009 15:31	0.0	0.0	0.0
542	06/15/2009 15:32	0.0	0.0	0.0
543	06/15/2009 15:33	0.0	0.0	0.0
544	06/15/2009 15:34	0.0	0.0	0.0
545	06/15/2009 15:35	0.0	0.0	0.0
546	06/15/2009 15:36	0.0	0.0	0.0
547	06/15/2009 15:37	0.0	0.0	0.0
548	06/15/2009 15:38	0.0	0.0	0.0
549	06/15/2009 15:39	0.0	0.0	0.0
550	06/15/2009 15:40	0.0	0.0	0.0
551	06/15/2009 15:41	0.0	0.0	0.0
552	06/15/2009 15:42	0.0	0.0	0.0
553	06/15/2009 15:43	0.0	0.0	0.0
554	06/15/2009 15:44	0.0	0.0	0.0
555	06/15/2009 15:45	0.0	0.0	0.0
556	06/15/2009 15:46	0.0	0.0	0.0
557	06/15/2009 15:47	0.0	0.0	0.0
558	06/15/2009 15:48	0.0	0.0	0.0
559	06/15/2009 15:49	0.0	0.0	0.0
560	06/15/2009 15:50	0.0	0.0	0.0
561	06/15/2009 15:51	0.0	0.0	0.0

562	06/15/2009 15:52	0.0	0.0	0.0
563	06/15/2009 15:53	0.0	0.0	0.0
564	06/15/2009 15:54	0.0	0.0	0.0
565	06/15/2009 15:55	0.0	0.0	0.0
566	06/15/2009 15:56	0.0	0.0	0.0
567	06/15/2009 15:57	0.0	0.0	0.0
568	06/15/2009 15:58	0.0	0.0	0.0
569	06/15/2009 15:59	0.0	0.0	0.0
570	06/15/2009 16:00	0.0	0.0	0.0
571	06/15/2009 16:01	0.0	0.0	0.0
572	06/15/2009 16:02	0.0	0.0	0.0
573	06/15/2009 16:03	0.0	0.0	0.0
574	06/15/2009 16:04	0.0	0.0	0.0
575	06/15/2009 16:05	0.0	0.0	0.0
576	06/15/2009 16:06	0.0	0.0	0.0
577	06/15/2009 16:07	0.0	0.0	0.0
578	06/15/2009 16:08	0.0	0.0	0.0
579	06/15/2009 16:09	0.0	0.0	0.0
580	06/15/2009 16:10	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 478 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/16/2009 07:20      0.0      0.0      0.0
2 06/16/2009 07:21      0.0      0.0      0.0
3 06/16/2009 07:22      0.0      0.0      0.0
4 06/16/2009 07:23      0.0      0.0      0.0
5 06/16/2009 07:24      0.0      0.0      0.0
6 06/16/2009 07:25      0.0      0.0      0.0
7 06/16/2009 07:26      0.0      0.0      0.0
8 06/16/2009 07:27      0.0      0.0      0.0
9 06/16/2009 07:28      0.0      0.0      0.0
10 06/16/2009 07:29      0.0      0.0      0.0
11 06/16/2009 07:30      0.0      0.0      0.0
12 06/16/2009 07:31      0.0      0.0      0.0
13 06/16/2009 07:32      0.0      0.0      0.0
14 06/16/2009 07:33      0.0      0.0      0.0
15 06/16/2009 07:34      0.0      0.0      0.0
16 06/16/2009 07:35      0.0      0.0      0.0
17 06/16/2009 07:36      0.0      0.0      0.0
18 06/16/2009 07:37      0.0      0.0      0.0
19 06/16/2009 07:38      0.0      0.0      0.0
20 06/16/2009 07:39      0.0      0.0      0.0
21 06/16/2009 07:40      0.0      0.0      0.0
22 06/16/2009 07:41      0.0      0.0      0.0
23 06/16/2009 07:42      0.0      0.0      0.0
24 06/16/2009 07:43      0.0      0.0      0.0
25 06/16/2009 07:44      0.0      0.0      0.0
26 06/16/2009 07:45      0.0      0.0      0.0
27 06/16/2009 07:46      0.0      0.0      0.0
28 06/16/2009 07:47      0.0      0.0      0.0
29 06/16/2009 07:48      0.0      0.0      0.0
30 06/16/2009 07:49      0.0      0.0      0.0
31 06/16/2009 07:50      0.0      0.0      0.0
32 06/16/2009 07:51      0.0      0.0      0.0
33 06/16/2009 07:52      0.0      0.0      0.0
34 06/16/2009 07:53      0.0      0.0      0.0
35 06/16/2009 07:54      0.0      0.0      0.0
36 06/16/2009 07:55      0.0      0.0      0.0
37 06/16/2009 07:56      0.0      0.0      0.0
38 06/16/2009 07:57      0.0      0.0      0.0
39 06/16/2009 07:58      0.0      0.0      0.0
40 06/16/2009 07:59      0.0      0.0      0.0
41 06/16/2009 08:00      0.0      0.0      0.0
```

42	06/16/2009 08:01	0.0	0.0	0.0
43	06/16/2009 08:02	0.0	0.0	0.0
44	06/16/2009 08:03	0.0	0.0	0.0
45	06/16/2009 08:04	0.0	0.0	0.0
46	06/16/2009 08:05	0.0	0.0	0.0
47	06/16/2009 08:06	0.0	0.0	0.0
48	06/16/2009 08:07	0.0	0.0	0.0
49	06/16/2009 08:08	0.0	0.0	0.0
50	06/16/2009 08:09	0.0	0.0	0.0
51	06/16/2009 08:10	0.0	0.0	0.0
52	06/16/2009 08:11	0.0	0.0	0.0
53	06/16/2009 08:12	0.0	0.0	0.0
54	06/16/2009 08:13	0.0	0.0	0.0
55	06/16/2009 08:14	0.0	0.0	0.0
56	06/16/2009 08:15	0.0	0.0	0.0
57	06/16/2009 08:16	0.0	0.0	0.0
58	06/16/2009 08:17	0.0	0.0	0.0
59	06/16/2009 08:18	0.0	0.0	0.0
60	06/16/2009 08:19	0.0	0.0	0.0
61	06/16/2009 08:20	0.0	0.0	0.0
62	06/16/2009 08:21	0.0	0.0	0.0
63	06/16/2009 08:22	0.0	0.0	0.0
64	06/16/2009 08:23	0.0	0.0	0.0
65	06/16/2009 08:24	0.0	0.0	0.0
66	06/16/2009 08:25	0.0	0.0	0.0
67	06/16/2009 08:26	0.0	0.0	0.0
68	06/16/2009 08:27	0.0	0.0	0.0
69	06/16/2009 08:28	0.0	0.0	0.0
70	06/16/2009 08:29	0.0	0.0	0.0
71	06/16/2009 08:30	0.0	0.0	0.0
72	06/16/2009 08:31	0.0	0.0	0.0
73	06/16/2009 08:32	0.0	0.0	0.0
74	06/16/2009 08:33	0.0	0.0	0.0
75	06/16/2009 08:34	0.0	0.0	0.0
76	06/16/2009 08:35	0.0	0.0	0.0
77	06/16/2009 08:36	0.0	0.0	0.0
78	06/16/2009 08:37	0.0	0.0	0.0
79	06/16/2009 08:38	0.0	0.0	0.0
80	06/16/2009 08:39	0.0	0.0	0.0
81	06/16/2009 08:40	0.0	0.0	0.0
82	06/16/2009 08:41	0.0	0.0	0.0
83	06/16/2009 08:42	0.0	0.0	0.0
84	06/16/2009 08:43	0.0	0.0	0.0
85	06/16/2009 08:44	0.0	0.0	0.0
86	06/16/2009 08:45	0.0	0.0	0.0
87	06/16/2009 08:46	0.0	0.0	0.0
88	06/16/2009 08:47	0.0	0.0	0.0
89	06/16/2009 08:48	0.0	0.0	0.0
90	06/16/2009 08:49	0.0	0.0	0.0
91	06/16/2009 08:50	0.0	0.0	0.0
92	06/16/2009 08:51	0.0	0.0	0.0
93	06/16/2009 08:52	0.0	0.0	0.0

94	06/16/2009 08:53	0.0	0.0	0.0
95	06/16/2009 08:54	0.0	0.0	0.0
96	06/16/2009 08:55	0.0	0.0	0.0
97	06/16/2009 08:56	0.0	0.0	0.0
98	06/16/2009 08:57	0.0	0.0	0.0
99	06/16/2009 08:58	0.0	0.0	0.0
100	06/16/2009 08:59	0.0	0.0	0.0
101	06/16/2009 09:00	0.0	0.0	0.0
102	06/16/2009 09:01	0.0	0.0	0.0
103	06/16/2009 09:02	0.0	0.0	0.0
104	06/16/2009 09:03	0.0	0.0	0.0
105	06/16/2009 09:04	0.0	0.0	0.0
106	06/16/2009 09:05	0.0	0.0	0.0
107	06/16/2009 09:06	0.0	0.0	0.0
108	06/16/2009 09:07	0.0	0.0	0.0
109	06/16/2009 09:08	0.0	0.0	0.0
110	06/16/2009 09:09	0.0	0.0	0.0
111	06/16/2009 09:10	0.0	0.0	0.0
112	06/16/2009 09:11	0.0	0.0	0.0
113	06/16/2009 09:12	0.0	0.0	0.0
114	06/16/2009 09:13	0.0	0.0	0.0
115	06/16/2009 09:14	0.0	0.0	0.0
116	06/16/2009 09:15	0.0	0.0	0.0
117	06/16/2009 09:16	0.0	0.0	0.0
118	06/16/2009 09:17	0.0	0.0	0.0
119	06/16/2009 09:18	0.0	0.0	0.0
120	06/16/2009 09:19	0.0	0.0	0.0
121	06/16/2009 09:20	0.0	0.0	0.0
122	06/16/2009 09:21	0.0	0.0	0.0
123	06/16/2009 09:22	0.0	0.0	0.0
124	06/16/2009 09:23	0.0	0.0	0.0
125	06/16/2009 09:24	0.0	0.0	0.0
126	06/16/2009 09:25	0.0	0.0	0.0
127	06/16/2009 09:26	0.0	0.0	0.0
128	06/16/2009 09:27	0.0	0.0	0.0
129	06/16/2009 09:28	0.0	0.0	0.0
130	06/16/2009 09:29	0.0	0.0	0.0
131	06/16/2009 09:30	0.0	0.0	0.0
132	06/16/2009 09:31	0.0	0.0	0.0
133	06/16/2009 09:32	0.0	0.0	0.0
134	06/16/2009 09:33	0.0	0.0	0.0
135	06/16/2009 09:34	0.0	0.0	0.0
136	06/16/2009 09:35	0.0	0.0	0.0
137	06/16/2009 09:36	0.0	0.0	0.0
138	06/16/2009 09:37	0.0	0.0	0.0
139	06/16/2009 09:38	0.0	0.0	0.0
140	06/16/2009 09:39	0.0	0.0	0.0
141	06/16/2009 09:40	0.0	0.0	0.0
142	06/16/2009 09:41	0.0	0.0	0.0
143	06/16/2009 09:42	0.0	0.0	0.0
144	06/16/2009 09:43	0.0	0.0	0.0
145	06/16/2009 09:44	0.0	0.0	0.0

146	06/16/2009 09:45	0.0	0.0	0.0
147	06/16/2009 09:46	0.0	0.0	0.0
148	06/16/2009 09:47	0.0	0.0	0.0
149	06/16/2009 09:48	0.0	0.0	0.0
150	06/16/2009 09:49	0.0	0.0	0.0
151	06/16/2009 09:50	0.0	0.0	0.0
152	06/16/2009 09:51	0.0	0.0	0.0
153	06/16/2009 09:52	0.0	0.0	0.0
154	06/16/2009 09:53	0.0	0.0	0.0
155	06/16/2009 09:54	0.0	0.0	0.0
156	06/16/2009 09:55	0.0	0.0	0.0
157	06/16/2009 09:56	0.0	0.0	0.0
158	06/16/2009 09:57	0.0	0.0	0.0
159	06/16/2009 09:58	0.0	0.0	0.0
160	06/16/2009 09:59	0.0	0.0	0.0
161	06/16/2009 10:00	0.0	0.0	0.0
162	06/16/2009 10:01	0.0	0.0	0.0
163	06/16/2009 10:02	0.0	0.0	0.0
164	06/16/2009 10:03	0.0	0.0	0.0
165	06/16/2009 10:04	0.0	0.0	0.0
166	06/16/2009 10:05	0.0	0.0	0.0
167	06/16/2009 10:06	0.0	0.0	0.0
168	06/16/2009 10:07	0.0	0.0	0.0
169	06/16/2009 10:08	0.0	0.0	0.0
170	06/16/2009 10:09	0.0	0.0	0.0
171	06/16/2009 10:10	0.0	0.0	0.0
172	06/16/2009 10:11	0.0	0.0	0.0
173	06/16/2009 10:12	0.0	0.0	0.0
174	06/16/2009 10:13	0.0	0.0	0.0
175	06/16/2009 10:14	0.0	0.0	0.0
176	06/16/2009 10:15	0.0	0.0	0.0
177	06/16/2009 10:16	0.0	0.0	0.0
178	06/16/2009 10:17	0.0	0.0	0.0
179	06/16/2009 10:18	0.0	0.0	0.0
180	06/16/2009 10:19	0.0	0.0	0.0
181	06/16/2009 10:20	0.0	0.0	0.0
182	06/16/2009 10:21	0.0	0.0	0.0
183	06/16/2009 10:22	0.0	0.0	0.0
184	06/16/2009 10:23	0.0	0.0	0.0
185	06/16/2009 10:24	0.0	0.0	0.0
186	06/16/2009 10:25	0.0	0.0	0.0
187	06/16/2009 10:26	0.0	0.0	0.0
188	06/16/2009 10:27	0.0	0.0	0.0
189	06/16/2009 10:28	0.0	0.0	0.0
190	06/16/2009 10:29	0.0	0.0	0.0
191	06/16/2009 10:30	0.0	0.0	0.0
192	06/16/2009 10:31	0.0	0.0	0.0
193	06/16/2009 10:32	0.0	0.0	0.0
194	06/16/2009 10:33	0.0	0.0	0.0
195	06/16/2009 10:34	0.0	0.0	0.0
196	06/16/2009 10:35	0.0	0.0	0.0
197	06/16/2009 10:36	0.0	0.0	0.0



198	06/16/2009 10:37	0.0	0.0	0.0
199	06/16/2009 10:38	0.0	0.0	0.0
200	06/16/2009 10:39	0.0	0.0	0.0
201	06/16/2009 10:40	0.0	0.0	0.0
202	06/16/2009 10:41	0.0	0.0	0.0
203	06/16/2009 10:42	0.0	0.0	0.0
204	06/16/2009 10:43	0.0	0.0	0.0
205	06/16/2009 10:44	0.0	0.0	0.0
206	06/16/2009 10:45	0.0	0.0	0.0
207	06/16/2009 10:46	0.0	0.0	0.0
208	06/16/2009 10:47	0.0	0.0	0.0
209	06/16/2009 10:48	0.0	0.0	0.0
210	06/16/2009 10:49	0.0	0.0	0.0
211	06/16/2009 10:50	0.0	0.0	0.0
212	06/16/2009 10:51	0.0	0.0	0.0
213	06/16/2009 10:52	0.0	0.0	0.0
214	06/16/2009 10:53	0.0	0.0	0.0
215	06/16/2009 10:54	0.0	0.0	0.0
216	06/16/2009 10:55	0.0	0.0	0.0
217	06/16/2009 10:56	0.0	0.0	0.0
218	06/16/2009 10:57	0.0	0.0	0.0
219	06/16/2009 10:58	0.0	0.0	0.0
220	06/16/2009 10:59	0.0	0.0	0.0
221	06/16/2009 11:00	0.0	0.0	0.0
222	06/16/2009 11:01	0.0	0.0	0.0
223	06/16/2009 11:02	0.0	0.0	0.0
224	06/16/2009 11:03	0.0	0.0	0.0
225	06/16/2009 11:04	0.0	0.0	0.0
226	06/16/2009 11:05	0.0	0.0	0.0
227	06/16/2009 11:06	0.0	0.0	0.0
228	06/16/2009 11:07	0.0	0.0	0.0
229	06/16/2009 11:08	0.0	0.0	0.0
230	06/16/2009 11:09	0.0	0.0	0.0
231	06/16/2009 11:10	0.0	0.0	0.0
232	06/16/2009 11:11	0.0	0.0	0.0
233	06/16/2009 11:12	0.0	0.0	0.0
234	06/16/2009 11:13	0.0	0.0	0.0
235	06/16/2009 11:14	0.0	0.0	0.0
236	06/16/2009 11:15	0.0	0.0	0.0
237	06/16/2009 11:16	0.0	0.0	0.0
238	06/16/2009 11:17	0.0	0.0	0.0
239	06/16/2009 11:18	0.0	0.0	0.0
240	06/16/2009 11:19	0.0	0.0	0.0
241	06/16/2009 11:20	0.0	0.0	0.0
242	06/16/2009 11:21	0.0	0.0	0.0
243	06/16/2009 11:22	0.0	0.0	0.0
244	06/16/2009 11:23	0.0	0.0	0.0
245	06/16/2009 11:24	0.0	0.0	0.0
246	06/16/2009 11:25	0.0	0.0	0.0
247	06/16/2009 11:26	0.0	0.0	0.0
248	06/16/2009 11:27	0.0	0.0	0.0
249	06/16/2009 11:28	0.0	0.0	0.0

250	06/16/2009 11:29	0.0	0.0	0.0
251	06/16/2009 11:30	0.0	0.0	0.0
252	06/16/2009 11:31	0.0	0.0	0.0
253	06/16/2009 11:32	0.0	0.0	0.0
254	06/16/2009 11:33	0.0	0.0	0.0
255	06/16/2009 11:34	0.0	0.0	0.0
256	06/16/2009 11:35	0.0	0.0	0.0
257	06/16/2009 11:36	0.0	0.0	0.0
258	06/16/2009 11:37	0.0	0.0	0.0
259	06/16/2009 11:38	0.0	0.0	0.0
260	06/16/2009 11:39	0.0	0.0	0.0
261	06/16/2009 11:40	0.0	0.0	0.0
262	06/16/2009 11:41	0.0	0.0	0.0
263	06/16/2009 11:42	0.0	0.0	0.0
264	06/16/2009 11:43	0.0	0.0	0.0
265	06/16/2009 11:44	0.0	0.0	0.0
266	06/16/2009 11:45	0.0	0.0	0.0
267	06/16/2009 11:46	0.0	0.0	0.0
268	06/16/2009 11:47	0.0	0.0	0.0
269	06/16/2009 11:48	0.0	0.0	0.0
270	06/16/2009 11:49	0.0	0.0	0.0
271	06/16/2009 11:50	0.0	0.0	0.0
272	06/16/2009 11:51	0.0	0.0	0.0
273	06/16/2009 11:52	0.0	0.0	0.0
274	06/16/2009 11:53	0.0	0.0	0.0
275	06/16/2009 11:54	0.0	0.0	0.0
276	06/16/2009 11:55	0.0	0.0	0.0
277	06/16/2009 11:56	0.0	0.0	0.0
278	06/16/2009 11:57	0.0	0.0	0.0
279	06/16/2009 11:58	0.0	0.0	0.0
280	06/16/2009 11:59	0.0	0.0	0.0
281	06/16/2009 12:00	0.0	0.0	0.0
282	06/16/2009 12:01	0.0	0.0	0.0
283	06/16/2009 12:02	0.0	0.0	0.0
284	06/16/2009 12:03	0.0	0.0	0.0
285	06/16/2009 12:04	0.0	0.0	0.0
286	06/16/2009 12:05	0.0	0.0	0.0
287	06/16/2009 12:06	0.0	0.0	0.0
288	06/16/2009 12:07	0.0	0.0	0.0
289	06/16/2009 12:08	0.0	0.0	0.0
290	06/16/2009 12:09	0.0	0.0	0.0
291	06/16/2009 12:10	0.0	0.0	0.0
292	06/16/2009 12:11	0.0	0.0	0.0
293	06/16/2009 12:12	0.0	0.0	0.0
294	06/16/2009 12:13	0.0	0.0	0.0
295	06/16/2009 12:14	0.0	0.0	0.0
296	06/16/2009 12:15	0.0	0.0	0.0
297	06/16/2009 12:16	0.0	0.0	0.0
298	06/16/2009 12:17	0.0	0.0	0.0
299	06/16/2009 12:18	0.0	0.0	0.0
300	06/16/2009 12:19	0.0	0.0	0.0
301	06/16/2009 12:20	0.0	0.0	0.0

302	06/16/2009 12:21	0.0	0.0	0.0
303	06/16/2009 12:22	0.0	0.0	0.0
304	06/16/2009 12:23	0.0	0.0	0.0
305	06/16/2009 12:24	0.0	0.0	0.0
306	06/16/2009 12:25	0.0	0.0	0.0
307	06/16/2009 12:26	0.0	0.0	0.0
308	06/16/2009 12:27	0.0	0.0	0.0
309	06/16/2009 12:28	0.0	0.0	0.0
310	06/16/2009 12:29	0.0	0.0	0.0
311	06/16/2009 12:30	0.0	0.0	0.0
312	06/16/2009 12:31	0.0	0.0	0.0
313	06/16/2009 12:32	0.0	0.0	0.0
314	06/16/2009 12:33	0.0	0.0	0.0
315	06/16/2009 12:34	0.0	0.0	0.0
316	06/16/2009 12:35	0.0	0.0	0.0
317	06/16/2009 12:36	0.0	0.0	0.0
318	06/16/2009 12:37	0.0	0.0	0.0
319	06/16/2009 12:38	0.0	0.0	0.0
320	06/16/2009 12:39	0.0	0.0	0.0
321	06/16/2009 12:40	0.0	0.0	0.0
322	06/16/2009 12:41	0.0	0.0	0.0
323	06/16/2009 12:42	0.0	0.0	0.0
324	06/16/2009 12:43	0.0	0.0	0.0
325	06/16/2009 12:44	0.0	0.0	0.0
326	06/16/2009 12:45	0.0	0.0	0.0
327	06/16/2009 12:46	0.0	0.0	0.0
328	06/16/2009 12:47	0.0	0.0	0.0
329	06/16/2009 12:48	0.0	0.0	0.0
330	06/16/2009 12:49	0.0	0.0	0.0
331	06/16/2009 12:50	0.0	0.0	0.0
332	06/16/2009 12:51	0.0	0.0	0.0
333	06/16/2009 12:52	0.0	0.0	0.0
334	06/16/2009 12:53	0.0	0.0	0.0
335	06/16/2009 12:54	0.0	0.0	0.0
336	06/16/2009 12:55	0.0	0.0	0.0
337	06/16/2009 12:56	0.0	0.0	0.0
338	06/16/2009 12:57	0.0	0.0	0.0
339	06/16/2009 12:58	0.0	0.0	0.0
340	06/16/2009 12:59	0.0	0.0	0.0
341	06/16/2009 13:00	0.0	0.0	0.0
342	06/16/2009 13:01	0.0	0.0	0.0
343	06/16/2009 13:02	0.0	0.0	0.0
344	06/16/2009 13:03	0.0	0.0	0.0
345	06/16/2009 13:04	0.0	0.0	0.0
346	06/16/2009 13:05	0.0	0.0	0.0
347	06/16/2009 13:06	0.0	0.0	0.0
348	06/16/2009 13:07	0.0	0.0	0.0
349	06/16/2009 13:08	0.0	0.0	0.0
350	06/16/2009 13:09	0.0	0.0	0.0
351	06/16/2009 13:10	0.0	0.0	0.0
352	06/16/2009 13:11	0.0	0.0	0.0
353	06/16/2009 13:12	0.0	0.0	0.0

354	06/16/2009 13:13	0.0	0.0	0.0
355	06/16/2009 13:14	0.0	0.0	0.0
356	06/16/2009 13:15	0.0	0.0	0.0
357	06/16/2009 13:16	0.0	0.0	0.0
358	06/16/2009 13:17	0.0	0.0	0.0
359	06/16/2009 13:18	0.0	0.0	0.0
360	06/16/2009 13:19	0.0	0.0	0.0
361	06/16/2009 13:20	0.0	0.0	0.0
362	06/16/2009 13:21	0.0	0.0	0.0
363	06/16/2009 13:22	0.0	0.0	0.0
364	06/16/2009 13:23	0.0	0.0	0.0
365	06/16/2009 13:24	0.0	0.0	0.0
366	06/16/2009 13:25	0.0	0.0	0.0
367	06/16/2009 13:26	0.0	0.0	0.0
368	06/16/2009 13:27	0.0	0.0	0.0
369	06/16/2009 13:28	0.0	0.0	0.0
370	06/16/2009 13:29	0.0	0.0	0.0
371	06/16/2009 13:30	0.0	0.0	0.0
372	06/16/2009 13:31	0.0	0.0	0.0
373	06/16/2009 13:32	0.0	0.0	0.0
374	06/16/2009 13:33	0.0	0.0	0.0
375	06/16/2009 13:34	0.0	0.0	0.0
376	06/16/2009 13:35	0.0	0.0	0.0
377	06/16/2009 13:36	0.0	0.0	0.0
378	06/16/2009 13:37	0.0	0.0	0.0
379	06/16/2009 13:38	0.0	0.0	0.0
380	06/16/2009 13:39	0.0	0.0	0.0
381	06/16/2009 13:40	0.0	0.0	0.0
382	06/16/2009 13:41	0.0	0.0	0.0
383	06/16/2009 13:42	0.0	0.0	0.0
384	06/16/2009 13:43	0.0	0.0	0.0
385	06/16/2009 13:44	0.0	0.0	0.0
386	06/16/2009 13:45	0.0	0.0	0.0
387	06/16/2009 13:46	0.0	0.0	0.0
388	06/16/2009 13:47	0.0	0.0	0.0
389	06/16/2009 13:48	0.0	0.0	0.0
390	06/16/2009 13:49	0.0	0.0	0.0
391	06/16/2009 13:50	0.0	0.0	0.0
392	06/16/2009 13:51	0.0	0.0	0.0
393	06/16/2009 13:52	0.0	0.0	0.0
394	06/16/2009 13:53	0.0	0.0	0.0
395	06/16/2009 13:54	0.0	0.0	0.0
396	06/16/2009 13:55	0.0	0.0	0.0
397	06/16/2009 13:56	0.0	0.0	0.0
398	06/16/2009 13:57	0.0	0.0	0.0
399	06/16/2009 13:58	0.0	0.0	0.0
400	06/16/2009 13:59	0.0	0.0	0.0
401	06/16/2009 14:00	0.0	0.0	0.0
402	06/16/2009 14:01	0.0	0.0	0.0
403	06/16/2009 14:02	0.0	0.0	0.0
404	06/16/2009 14:03	0.0	0.0	0.0
405	06/16/2009 14:04	0.0	0.0	0.0

406	06/16/2009 14:05	0.0	0.0	0.0
407	06/16/2009 14:06	0.0	0.0	0.0
408	06/16/2009 14:07	0.0	0.0	0.0
409	06/16/2009 14:08	0.0	0.0	0.0
410	06/16/2009 14:09	0.0	0.0	0.0
411	06/16/2009 14:10	0.0	0.0	0.0
412	06/16/2009 14:11	0.0	0.0	0.0
413	06/16/2009 14:12	0.0	0.0	0.0
414	06/16/2009 14:13	0.0	0.0	0.0
415	06/16/2009 14:14	0.0	0.0	0.0
416	06/16/2009 14:15	0.0	0.0	0.0
417	06/16/2009 14:16	0.0	0.0	0.0
418	06/16/2009 14:17	0.0	0.0	0.0
419	06/16/2009 14:18	0.0	0.0	0.0
420	06/16/2009 14:19	0.0	0.0	0.0
421	06/16/2009 14:20	0.0	0.0	0.0
422	06/16/2009 14:21	0.0	0.0	0.0
423	06/16/2009 14:22	0.0	0.0	0.0
424	06/16/2009 14:23	0.0	0.0	0.0
425	06/16/2009 14:24	0.0	0.0	0.0
426	06/16/2009 14:25	0.0	0.0	0.0
427	06/16/2009 14:26	0.0	0.0	0.0
428	06/16/2009 14:27	0.0	0.0	0.0
429	06/16/2009 14:28	0.0	0.0	0.0
430	06/16/2009 14:29	0.0	0.0	0.0
431	06/16/2009 14:30	0.0	0.0	0.0
432	06/16/2009 14:31	0.0	0.0	0.0
433	06/16/2009 14:32	0.0	0.0	0.0
434	06/16/2009 14:33	0.0	0.0	0.0
435	06/16/2009 14:34	0.0	0.0	0.0
436	06/16/2009 14:35	0.0	0.0	0.0
437	06/16/2009 14:36	0.0	0.0	0.0
438	06/16/2009 14:37	0.0	0.0	0.0
439	06/16/2009 14:38	0.0	0.0	0.0
440	06/16/2009 14:39	0.0	0.0	0.0
441	06/16/2009 14:40	0.0	0.0	0.0
442	06/16/2009 14:41	0.0	0.0	0.0
443	06/16/2009 14:42	0.0	0.0	0.0
444	06/16/2009 14:43	0.0	0.0	0.0
445	06/16/2009 14:44	0.0	0.0	0.0
446	06/16/2009 14:45	0.0	0.0	0.0
447	06/16/2009 14:46	0.0	0.0	0.0
448	06/16/2009 14:47	0.0	0.0	0.0
449	06/16/2009 14:48	0.0	0.0	0.0
450	06/16/2009 14:49	0.0	0.0	0.0
451	06/16/2009 14:50	0.0	0.0	0.0
452	06/16/2009 14:51	0.0	0.0	0.0
453	06/16/2009 14:52	0.0	0.0	0.0
454	06/16/2009 14:53	0.0	0.0	0.0
455	06/16/2009 14:54	0.0	0.0	0.0
456	06/16/2009 14:55	0.0	0.0	0.0
457	06/16/2009 14:56	0.0	0.0	0.0

458	06/16/2009 14:57	0.0	0.0	0.0
459	06/16/2009 14:58	0.0	0.0	0.0
460	06/16/2009 14:59	0.0	0.0	0.0
461	06/16/2009 15:00	0.0	0.0	0.0
462	06/16/2009 15:01	0.0	0.0	0.0
463	06/16/2009 15:02	0.0	0.0	0.0
464	06/16/2009 15:03	0.0	0.0	0.0
465	06/16/2009 15:04	0.0	0.0	0.0
466	06/16/2009 15:05	0.0	0.0	0.0
467	06/16/2009 15:06	0.0	0.0	0.0
468	06/16/2009 15:07	0.0	0.0	0.0
469	06/16/2009 15:08	0.0	0.0	0.0
470	06/16/2009 15:09	0.0	0.0	0.0
471	06/16/2009 15:10	0.0	0.0	0.0
472	06/16/2009 15:11	0.0	0.0	0.0
473	06/16/2009 15:12	0.0	0.0	0.0
474	06/16/2009 15:13	0.0	0.0	0.0
475	06/16/2009 15:14	0.0	0.0	0.0
476	06/16/2009 15:15	0.0	0.0	0.0
477	06/16/2009 15:16	0.0	0.0	0.0
478	06/16/2009 15:17	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 507 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/16/2009 06:51      0.0      0.0      0.0
2 06/16/2009 06:52      0.0      0.0      0.0
3 06/16/2009 06:53      0.0      0.0      0.0
4 06/16/2009 06:54      0.0      0.0      0.0
5 06/16/2009 06:55      0.0      0.0      0.0
6 06/16/2009 06:56      0.0      0.0      0.0
7 06/16/2009 06:57      0.0      0.0      0.0
8 06/16/2009 06:58      0.0      0.0      0.0
9 06/16/2009 06:59      0.0      0.0      0.0
10 06/16/2009 07:00      0.0      0.0      0.0
11 06/16/2009 07:01      0.0      0.0      0.0
12 06/16/2009 07:02      0.0      0.0      0.0
13 06/16/2009 07:03      0.0      0.0      0.0
14 06/16/2009 07:04      0.0      0.0      0.0
15 06/16/2009 07:05      0.0      0.0      0.0
16 06/16/2009 07:06      0.0      0.0      0.0
17 06/16/2009 07:07      0.0      0.0      0.0
18 06/16/2009 07:08      0.0      0.0      0.0
19 06/16/2009 07:09      0.0      0.0      0.0
20 06/16/2009 07:10      0.0      0.0      0.0
21 06/16/2009 07:11      0.0      0.0      0.0
22 06/16/2009 07:12      0.0      0.0      0.0
23 06/16/2009 07:13      0.0      0.0      0.0
24 06/16/2009 07:14      0.0      0.0      0.0
25 06/16/2009 07:15      0.0      0.0      0.0
26 06/16/2009 07:16      0.0      0.0      0.0
27 06/16/2009 07:17      0.0      0.0      0.0
28 06/16/2009 07:18      0.0      0.0      0.0
29 06/16/2009 07:19      0.0      0.0      0.0
30 06/16/2009 07:20      0.0      0.0      0.0
31 06/16/2009 07:21      0.0      0.0      0.0
32 06/16/2009 07:22      0.0      0.0      0.0
33 06/16/2009 07:23      0.0      0.0      0.0
34 06/16/2009 07:24      0.0      0.0      0.0
35 06/16/2009 07:25      0.0      0.0      0.0
36 06/16/2009 07:26      0.0      0.0      0.0
37 06/16/2009 07:27      0.0      0.0      0.0
38 06/16/2009 07:28      0.0      0.0      0.0
39 06/16/2009 07:29      0.0      0.0      0.0
40 06/16/2009 07:30      0.0      0.0      0.0
41 06/16/2009 07:31      0.0      0.0      0.0
```

42	06/16/2009 07:32	0.0	0.0	0.0
43	06/16/2009 07:33	0.0	0.0	0.0
44	06/16/2009 07:34	0.0	0.0	0.0
45	06/16/2009 07:35	0.0	0.0	0.0
46	06/16/2009 07:36	0.0	0.0	0.0
47	06/16/2009 07:37	0.0	0.0	0.0
48	06/16/2009 07:38	0.0	0.0	0.0
49	06/16/2009 07:39	0.0	0.0	0.0
50	06/16/2009 07:40	0.0	0.0	0.0
51	06/16/2009 07:41	0.0	0.0	0.0
52	06/16/2009 07:42	0.0	0.0	0.0
53	06/16/2009 07:43	0.0	0.0	0.0
54	06/16/2009 07:44	0.0	0.0	0.0
55	06/16/2009 07:45	0.0	0.0	0.0
56	06/16/2009 07:46	0.0	0.0	0.0
57	06/16/2009 07:47	0.0	0.0	0.0
58	06/16/2009 07:48	0.0	0.0	0.0
59	06/16/2009 07:49	0.0	0.0	0.0
60	06/16/2009 07:50	0.0	0.0	0.0
61	06/16/2009 07:51	0.0	0.0	0.0
62	06/16/2009 07:52	0.0	0.0	0.0
63	06/16/2009 07:53	0.0	0.0	0.1
64	06/16/2009 07:54	0.0	0.0	0.1
65	06/16/2009 07:55	0.0	0.0	0.0
66	06/16/2009 07:56	0.0	0.0	0.0
67	06/16/2009 07:57	0.0	0.0	0.0
68	06/16/2009 07:58	0.0	0.0	0.0
69	06/16/2009 07:59	0.0	0.0	0.0
70	06/16/2009 08:00	0.0	0.0	0.0
71	06/16/2009 08:01	0.0	0.0	0.0
72	06/16/2009 08:02	0.0	0.0	0.1
73	06/16/2009 08:03	0.0	0.0	0.0
74	06/16/2009 08:04	0.0	0.0	0.0
75	06/16/2009 08:05	0.0	0.0	0.0
76	06/16/2009 08:06	0.0	0.0	0.0
77	06/16/2009 08:07	0.0	0.0	0.0
78	06/16/2009 08:08	0.0	0.0	0.1
79	06/16/2009 08:09	0.0	0.0	0.1
80	06/16/2009 08:10	0.0	0.0	0.1
81	06/16/2009 08:11	0.0	0.0	0.1
82	06/16/2009 08:12	0.1	0.1	0.1
83	06/16/2009 08:13	0.0	0.0	0.1
84	06/16/2009 08:14	0.0	0.0	0.1
85	06/16/2009 08:15	0.0	0.0	0.1
86	06/16/2009 08:16	0.0	0.0	0.1
87	06/16/2009 08:17	0.0	0.0	0.1
88	06/16/2009 08:18	0.0	0.0	0.1
89	06/16/2009 08:19	0.1	0.1	0.1
90	06/16/2009 08:20	0.0	0.0	0.1
91	06/16/2009 08:21	0.0	0.0	0.1
92	06/16/2009 08:22	0.0	0.0	0.1
93	06/16/2009 08:23	0.0	0.0	0.1



94	06/16/2009 08:24	0.0	0.0	0.1
95	06/16/2009 08:25	0.1	0.1	0.1
96	06/16/2009 08:26	0.1	0.1	0.1
97	06/16/2009 08:27	0.1	0.1	0.1
98	06/16/2009 08:28	0.1	0.1	0.1
99	06/16/2009 08:29	0.1	0.1	0.1
100	06/16/2009 08:30	0.1	0.1	0.1
101	06/16/2009 08:31	0.1	0.1	0.1
102	06/16/2009 08:32	0.1	0.1	0.1
103	06/16/2009 08:33	0.0	0.0	0.1
104	06/16/2009 08:34	0.0	0.0	0.1
105	06/16/2009 08:35	0.1	0.1	0.1
106	06/16/2009 08:36	0.1	0.1	0.1
107	06/16/2009 08:37	0.1	0.1	0.1
108	06/16/2009 08:38	0.1	0.1	0.1
109	06/16/2009 08:39	0.1	0.1	0.1
110	06/16/2009 08:40	0.1	0.1	0.1
111	06/16/2009 08:41	0.1	0.1	0.1
112	06/16/2009 08:42	0.1	0.1	0.1
113	06/16/2009 08:43	0.1	0.1	0.1
114	06/16/2009 08:44	0.1	0.1	0.1
115	06/16/2009 08:45	0.1	0.1	0.1
116	06/16/2009 08:46	0.1	0.1	0.1
117	06/16/2009 08:47	0.1	0.1	0.1
118	06/16/2009 08:48	0.1	0.1	0.1
119	06/16/2009 08:49	0.1	0.1	0.1
120	06/16/2009 08:50	0.1	0.1	0.1
121	06/16/2009 08:51	0.1	0.1	0.1
122	06/16/2009 08:52	0.1	0.1	0.1
123	06/16/2009 08:53	0.1	0.1	0.1
124	06/16/2009 08:54	0.1	0.1	0.1
125	06/16/2009 08:55	0.1	0.1	0.1
126	06/16/2009 08:56	0.1	0.1	0.1
127	06/16/2009 08:57	0.1	0.1	0.1
128	06/16/2009 08:58	0.1	0.1	0.1
129	06/16/2009 08:59	0.1	0.1	0.1
130	06/16/2009 09:00	0.1	0.1	0.1
131	06/16/2009 09:01	0.1	0.1	0.1
132	06/16/2009 09:02	0.1	0.1	0.1
133	06/16/2009 09:03	0.1	0.1	0.1
134	06/16/2009 09:04	0.1	0.1	0.1
135	06/16/2009 09:05	0.1	0.1	0.1
136	06/16/2009 09:06	0.1	0.1	0.1
137	06/16/2009 09:07	0.1	0.1	0.1
138	06/16/2009 09:08	0.1	0.1	0.1
139	06/16/2009 09:09	0.1	0.1	0.1
140	06/16/2009 09:10	0.1	0.1	0.1
141	06/16/2009 09:11	0.1	0.1	0.1
142	06/16/2009 09:12	0.1	0.1	0.1
143	06/16/2009 09:13	0.1	0.1	0.1
144	06/16/2009 09:14	0.1	0.1	0.1
145	06/16/2009 09:15	0.1	0.1	0.1

146	06/16/2009 09:16	0.1	0.1	0.1
147	06/16/2009 09:17	0.1	0.1	0.1
148	06/16/2009 09:18	0.1	0.1	0.1
149	06/16/2009 09:19	0.1	0.1	0.1
150	06/16/2009 09:20	0.1	0.1	0.1
151	06/16/2009 09:21	0.1	0.1	0.1
152	06/16/2009 09:22	0.1	0.1	0.1
153	06/16/2009 09:23	0.1	0.1	0.1
154	06/16/2009 09:24	0.1	0.1	0.1
155	06/16/2009 09:25	0.1	0.1	0.1
156	06/16/2009 09:26	0.1	0.1	0.1
157	06/16/2009 09:27	0.1	0.1	0.1
158	06/16/2009 09:28	0.1	0.1	0.1
159	06/16/2009 09:29	0.1	0.1	0.1
160	06/16/2009 09:30	0.1	0.1	0.1
161	06/16/2009 09:31	0.1	0.1	0.1
162	06/16/2009 09:32	0.1	0.1	0.1
163	06/16/2009 09:33	0.1	0.1	0.1
164	06/16/2009 09:34	0.1	0.1	0.1
165	06/16/2009 09:35	0.1	0.1	0.1
166	06/16/2009 09:36	0.1	0.1	0.1
167	06/16/2009 09:37	0.1	0.1	0.1
168	06/16/2009 09:38	0.1	0.1	0.1
169	06/16/2009 09:39	0.1	0.1	0.1
170	06/16/2009 09:40	0.1	0.1	0.1
171	06/16/2009 09:41	0.1	0.1	0.1
172	06/16/2009 09:42	0.1	0.1	0.2
173	06/16/2009 09:43	0.1	0.1	0.1
174	06/16/2009 09:44	0.1	0.1	0.1
175	06/16/2009 09:45	0.1	0.1	0.2
176	06/16/2009 09:46	0.1	0.1	0.2
177	06/16/2009 09:47	0.1	0.1	0.1
178	06/16/2009 09:48	0.1	0.1	0.2
179	06/16/2009 09:49	0.1	0.1	0.2
180	06/16/2009 09:50	0.1	0.1	0.2
181	06/16/2009 09:51	0.1	0.1	0.2
182	06/16/2009 09:52	0.1	0.1	0.2
183	06/16/2009 09:53	0.1	0.1	0.2
184	06/16/2009 09:54	0.1	0.1	0.2
185	06/16/2009 09:55	0.1	0.1	0.2
186	06/16/2009 09:56	0.1	0.1	0.2
187	06/16/2009 09:57	0.1	0.1	0.2
188	06/16/2009 09:58	0.2	0.2	0.2
189	06/16/2009 09:59	0.2	0.2	0.2
190	06/16/2009 10:00	0.1	0.1	0.2
191	06/16/2009 10:01	0.1	0.1	0.2
192	06/16/2009 10:02	0.1	0.1	0.2
193	06/16/2009 10:03	0.2	0.2	0.2
194	06/16/2009 10:04	0.1	0.1	0.2
195	06/16/2009 10:05	0.2	0.2	0.2
196	06/16/2009 10:06	0.1	0.1	0.2
197	06/16/2009 10:07	0.1	0.1	0.2

198	06/16/2009 10:08	0.2	0.2	0.2
199	06/16/2009 10:09	0.2	0.2	0.2
200	06/16/2009 10:10	0.1	0.1	0.2
201	06/16/2009 10:11	0.1	0.1	0.2
202	06/16/2009 10:12	0.2	0.2	0.2
203	06/16/2009 10:13	0.1	0.1	0.2
204	06/16/2009 10:14	0.1	0.1	0.2
205	06/16/2009 10:15	0.1	0.1	0.2
206	06/16/2009 10:16	0.1	0.1	0.2
207	06/16/2009 10:17	0.1	0.1	0.2
208	06/16/2009 10:18	0.1	0.1	0.2
209	06/16/2009 10:19	0.1	0.1	0.2
210	06/16/2009 10:20	0.1	0.1	0.2
211	06/16/2009 10:21	0.1	0.1	0.2
212	06/16/2009 10:22	0.1	0.1	0.2
213	06/16/2009 10:23	0.1	0.1	0.2
214	06/16/2009 10:24	0.1	0.1	0.2
215	06/16/2009 10:25	0.1	0.1	0.2
216	06/16/2009 10:26	0.1	0.1	0.2
217	06/16/2009 10:27	0.1	0.1	0.2
218	06/16/2009 10:28	0.1	0.1	0.2
219	06/16/2009 10:29	0.1	0.1	0.2
220	06/16/2009 10:30	0.1	0.1	0.2
221	06/16/2009 10:31	0.1	0.1	0.2
222	06/16/2009 10:32	0.1	0.1	0.2
223	06/16/2009 10:33	0.1	0.1	0.2
224	06/16/2009 10:34	0.1	0.1	0.2
225	06/16/2009 10:35	0.1	0.1	0.1
226	06/16/2009 10:36	0.1	0.1	0.2
227	06/16/2009 10:37	0.1	0.1	0.2
228	06/16/2009 10:38	0.2	0.2	0.2
229	06/16/2009 10:39	0.2	0.2	0.2
230	06/16/2009 10:40	0.2	0.2	0.2
231	06/16/2009 10:41	0.1	0.1	0.2
232	06/16/2009 10:42	0.2	0.2	0.2
233	06/16/2009 10:43	0.2	0.2	0.2
234	06/16/2009 10:44	0.2	0.2	0.2
235	06/16/2009 10:45	0.2	0.2	0.2
236	06/16/2009 10:46	0.2	0.2	0.2
237	06/16/2009 10:47	0.2	0.2	0.2
238	06/16/2009 10:48	0.2	0.2	0.2
239	06/16/2009 10:49	0.2	0.2	0.2
240	06/16/2009 10:50	0.2	0.2	0.2
241	06/16/2009 10:51	0.2	0.2	0.2
242	06/16/2009 10:52	0.2	0.2	0.2
243	06/16/2009 10:53	0.1	0.1	0.2
244	06/16/2009 10:54	0.1	0.1	0.2
245	06/16/2009 10:55	0.1	0.1	0.2
246	06/16/2009 10:56	0.1	0.1	0.2
247	06/16/2009 10:57	0.1	0.1	0.2
248	06/16/2009 10:58	0.1	0.1	0.2
249	06/16/2009 10:59	0.2	0.2	0.2

250	06/16/2009 11:00	0.1	0.1	0.2
251	06/16/2009 11:01	0.2	0.2	0.2
252	06/16/2009 11:02	0.2	0.2	0.2
253	06/16/2009 11:03	0.2	0.2	0.2
254	06/16/2009 11:04	0.2	0.2	0.2
255	06/16/2009 11:05	0.2	0.2	0.2
256	06/16/2009 11:06	0.2	0.2	0.2
257	06/16/2009 11:07	0.2	0.2	0.2
258	06/16/2009 11:08	0.2	0.2	0.2
259	06/16/2009 11:09	0.2	0.2	0.2
260	06/16/2009 11:10	0.2	0.2	0.2
261	06/16/2009 11:11	0.1	0.1	0.2
262	06/16/2009 11:12	0.1	0.1	0.2
263	06/16/2009 11:13	0.1	0.1	0.2
264	06/16/2009 11:14	0.2	0.2	0.2
265	06/16/2009 11:15	0.1	0.1	0.2
266	06/16/2009 11:16	0.1	0.1	0.2
267	06/16/2009 11:17	0.1	0.1	0.2
268	06/16/2009 11:18	0.2	0.2	0.2
269	06/16/2009 11:19	0.1	0.1	0.2
270	06/16/2009 11:20	0.1	0.1	0.2
271	06/16/2009 11:21	0.1	0.1	0.2
272	06/16/2009 11:22	0.1	0.1	0.2
273	06/16/2009 11:23	0.1	0.1	0.2
274	06/16/2009 11:24	0.1	0.1	0.2
275	06/16/2009 11:25	0.1	0.1	0.2
276	06/16/2009 11:26	0.2	0.2	0.2
277	06/16/2009 11:27	0.2	0.2	0.2
278	06/16/2009 11:28	0.2	0.2	0.2
279	06/16/2009 11:29	0.1	0.1	0.2
280	06/16/2009 11:30	0.1	0.1	0.2
281	06/16/2009 11:31	0.2	0.2	0.2
282	06/16/2009 11:32	0.2	0.2	0.2
283	06/16/2009 11:33	0.1	0.1	0.2
284	06/16/2009 11:34	0.1	0.1	0.2
285	06/16/2009 11:35	0.2	0.2	0.2
286	06/16/2009 11:36	0.2	0.2	0.2
287	06/16/2009 11:37	0.2	0.2	0.2
288	06/16/2009 11:38	0.1	0.1	0.2
289	06/16/2009 11:39	0.2	0.2	0.2
290	06/16/2009 11:40	0.2	0.2	0.2
291	06/16/2009 11:41	0.1	0.1	0.2
292	06/16/2009 11:42	0.2	0.2	0.2
293	06/16/2009 11:43	0.2	0.2	0.2
294	06/16/2009 11:44	0.2	0.2	0.2
295	06/16/2009 11:45	0.2	0.2	0.2
296	06/16/2009 11:46	0.2	0.2	0.2
297	06/16/2009 11:47	0.2	0.2	0.2
298	06/16/2009 11:48	0.2	0.2	0.2
299	06/16/2009 11:49	0.2	0.2	0.2
300	06/16/2009 11:50	0.2	0.2	0.2
301	06/16/2009 11:51	0.2	0.2	0.2

302	06/16/2009 11:52	0.2	0.2	0.2
303	06/16/2009 11:53	0.2	0.2	0.2
304	06/16/2009 11:54	0.2	0.2	0.2
305	06/16/2009 11:55	0.2	0.2	0.2
306	06/16/2009 11:56	0.2	0.2	0.2
307	06/16/2009 11:57	0.2	0.2	0.2
308	06/16/2009 11:58	0.2	0.2	0.2
309	06/16/2009 11:59	0.2	0.2	0.2
310	06/16/2009 12:00	0.2	0.2	0.2
311	06/16/2009 12:01	0.2	0.2	0.2
312	06/16/2009 12:02	0.2	0.2	0.2
313	06/16/2009 12:03	0.2	0.2	0.2
314	06/16/2009 12:04	0.2	0.2	0.2
315	06/16/2009 12:05	0.2	0.2	0.2
316	06/16/2009 12:06	0.2	0.2	0.2
317	06/16/2009 12:07	0.2	0.2	0.2
318	06/16/2009 12:08	0.2	0.2	0.2
319	06/16/2009 12:09	0.2	0.2	0.2
320	06/16/2009 12:10	0.2	0.2	0.2
321	06/16/2009 12:11	0.2	0.2	0.2
322	06/16/2009 12:12	0.2	0.2	0.2
323	06/16/2009 12:13	0.2	0.2	0.2
324	06/16/2009 12:14	0.2	0.2	0.2
325	06/16/2009 12:15	0.2	0.2	0.2
326	06/16/2009 12:16	0.2	0.2	0.2
327	06/16/2009 12:17	0.2	0.2	0.2
328	06/16/2009 12:18	0.2	0.2	0.2
329	06/16/2009 12:19	0.2	0.2	0.2
330	06/16/2009 12:20	0.2	0.2	0.2
331	06/16/2009 12:21	0.2	0.2	0.2
332	06/16/2009 12:22	0.2	0.2	0.2
333	06/16/2009 12:23	0.2	0.2	0.2
334	06/16/2009 12:24	0.2	0.2	0.2
335	06/16/2009 12:25	0.2	0.2	0.2
336	06/16/2009 12:26	0.2	0.2	0.2
337	06/16/2009 12:27	0.2	0.2	0.2
338	06/16/2009 12:28	0.2	0.2	0.2
339	06/16/2009 12:29	0.2	0.2	0.2
340	06/16/2009 12:30	0.2	0.2	0.2
341	06/16/2009 12:31	0.2	0.2	0.2
342	06/16/2009 12:32	0.2	0.2	0.2
343	06/16/2009 12:33	0.2	0.2	0.2
344	06/16/2009 12:34	0.2	0.2	0.2
345	06/16/2009 12:35	0.2	0.2	0.2
346	06/16/2009 12:36	0.2	0.2	0.2
347	06/16/2009 12:37	0.2	0.2	0.2
348	06/16/2009 12:38	0.2	0.2	0.2
349	06/16/2009 12:39	0.2	0.2	0.2
350	06/16/2009 12:40	0.2	0.2	0.2
351	06/16/2009 12:41	0.2	0.2	0.2
352	06/16/2009 12:42	0.2	0.2	0.2
353	06/16/2009 12:43	0.2	0.2	0.2

354	06/16/2009 12:44	0.2	0.2	0.2
355	06/16/2009 12:45	0.2	0.2	0.2
356	06/16/2009 12:46	0.2	0.2	0.2
357	06/16/2009 12:47	0.2	0.2	0.2
358	06/16/2009 12:48	0.2	0.2	0.2
359	06/16/2009 12:49	0.2	0.2	0.2
360	06/16/2009 12:50	0.2	0.2	0.2
361	06/16/2009 12:51	0.2	0.2	0.2
362	06/16/2009 12:52	0.2	0.2	0.2
363	06/16/2009 12:53	0.2	0.2	0.2
364	06/16/2009 12:54	0.2	0.2	0.2
365	06/16/2009 12:55	0.2	0.2	0.2
366	06/16/2009 12:56	0.2	0.2	0.2
367	06/16/2009 12:57	0.2	0.2	0.2
368	06/16/2009 12:58	0.2	0.2	0.2
369	06/16/2009 12:59	0.2	0.2	0.2
370	06/16/2009 13:00	0.2	0.2	0.2
371	06/16/2009 13:01	0.2	0.2	0.2
372	06/16/2009 13:02	0.2	0.2	0.2
373	06/16/2009 13:03	0.2	0.2	0.2
374	06/16/2009 13:04	0.2	0.2	0.2
375	06/16/2009 13:05	0.2	0.2	0.2
376	06/16/2009 13:06	0.2	0.2	0.2
377	06/16/2009 13:07	0.2	0.2	0.2
378	06/16/2009 13:08	0.2	0.2	0.2
379	06/16/2009 13:09	0.2	0.2	0.2
380	06/16/2009 13:10	0.2	0.2	0.2
381	06/16/2009 13:11	0.2	0.2	0.2
382	06/16/2009 13:12	0.2	0.2	0.2
383	06/16/2009 13:13	0.2	0.2	0.2
384	06/16/2009 13:14	0.2	0.2	0.2
385	06/16/2009 13:15	0.2	0.2	0.2
386	06/16/2009 13:16	0.2	0.2	0.2
387	06/16/2009 13:17	0.2	0.2	0.2
388	06/16/2009 13:18	0.2	0.2	0.2
389	06/16/2009 13:19	0.2	0.2	0.2
390	06/16/2009 13:20	0.2	0.2	0.2
391	06/16/2009 13:21	0.2	0.2	0.2
392	06/16/2009 13:22	0.2	0.2	0.2
393	06/16/2009 13:23	0.2	0.2	0.2
394	06/16/2009 13:24	0.2	0.2	0.2
395	06/16/2009 13:25	0.2	0.2	0.2
396	06/16/2009 13:26	0.2	0.2	0.2
397	06/16/2009 13:27	0.2	0.2	0.2
398	06/16/2009 13:28	0.2	0.2	0.2
399	06/16/2009 13:29	0.2	0.2	0.2
400	06/16/2009 13:30	0.2	0.2	0.2
401	06/16/2009 13:31	0.2	0.2	0.2
402	06/16/2009 13:32	0.2	0.2	0.2
403	06/16/2009 13:33	0.2	0.2	0.2
404	06/16/2009 13:34	0.2	0.2	0.2
405	06/16/2009 13:35	0.2	0.2	0.2

406	06/16/2009 13:36	0.2	0.2	0.2
407	06/16/2009 13:37	0.2	0.2	0.2
408	06/16/2009 13:38	0.2	0.2	0.2
409	06/16/2009 13:39	0.2	0.2	0.2
410	06/16/2009 13:40	0.2	0.2	0.2
411	06/16/2009 13:41	0.2	0.2	0.2
412	06/16/2009 13:42	0.2	0.2	0.3
413	06/16/2009 13:43	0.2	0.2	0.3
414	06/16/2009 13:44	0.2	0.2	0.2
415	06/16/2009 13:45	0.2	0.2	0.2
416	06/16/2009 13:46	0.2	0.2	0.2
417	06/16/2009 13:47	0.2	0.2	0.2
418	06/16/2009 13:48	0.2	0.2	0.2
419	06/16/2009 13:49	0.2	0.2	0.2
420	06/16/2009 13:50	0.2	0.2	0.2
421	06/16/2009 13:51	0.2	0.2	0.2
422	06/16/2009 13:52	0.2	0.2	0.2
423	06/16/2009 13:53	0.2	0.2	0.2
424	06/16/2009 13:54	0.2	0.2	0.2
425	06/16/2009 13:55	0.2	0.2	0.2
426	06/16/2009 13:56	0.2	0.2	0.2
427	06/16/2009 13:57	0.2	0.2	0.2
428	06/16/2009 13:58	0.2	0.2	0.2
429	06/16/2009 13:59	0.2	0.2	0.2
430	06/16/2009 14:00	0.2	0.2	0.2
431	06/16/2009 14:01	0.2	0.2	0.2
432	06/16/2009 14:02	0.2	0.2	0.2
433	06/16/2009 14:03	0.2	0.2	0.2
434	06/16/2009 14:04	0.2	0.2	0.2
435	06/16/2009 14:05	0.2	0.2	0.2
436	06/16/2009 14:06	0.2	0.2	0.2
437	06/16/2009 14:07	0.2	0.2	0.2
438	06/16/2009 14:08	0.2	0.2	0.2
439	06/16/2009 14:09	0.2	0.2	0.2
440	06/16/2009 14:10	0.2	0.2	0.3
441	06/16/2009 14:11	0.2	0.2	0.2
442	06/16/2009 14:12	0.2	0.2	0.2
443	06/16/2009 14:13	0.2	0.2	0.2
444	06/16/2009 14:14	0.2	0.2	0.2
445	06/16/2009 14:15	0.2	0.2	0.2
446	06/16/2009 14:16	0.2	0.2	0.2
447	06/16/2009 14:17	0.2	0.2	0.2
448	06/16/2009 14:18	0.2	0.2	0.2
449	06/16/2009 14:19	0.2	0.2	0.2
450	06/16/2009 14:20	0.2	0.2	0.2
451	06/16/2009 14:21	0.2	0.2	0.2
452	06/16/2009 14:22	0.2	0.2	0.2
453	06/16/2009 14:23	0.2	0.2	0.2
454	06/16/2009 14:24	0.2	0.2	0.3
455	06/16/2009 14:25	0.2	0.2	0.3
456	06/16/2009 14:26	0.2	0.2	0.3
457	06/16/2009 14:27	0.2	0.2	0.2

458	06/16/2009 14:28	0.2	0.2	0.2
459	06/16/2009 14:29	0.2	0.2	0.3
460	06/16/2009 14:30	0.2	0.2	0.2
461	06/16/2009 14:31	0.2	0.2	0.2
462	06/16/2009 14:32	0.2	0.2	0.2
463	06/16/2009 14:33	0.2	0.2	0.3
464	06/16/2009 14:34	0.2	0.2	0.2
465	06/16/2009 14:35	0.2	0.2	0.2
466	06/16/2009 14:36	0.2	0.2	0.3
467	06/16/2009 14:37	0.2	0.2	0.3
468	06/16/2009 14:38	0.2	0.2	0.3
469	06/16/2009 14:39	0.2	0.2	0.3
470	06/16/2009 14:40	0.2	0.2	0.3
471	06/16/2009 14:41	0.2	0.2	0.3
472	06/16/2009 14:42	0.2	0.2	0.3
473	06/16/2009 14:43	0.2	0.2	0.5
474	06/16/2009 14:44	0.2	0.2	0.4
475	06/16/2009 14:45	0.2	0.3	0.5
476	06/16/2009 14:46	0.2	0.2	0.3
477	06/16/2009 14:47	0.2	0.2	0.2
478	06/16/2009 14:48	0.2	0.2	0.2
479	06/16/2009 14:49	0.2	0.2	0.3
480	06/16/2009 14:50	0.2	0.2	0.3
481	06/16/2009 14:51	0.2	0.2	0.3
482	06/16/2009 14:52	0.2	0.2	0.2
483	06/16/2009 14:53	0.2	0.2	0.3
484	06/16/2009 14:54	0.2	0.2	0.3
485	06/16/2009 14:55	0.2	0.2	0.3
486	06/16/2009 14:56	0.2	0.2	0.3
487	06/16/2009 14:57	0.2	0.2	0.2
488	06/16/2009 14:58	0.2	0.2	0.3
489	06/16/2009 14:59	0.2	0.2	0.3
490	06/16/2009 15:00	0.2	0.2	0.3
491	06/16/2009 15:01	0.2	0.2	0.2
492	06/16/2009 15:02	0.2	0.2	0.2
493	06/16/2009 15:03	0.2	0.2	0.4
494	06/16/2009 15:04	0.2	0.2	0.2
495	06/16/2009 15:05	0.2	0.2	0.2
496	06/16/2009 15:06	0.2	0.2	0.3
497	06/16/2009 15:07	0.2	0.2	0.3
498	06/16/2009 15:08	0.2	0.2	0.3
499	06/16/2009 15:09	0.2	0.2	0.2
500	06/16/2009 15:10	0.2	0.2	0.2
501	06/16/2009 15:11	0.2	0.2	0.2
502	06/16/2009 15:12	0.2	0.2	0.2
503	06/16/2009 15:13	0.2	0.2	0.2
504	06/16/2009 15:14	0.2	0.2	0.3
505	06/16/2009 15:15	0.2	0.2	0.2
506	06/16/2009 15:16	0.2	0.2	0.5
507	06/16/2009 15:17	0.2	0.2	0.5



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 505 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/16/2009 06:47      0.0      0.0      0.0
2 06/16/2009 06:48      0.0      0.0      0.0
3 06/16/2009 06:49      0.0      0.0      0.0
4 06/16/2009 06:50      0.0      0.0      0.0
5 06/16/2009 06:51      0.0      0.0      0.0
6 06/16/2009 06:52      0.0      0.0      0.0
7 06/16/2009 06:53      0.0      0.0      0.0
8 06/16/2009 06:54      0.0      0.0      0.0
9 06/16/2009 06:55      0.0      0.0      0.0
10 06/16/2009 06:56      0.0      0.0      0.0
11 06/16/2009 06:57      0.0      0.0      0.0
12 06/16/2009 06:58      0.0      0.0      0.0
13 06/16/2009 06:59      0.0      0.0      0.0
14 06/16/2009 07:00      0.0      0.0      0.0
15 06/16/2009 07:01      0.0      0.0      0.0
16 06/16/2009 07:02      0.0      0.0      0.0
17 06/16/2009 07:03      0.0      0.0      0.0
18 06/16/2009 07:04      0.0      0.0      0.0
19 06/16/2009 07:05      0.0      0.0      0.0
20 06/16/2009 07:06      0.0      0.0      0.0
21 06/16/2009 07:07      0.0      0.0      0.0
22 06/16/2009 07:08      0.0      0.0      0.0
23 06/16/2009 07:09      0.0      0.0      0.0
24 06/16/2009 07:10      0.0      0.0      0.0
25 06/16/2009 07:11      0.0      0.0      0.0
26 06/16/2009 07:12      0.0      0.0      0.0
27 06/16/2009 07:13      0.0      0.0      0.0
28 06/16/2009 07:14      0.0      0.0      0.0
29 06/16/2009 07:15      0.0      0.0      0.0
30 06/16/2009 07:16      0.0      0.0      0.0
31 06/16/2009 07:17      0.0      0.0      0.0
32 06/16/2009 07:18      0.0      0.0      0.0
33 06/16/2009 07:19      0.0      0.0      0.0
34 06/16/2009 07:20      0.0      0.0      0.0
35 06/16/2009 07:21      0.0      0.0      0.0
36 06/16/2009 07:22      0.0      0.0      0.0
37 06/16/2009 07:23      0.0      0.0      0.0
38 06/16/2009 07:24      0.0      0.0      0.0
39 06/16/2009 07:25      0.0      0.0      0.0
40 06/16/2009 07:26      0.0      0.0      0.0
41 06/16/2009 07:27      0.0      0.0      0.0
```

42	06/16/2009 07:28	0.0	0.0	0.0
43	06/16/2009 07:29	0.0	0.0	0.0
44	06/16/2009 07:30	0.0	0.0	0.0
45	06/16/2009 07:31	0.0	0.0	0.0
46	06/16/2009 07:32	0.0	0.0	0.0
47	06/16/2009 07:33	0.0	0.0	0.0
48	06/16/2009 07:34	0.0	0.0	0.0
49	06/16/2009 07:35	0.0	0.0	0.0
50	06/16/2009 07:36	0.0	0.0	0.0
51	06/16/2009 07:37	0.0	0.0	0.0
52	06/16/2009 07:38	0.0	0.0	0.0
53	06/16/2009 07:39	0.0	0.0	0.0
54	06/16/2009 07:40	0.0	0.0	0.0
55	06/16/2009 07:41	0.0	0.0	0.0
56	06/16/2009 07:42	0.0	0.0	0.0
57	06/16/2009 07:43	0.0	0.0	0.0
58	06/16/2009 07:44	0.0	0.0	0.1
59	06/16/2009 07:45	0.0	0.0	0.1
60	06/16/2009 07:46	0.0	0.0	0.1
61	06/16/2009 07:47	0.0	0.0	0.1
62	06/16/2009 07:48	0.0	0.0	0.1
63	06/16/2009 07:49	0.0	0.0	0.1
64	06/16/2009 07:50	0.0	0.0	0.1
65	06/16/2009 07:51	0.0	0.0	0.1
66	06/16/2009 07:52	0.0	0.0	0.1
67	06/16/2009 07:53	0.0	0.0	0.1
68	06/16/2009 07:54	0.0	0.0	0.1
69	06/16/2009 07:55	0.0	0.0	0.1
70	06/16/2009 07:56	0.0	0.0	0.1
71	06/16/2009 07:57	0.0	0.0	0.1
72	06/16/2009 07:58	0.0	0.0	0.1
73	06/16/2009 07:59	0.0	0.0	0.1
74	06/16/2009 08:00	0.0	0.0	0.1
75	06/16/2009 08:01	0.0	0.0	0.1
76	06/16/2009 08:02	0.0	0.0	0.1
77	06/16/2009 08:03	0.0	0.0	0.2
78	06/16/2009 08:04	0.1	0.1	0.2
79	06/16/2009 08:05	0.1	0.1	0.2
80	06/16/2009 08:06	0.0	0.1	0.2
81	06/16/2009 08:07	0.1	0.3	0.8
82	06/16/2009 08:08	0.1	0.1	0.3
83	06/16/2009 08:09	0.1	0.1	0.2
84	06/16/2009 08:10	0.1	0.1	0.2
85	06/16/2009 08:11	0.1	0.1	0.2
86	06/16/2009 08:12	0.1	0.1	0.2
87	06/16/2009 08:13	0.1	0.1	0.3
88	06/16/2009 08:14	0.1	0.1	0.3
89	06/16/2009 08:15	0.1	0.1	0.2
90	06/16/2009 08:16	0.1	0.1	0.2
91	06/16/2009 08:17	0.1	0.1	0.2
92	06/16/2009 08:18	0.1	0.1	0.2
93	06/16/2009 08:19	0.1	0.1	0.2

94	06/16/2009 08:20	0.1	0.1	0.2
95	06/16/2009 08:21	0.1	0.1	0.2
96	06/16/2009 08:22	0.1	0.1	0.2
97	06/16/2009 08:23	0.1	0.1	0.2
98	06/16/2009 08:24	0.1	0.1	0.2
99	06/16/2009 08:25	0.1	0.1	0.2
100	06/16/2009 08:26	0.1	0.1	0.2
101	06/16/2009 08:27	0.1	0.1	0.2
102	06/16/2009 08:28	0.1	0.1	0.2
103	06/16/2009 08:29	0.1	0.1	0.2
104	06/16/2009 08:30	0.1	0.1	0.2
105	06/16/2009 08:31	0.1	0.1	0.2
106	06/16/2009 08:32	0.1	0.1	0.3
107	06/16/2009 08:33	0.2	0.2	0.4
108	06/16/2009 08:34	0.1	0.2	0.3
109	06/16/2009 08:35	0.2	0.3	0.6
110	06/16/2009 08:36	0.2	0.2	0.2
111	06/16/2009 08:37	0.1	0.1	0.2
112	06/16/2009 08:38	0.1	0.1	0.2
113	06/16/2009 08:39	0.2	0.2	0.3
114	06/16/2009 08:40	0.1	0.1	0.2
115	06/16/2009 08:41	0.1	0.1	0.2
116	06/16/2009 08:42	0.1	0.1	0.2
117	06/16/2009 08:43	0.1	0.1	0.2
118	06/16/2009 08:44	0.2	0.2	0.2
119	06/16/2009 08:45	0.2	0.2	0.2
120	06/16/2009 08:46	0.2	0.2	0.2
121	06/16/2009 08:47	0.2	0.2	0.2
122	06/16/2009 08:48	0.2	0.2	0.2
123	06/16/2009 08:49	0.2	0.2	0.2
124	06/16/2009 08:50	0.2	0.2	0.3
125	06/16/2009 08:51	0.2	0.2	0.3
126	06/16/2009 08:52	0.2	0.2	0.3
127	06/16/2009 08:53	0.2	0.2	0.3
128	06/16/2009 08:54	0.2	0.2	0.2
129	06/16/2009 08:55	0.2	0.2	0.2
130	06/16/2009 08:56	0.2	0.2	0.2
131	06/16/2009 08:57	0.2	0.2	0.3
132	06/16/2009 08:58	0.2	0.2	0.3
133	06/16/2009 08:59	0.2	0.2	0.2
134	06/16/2009 09:00	0.2	0.2	0.4
135	06/16/2009 09:01	0.2	0.2	0.2
136	06/16/2009 09:02	0.2	0.2	0.2
137	06/16/2009 09:03	0.2	0.2	0.3
138	06/16/2009 09:04	0.1	0.2	0.3
139	06/16/2009 09:05	0.1	0.1	0.2
140	06/16/2009 09:06	0.1	0.2	0.3
141	06/16/2009 09:07	0.1	0.2	0.3
142	06/16/2009 09:08	0.2	0.2	0.3
143	06/16/2009 09:09	0.2	0.2	0.3
144	06/16/2009 09:10	0.1	0.2	0.3
145	06/16/2009 09:11	0.2	0.2	0.4

146	06/16/2009 09:12	0.2	0.2	0.5
147	06/16/2009 09:13	0.1	0.2	0.3
148	06/16/2009 09:14	0.1	0.2	0.3
149	06/16/2009 09:15	0.1	0.2	0.3
150	06/16/2009 09:16	0.2	0.2	0.5
151	06/16/2009 09:17	0.1	0.2	0.3
152	06/16/2009 09:18	0.2	0.3	0.5
153	06/16/2009 09:19	0.2	0.2	0.7
154	06/16/2009 09:20	0.2	0.2	0.4
155	06/16/2009 09:21	0.2	0.2	0.4
156	06/16/2009 09:22	0.2	0.2	0.3
157	06/16/2009 09:23	0.2	0.2	0.3
158	06/16/2009 09:24	0.2	0.2	0.3
159	06/16/2009 09:25	0.1	0.2	0.3
160	06/16/2009 09:26	0.2	0.2	0.3
161	06/16/2009 09:27	0.2	0.3	0.9
162	06/16/2009 09:28	0.2	0.2	0.4
163	06/16/2009 09:29	0.2	0.3	0.5
164	06/16/2009 09:30	0.1	0.2	0.3
165	06/16/2009 09:31	0.1	0.2	0.3
166	06/16/2009 09:32	0.1	0.2	0.3
167	06/16/2009 09:33	0.1	0.1	0.3
168	06/16/2009 09:34	0.1	0.2	0.3
169	06/16/2009 09:35	0.1	0.2	0.3
170	06/16/2009 09:36	0.1	0.2	0.3
171	06/16/2009 09:37	0.2	0.2	0.4
172	06/16/2009 09:38	0.2	0.2	0.3
173	06/16/2009 09:39	0.1	0.1	0.3
174	06/16/2009 09:40	0.1	0.1	0.3
175	06/16/2009 09:41	0.1	0.1	0.3
176	06/16/2009 09:42	0.1	0.2	0.3
177	06/16/2009 09:43	0.1	0.2	0.4
178	06/16/2009 09:44	0.1	0.2	0.4
179	06/16/2009 09:45	0.2	0.2	0.5
180	06/16/2009 09:46	0.2	0.2	0.5
181	06/16/2009 09:47	0.2	0.4	1.1
182	06/16/2009 09:48	0.2	0.3	0.8
183	06/16/2009 09:49	0.2	0.2	0.4
184	06/16/2009 09:50	0.2	0.2	0.4
185	06/16/2009 09:51	0.2	0.3	0.4
186	06/16/2009 09:52	0.2	0.3	0.4
187	06/16/2009 09:53	0.2	0.2	0.4
188	06/16/2009 09:54	0.2	0.3	0.4
189	06/16/2009 09:55	0.2	0.2	0.3
190	06/16/2009 09:56	0.2	0.3	0.5
191	06/16/2009 09:57	0.3	0.3	0.5
192	06/16/2009 09:58	0.4	0.5	0.7
193	06/16/2009 09:59	0.4	0.6	0.8
194	06/16/2009 10:00	0.6	0.6	0.8
195	06/16/2009 10:01	0.4	0.6	0.8
196	06/16/2009 10:02	0.4	0.5	0.7
197	06/16/2009 10:03	0.2	0.3	0.6

198	06/16/2009 10:04	0.2	0.2	0.3
199	06/16/2009 10:05	0.2	0.2	0.3
200	06/16/2009 10:06	0.2	0.2	0.4
201	06/16/2009 10:07	0.1	0.1	0.3
202	06/16/2009 10:08	0.2	0.2	0.3
203	06/16/2009 10:09	0.1	0.2	0.3
204	06/16/2009 10:10	0.1	0.1	0.3
205	06/16/2009 10:11	0.1	0.2	0.3
206	06/16/2009 10:12	0.1	0.1	0.3
207	06/16/2009 10:13	0.1	0.1	0.3
208	06/16/2009 10:14	0.1	0.1	0.3
209	06/16/2009 10:15	0.1	0.2	0.3
210	06/16/2009 10:16	0.1	0.1	0.2
211	06/16/2009 10:17	0.1	0.1	0.3
212	06/16/2009 10:18	0.1	0.1	0.3
213	06/16/2009 10:19	0.1	0.1	0.3
214	06/16/2009 10:20	0.1	0.2	0.3
215	06/16/2009 10:21	0.1	0.2	0.3
216	06/16/2009 10:22	0.1	0.2	0.3
217	06/16/2009 10:23	0.1	0.1	0.3
218	06/16/2009 10:24	0.1	0.2	0.4
219	06/16/2009 10:25	0.1	0.2	0.3
220	06/16/2009 10:26	0.1	0.2	0.4
221	06/16/2009 10:27	0.2	0.3	0.5
222	06/16/2009 10:28	0.1	0.2	0.3
223	06/16/2009 10:29	0.1	0.1	0.2
224	06/16/2009 10:30	0.2	0.2	0.3
225	06/16/2009 10:31	0.1	0.2	0.3
226	06/16/2009 10:32	0.1	0.3	0.6
227	06/16/2009 10:33	0.2	0.2	0.4
228	06/16/2009 10:34	0.1	0.2	0.3
229	06/16/2009 10:35	0.2	0.2	0.3
230	06/16/2009 10:36	0.2	0.2	0.3
231	06/16/2009 10:37	0.2	0.2	0.4
232	06/16/2009 10:38	0.2	0.2	0.4
233	06/16/2009 10:39	0.2	0.2	0.4
234	06/16/2009 10:40	0.2	0.3	0.4
235	06/16/2009 10:41	0.2	0.3	0.9
236	06/16/2009 10:42	0.2	0.3	0.5
237	06/16/2009 10:43	0.2	0.3	0.5
238	06/16/2009 10:44	0.2	0.2	0.6
239	06/16/2009 10:45	0.2	0.3	0.5
240	06/16/2009 10:46	0.2	0.3	0.5
241	06/16/2009 10:47	0.2	0.2	0.3
242	06/16/2009 10:48	0.1	0.2	0.3
243	06/16/2009 10:49	0.2	0.2	0.3
244	06/16/2009 10:50	0.2	0.2	0.3
245	06/16/2009 10:51	0.1	0.2	0.3
246	06/16/2009 10:52	0.1	0.2	0.3
247	06/16/2009 10:53	0.2	0.2	0.5
248	06/16/2009 10:54	0.2	0.2	0.5
249	06/16/2009 10:55	0.1	0.1	0.2

250	06/16/2009 10:56	0.1	0.1	0.3
251	06/16/2009 10:57	0.1	0.1	0.3
252	06/16/2009 10:58	0.1	0.2	0.7
253	06/16/2009 10:59	0.2	0.2	0.3
254	06/16/2009 11:00	0.2	0.2	0.3
255	06/16/2009 11:01	0.1	0.1	0.3
256	06/16/2009 11:02	0.1	0.1	0.3
257	06/16/2009 11:03	0.1	0.1	0.2
258	06/16/2009 11:04	0.1	0.2	0.6
259	06/16/2009 11:05	0.1	0.2	0.4
260	06/16/2009 11:06	0.1	0.1	0.3
261	06/16/2009 11:07	0.1	0.2	0.3
262	06/16/2009 11:08	0.1	0.2	0.4
263	06/16/2009 11:09	0.1	0.1	0.3
264	06/16/2009 11:10	0.1	0.2	0.4
265	06/16/2009 11:11	0.1	0.2	0.3
266	06/16/2009 11:12	0.1	0.2	0.5
267	06/16/2009 11:13	0.1	0.2	0.3
268	06/16/2009 11:14	0.1	0.2	0.3
269	06/16/2009 11:15	0.1	0.2	0.3
270	06/16/2009 11:16	0.1	0.1	0.3
271	06/16/2009 11:17	0.2	0.2	0.3
272	06/16/2009 11:18	0.2	0.2	0.3
273	06/16/2009 11:19	0.2	0.2	0.3
274	06/16/2009 11:20	0.1	0.2	0.3
275	06/16/2009 11:21	0.1	0.2	0.4
276	06/16/2009 11:22	0.2	0.2	0.4
277	06/16/2009 11:23	0.1	0.2	0.3
278	06/16/2009 11:24	0.1	0.2	0.5
279	06/16/2009 11:25	0.2	0.2	0.3
280	06/16/2009 11:26	0.2	0.2	0.3
281	06/16/2009 11:27	0.1	0.2	0.7
282	06/16/2009 11:28	0.1	0.1	0.3
283	06/16/2009 11:29	0.2	0.2	0.4
284	06/16/2009 11:30	0.1	0.1	0.2
285	06/16/2009 11:31	0.1	0.2	0.5
286	06/16/2009 11:32	0.1	0.1	0.3
287	06/16/2009 11:33	0.1	0.2	0.3
288	06/16/2009 11:34	0.1	0.2	0.3
289	06/16/2009 11:35	0.1	0.2	0.3
290	06/16/2009 11:36	0.1	0.2	0.3
291	06/16/2009 11:37	0.1	0.1	0.3
292	06/16/2009 11:38	0.1	0.2	0.4
293	06/16/2009 11:39	0.2	0.2	0.4
294	06/16/2009 11:40	0.2	0.2	0.4
295	06/16/2009 11:41	0.1	0.2	0.3
296	06/16/2009 11:42	0.1	0.1	0.3
297	06/16/2009 11:43	0.1	0.1	0.3
298	06/16/2009 11:44	0.1	0.1	0.3
299	06/16/2009 11:45	0.1	0.2	0.4
300	06/16/2009 11:46	0.1	0.2	0.3
301	06/16/2009 11:47	0.1	0.2	0.3

302	06/16/2009 11:48	0.1	0.2	0.3
303	06/16/2009 11:49	0.1	0.2	0.4
304	06/16/2009 11:50	0.2	0.2	0.6
305	06/16/2009 11:51	0.2	0.2	0.4
306	06/16/2009 11:52	0.2	0.2	0.4
307	06/16/2009 11:53	0.2	0.2	0.4
308	06/16/2009 11:54	0.2	0.3	0.5
309	06/16/2009 11:55	0.3	0.3	0.5
310	06/16/2009 11:56	0.2	0.3	0.5
311	06/16/2009 11:57	0.2	0.3	0.5
312	06/16/2009 11:58	0.2	0.2	0.4
313	06/16/2009 11:59	0.1	0.2	0.4
314	06/16/2009 12:00	0.2	0.3	0.5
315	06/16/2009 12:01	0.1	0.1	0.3
316	06/16/2009 12:02	0.1	0.1	0.2
317	06/16/2009 12:03	0.1	0.1	0.2
318	06/16/2009 12:04	0.1	0.2	0.3
319	06/16/2009 12:05	0.1	0.1	0.4
320	06/16/2009 12:06	0.1	0.1	0.3
321	06/16/2009 12:07	0.1	0.1	0.3
322	06/16/2009 12:08	0.1	0.1	0.2
323	06/16/2009 12:09	0.1	0.2	0.5
324	06/16/2009 12:10	0.1	0.1	0.3
325	06/16/2009 12:11	0.0	0.1	0.3
326	06/16/2009 12:12	0.0	0.1	0.2
327	06/16/2009 12:13	0.0	0.1	0.4
328	06/16/2009 12:14	0.0	0.1	0.3
329	06/16/2009 12:15	0.0	0.1	0.3
330	06/16/2009 12:16	0.1	0.1	0.3
331	06/16/2009 12:17	0.1	0.1	0.2
332	06/16/2009 12:18	0.0	0.1	0.2
333	06/16/2009 12:19	0.0	0.1	0.2
334	06/16/2009 12:20	0.0	0.1	0.2
335	06/16/2009 12:21	0.0	0.1	0.3
336	06/16/2009 12:22	0.0	0.1	0.3
337	06/16/2009 12:23	0.1	0.1	0.3
338	06/16/2009 12:24	0.0	0.1	0.2
339	06/16/2009 12:25	0.0	0.1	0.2
340	06/16/2009 12:26	0.1	0.1	0.3
341	06/16/2009 12:27	0.1	0.2	0.4
342	06/16/2009 12:28	0.0	0.1	0.5
343	06/16/2009 12:29	0.1	0.1	0.5
344	06/16/2009 12:30	0.0	0.1	0.2
345	06/16/2009 12:31	0.0	0.1	0.2
346	06/16/2009 12:32	0.0	0.1	0.2
347	06/16/2009 12:33	0.1	0.2	0.4
348	06/16/2009 12:34	0.1	0.1	0.4
349	06/16/2009 12:35	0.0	0.1	0.4
350	06/16/2009 12:36	0.0	0.1	0.2
351	06/16/2009 12:37	0.0	0.1	0.2
352	06/16/2009 12:38	0.1	0.1	0.2
353	06/16/2009 12:39	0.1	0.1	0.3

354	06/16/2009 12:40	0.1	0.1	0.2
355	06/16/2009 12:41	0.1	0.2	0.4
356	06/16/2009 12:42	0.0	0.1	0.3
357	06/16/2009 12:43	0.0	0.1	0.2
358	06/16/2009 12:44	0.0	0.1	0.2
359	06/16/2009 12:45	0.0	0.1	0.3
360	06/16/2009 12:46	0.1	0.1	0.2
361	06/16/2009 12:47	0.0	0.1	0.2
362	06/16/2009 12:48	0.1	0.1	0.4
363	06/16/2009 12:49	0.1	0.1	0.4
364	06/16/2009 12:50	0.1	0.1	0.2
365	06/16/2009 12:51	0.1	0.1	0.2
366	06/16/2009 12:52	0.1	0.1	0.2
367	06/16/2009 12:53	0.1	0.1	0.4
368	06/16/2009 12:54	0.1	0.1	0.3
369	06/16/2009 12:55	0.1	0.1	0.2
370	06/16/2009 12:56	0.1	0.1	0.3
371	06/16/2009 12:57	0.1	0.1	0.2
372	06/16/2009 12:58	0.1	0.1	0.2
373	06/16/2009 12:59	0.1	0.1	0.3
374	06/16/2009 13:00	0.1	0.1	0.2
375	06/16/2009 13:01	0.1	0.1	0.3
376	06/16/2009 13:02	0.1	0.2	0.3
377	06/16/2009 13:03	0.1	0.1	0.3
378	06/16/2009 13:04	0.1	0.1	0.3
379	06/16/2009 13:05	0.1	0.1	0.4
380	06/16/2009 13:06	0.0	0.1	0.2
381	06/16/2009 13:07	0.1	0.1	0.2
382	06/16/2009 13:08	0.1	0.1	0.2
383	06/16/2009 13:09	0.0	0.1	0.2
384	06/16/2009 13:10	0.1	0.1	0.2
385	06/16/2009 13:11	0.0	0.1	0.2
386	06/16/2009 13:12	0.1	0.1	0.2
387	06/16/2009 13:13	0.0	0.1	0.3
388	06/16/2009 13:14	0.0	0.1	0.2
389	06/16/2009 13:15	0.1	0.1	0.3
390	06/16/2009 13:16	0.0	0.1	0.3
391	06/16/2009 13:17	0.1	0.1	0.3
392	06/16/2009 13:18	0.1	0.1	0.3
393	06/16/2009 13:19	0.1	0.1	0.2
394	06/16/2009 13:20	0.1	0.2	0.6
395	06/16/2009 13:21	0.1	0.2	0.4
396	06/16/2009 13:22	0.1	0.1	0.3
397	06/16/2009 13:23	0.1	0.1	0.2
398	06/16/2009 13:24	0.1	0.1	0.3
399	06/16/2009 13:25	0.1	0.1	0.2
400	06/16/2009 13:26	0.1	0.1	0.3
401	06/16/2009 13:27	0.1	0.1	0.3
402	06/16/2009 13:28	0.1	0.1	0.3
403	06/16/2009 13:29	0.1	0.1	0.4
404	06/16/2009 13:30	0.1	0.2	0.4
405	06/16/2009 13:31	0.1	0.1	0.2



406	06/16/2009 13:32	0.1	0.1	0.3
407	06/16/2009 13:33	0.1	0.1	0.4
408	06/16/2009 13:34	0.1	0.1	0.2
409	06/16/2009 13:35	0.1	0.1	0.3
410	06/16/2009 13:36	0.1	0.2	0.5
411	06/16/2009 13:37	0.1	0.2	0.5
412	06/16/2009 13:38	0.1	0.1	0.3
413	06/16/2009 13:39	0.1	0.1	0.4
414	06/16/2009 13:40	0.1	0.1	0.3
415	06/16/2009 13:41	0.1	0.1	0.3
416	06/16/2009 13:42	0.1	0.1	0.3
417	06/16/2009 13:43	0.1	0.1	0.3
418	06/16/2009 13:44	0.0	0.1	0.2
419	06/16/2009 13:45	0.0	0.1	0.4
420	06/16/2009 13:46	0.1	0.1	0.5
421	06/16/2009 13:47	0.1	0.1	0.2
422	06/16/2009 13:48	0.0	0.1	0.2
423	06/16/2009 13:49	0.0	0.1	0.4
424	06/16/2009 13:50	0.0	0.1	0.2
425	06/16/2009 13:51	0.0	0.1	0.2
426	06/16/2009 13:52	0.1	0.1	0.5
427	06/16/2009 13:53	0.1	0.1	0.3
428	06/16/2009 13:54	0.0	0.1	0.4
429	06/16/2009 13:55	0.1	0.1	0.2
430	06/16/2009 13:56	0.1	0.1	0.4
431	06/16/2009 13:57	0.1	0.2	0.6
432	06/16/2009 13:58	0.1	0.2	0.7
433	06/16/2009 13:59	0.1	0.2	0.4
434	06/16/2009 14:00	0.1	0.1	0.3
435	06/16/2009 14:01	0.0	0.2	0.7
436	06/16/2009 14:02	0.0	0.1	0.2
437	06/16/2009 14:03	0.1	0.3	1.5
438	06/16/2009 14:04	0.1	0.4	1.1
439	06/16/2009 14:05	0.2	0.4	0.7
440	06/16/2009 14:06	0.3	0.5	0.8
441	06/16/2009 14:07	0.1	0.2	0.7
442	06/16/2009 14:08	0.1	0.2	0.5
443	06/16/2009 14:09	0.1	0.2	0.5
444	06/16/2009 14:10	0.1	0.2	1.0
445	06/16/2009 14:11	0.1	0.2	0.5
446	06/16/2009 14:12	0.1	0.1	0.2
447	06/16/2009 14:13	0.1	0.4	1.7
448	06/16/2009 14:14	0.1	0.6	1.2
449	06/16/2009 14:15	0.5	0.7	1.1
450	06/16/2009 14:16	0.4	0.7	1.3
451	06/16/2009 14:17	0.1	0.4	0.7
452	06/16/2009 14:18	0.1	0.2	0.5
453	06/16/2009 14:19	0.1	0.2	0.4
454	06/16/2009 14:20	0.1	0.3	0.7
455	06/16/2009 14:21	0.1	0.3	1.0
456	06/16/2009 14:22	0.1	0.2	0.6
457	06/16/2009 14:23	0.0	0.1	0.2

458	06/16/2009 14:24	0.1	0.1	0.2
459	06/16/2009 14:25	0.0	0.0	0.1
460	06/16/2009 14:26	0.0	0.0	0.1
461	06/16/2009 14:27	0.0	0.0	0.2
462	06/16/2009 14:28	0.0	0.0	0.2
463	06/16/2009 14:29	0.0	0.1	0.2
464	06/16/2009 14:30	0.0	0.1	0.2
465	06/16/2009 14:31	0.0	0.0	0.1
466	06/16/2009 14:32	0.0	0.1	0.2
467	06/16/2009 14:33	0.0	0.0	0.2
468	06/16/2009 14:34	0.0	0.1	0.3
469	06/16/2009 14:35	0.0	0.1	0.2
470	06/16/2009 14:36	0.0	0.0	0.1
471	06/16/2009 14:37	0.0	0.0	0.2
472	06/16/2009 14:38	0.0	0.0	0.2
473	06/16/2009 14:39	0.0	0.1	0.4
474	06/16/2009 14:40	0.0	0.1	0.3
475	06/16/2009 14:41	0.0	0.1	0.3
476	06/16/2009 14:42	0.0	0.0	0.2
477	06/16/2009 14:43	0.0	0.0	0.1
478	06/16/2009 14:44	0.0	0.0	0.1
479	06/16/2009 14:45	0.0	0.0	0.2
480	06/16/2009 14:46	0.0	0.0	0.2
481	06/16/2009 14:47	0.0	0.0	0.1
482	06/16/2009 14:48	0.0	0.0	0.1
483	06/16/2009 14:49	0.0	0.1	0.2
484	06/16/2009 14:50	0.0	0.1	0.2
485	06/16/2009 14:51	0.0	0.1	0.2
486	06/16/2009 14:52	0.0	0.0	0.2
487	06/16/2009 14:53	0.0	0.0	0.2
488	06/16/2009 14:54	0.0	0.1	0.2
489	06/16/2009 14:55	0.0	0.0	0.2
490	06/16/2009 14:56	0.0	0.0	0.1
491	06/16/2009 14:57	0.0	0.0	0.1
492	06/16/2009 14:58	0.0	0.0	0.2
493	06/16/2009 14:59	0.0	0.1	0.3
494	06/16/2009 15:00	0.0	0.0	0.2
495	06/16/2009 15:01	0.0	0.0	0.1
496	06/16/2009 15:02	0.0	0.0	0.2
497	06/16/2009 15:03	0.0	0.1	0.2
498	06/16/2009 15:04	0.0	0.1	0.2
499	06/16/2009 15:05	0.0	0.0	0.1
500	06/16/2009 15:06	0.0	0.0	0.1
501	06/16/2009 15:07	0.0	0.0	0.1
502	06/16/2009 15:08	0.0	0.0	0.1
503	06/16/2009 15:09	0.0	0.0	0.2
504	06/16/2009 15:10	0.0	0.0	0.1
505	06/16/2009 15:11	0.0	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 506 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/16/2009 06:36      0.0      0.0      0.0
2 06/16/2009 06:37      0.0      0.0      0.0
3 06/16/2009 06:38      0.0      0.0      0.0
4 06/16/2009 06:39      0.0      0.0      0.0
5 06/16/2009 06:40      0.0      0.0      0.0
6 06/16/2009 06:41      0.0      0.0      0.0
7 06/16/2009 06:42      0.0      0.0      0.0
8 06/16/2009 06:43      0.0      0.0      0.0
9 06/16/2009 06:44      0.0      0.0      0.0
10 06/16/2009 06:45      0.0      0.0      0.0
11 06/16/2009 06:46      0.0      0.0      0.0
12 06/16/2009 06:47      0.0      0.0      0.0
13 06/16/2009 06:48      0.0      0.0      0.0
14 06/16/2009 06:49      0.0      0.0      0.0
15 06/16/2009 06:50      0.0      0.0      0.0
16 06/16/2009 06:51      0.0      0.0      0.0
17 06/16/2009 06:52      0.0      0.0      0.0
18 06/16/2009 06:53      0.0      0.0      0.0
19 06/16/2009 06:54      0.0      0.0      0.0
20 06/16/2009 06:55      0.0      0.0      0.0
21 06/16/2009 06:56      0.0      0.0      0.0
22 06/16/2009 06:57      0.0      0.0      0.0
23 06/16/2009 06:58      0.0      0.0      0.0
24 06/16/2009 06:59      0.0      0.0      0.0
25 06/16/2009 07:00      0.0      0.0      0.0
26 06/16/2009 07:01      0.0      0.0      0.0
27 06/16/2009 07:02      0.0      0.0      0.0
28 06/16/2009 07:03      0.0      0.0      0.0
29 06/16/2009 07:04      0.0      0.0      0.0
30 06/16/2009 07:05      0.0      0.0      0.0
31 06/16/2009 07:06      0.0      0.0      0.0
32 06/16/2009 07:07      0.0      0.0      0.0
33 06/16/2009 07:08      0.0      0.0      0.0
34 06/16/2009 07:09      0.0      0.0      0.0
35 06/16/2009 07:10      0.0      0.0      0.0
36 06/16/2009 07:11      0.0      0.0      0.0
37 06/16/2009 07:12      0.0      0.0      0.0
38 06/16/2009 07:13      0.0      0.0      0.0
39 06/16/2009 07:14      0.0      0.0      0.0
40 06/16/2009 07:15      0.0      0.0      0.0
41 06/16/2009 07:16      0.0      0.0      0.0
```

42	06/16/2009 07:17	0.0	0.0	0.0
43	06/16/2009 07:18	0.0	0.0	0.0
44	06/16/2009 07:19	0.0	0.0	0.0
45	06/16/2009 07:20	0.0	0.0	0.0
46	06/16/2009 07:21	0.0	0.0	0.0
47	06/16/2009 07:22	0.0	0.0	0.0
48	06/16/2009 07:23	0.0	0.0	0.0
49	06/16/2009 07:24	0.0	0.0	0.0
50	06/16/2009 07:25	0.0	0.0	0.0
51	06/16/2009 07:26	0.0	0.0	0.0
52	06/16/2009 07:27	0.0	0.0	0.0
53	06/16/2009 07:28	0.0	0.0	0.0
54	06/16/2009 07:29	0.0	0.0	0.0
55	06/16/2009 07:30	0.0	0.0	0.0
56	06/16/2009 07:31	0.0	0.0	0.0
57	06/16/2009 07:32	0.0	0.0	0.0
58	06/16/2009 07:33	0.0	0.0	0.0
59	06/16/2009 07:34	0.0	0.0	0.0
60	06/16/2009 07:35	0.0	0.0	0.0
61	06/16/2009 07:36	0.0	0.0	0.0
62	06/16/2009 07:37	0.0	0.0	0.0
63	06/16/2009 07:38	0.0	0.0	0.0
64	06/16/2009 07:39	0.0	0.0	0.0
65	06/16/2009 07:40	0.0	0.0	0.0
66	06/16/2009 07:41	0.0	0.0	0.0
67	06/16/2009 07:42	0.0	0.0	0.0
68	06/16/2009 07:43	0.0	0.0	0.0
69	06/16/2009 07:44	0.0	0.0	0.0
70	06/16/2009 07:45	0.0	0.0	0.0
71	06/16/2009 07:46	0.0	0.0	0.0
72	06/16/2009 07:47	0.0	0.0	0.0
73	06/16/2009 07:48	0.0	0.0	0.0
74	06/16/2009 07:49	0.0	0.0	0.0
75	06/16/2009 07:50	0.0	0.0	0.0
76	06/16/2009 07:51	0.0	0.0	0.0
77	06/16/2009 07:52	0.0	0.0	0.0
78	06/16/2009 07:53	0.0	0.0	0.0
79	06/16/2009 07:54	0.0	0.0	0.0
80	06/16/2009 07:55	0.0	0.0	0.0
81	06/16/2009 07:56	0.0	0.0	0.0
82	06/16/2009 07:57	0.0	0.0	0.0
83	06/16/2009 07:58	0.0	0.0	0.0
84	06/16/2009 07:59	0.0	0.0	0.0
85	06/16/2009 08:00	0.0	0.0	0.0
86	06/16/2009 08:01	0.0	0.0	0.0
87	06/16/2009 08:02	0.0	0.0	0.0
88	06/16/2009 08:03	0.0	0.0	0.0
89	06/16/2009 08:04	0.0	0.0	0.0
90	06/16/2009 08:05	0.0	0.0	0.0
91	06/16/2009 08:06	0.0	0.0	0.0
92	06/16/2009 08:07	0.0	0.0	0.0
93	06/16/2009 08:08	0.0	0.0	0.0

94	06/16/2009 08:09	0.0	0.0	0.0
95	06/16/2009 08:10	0.0	0.0	0.0
96	06/16/2009 08:11	0.0	0.0	0.0
97	06/16/2009 08:12	0.0	0.0	0.0
98	06/16/2009 08:13	0.0	0.0	0.0
99	06/16/2009 08:14	0.0	0.0	0.0
100	06/16/2009 08:15	0.0	0.0	0.0
101	06/16/2009 08:16	0.0	0.0	0.0
102	06/16/2009 08:17	0.0	0.0	0.0
103	06/16/2009 08:18	0.0	0.0	0.0
104	06/16/2009 08:19	0.0	0.0	0.0
105	06/16/2009 08:20	0.0	0.0	0.0
106	06/16/2009 08:21	0.0	0.0	0.0
107	06/16/2009 08:22	0.0	0.0	0.0
108	06/16/2009 08:23	0.0	0.0	0.0
109	06/16/2009 08:24	0.0	0.0	0.0
110	06/16/2009 08:25	0.0	0.0	0.0
111	06/16/2009 08:26	0.0	0.0	0.0
112	06/16/2009 08:27	0.0	0.0	0.0
113	06/16/2009 08:28	0.0	0.0	0.0
114	06/16/2009 08:29	0.0	0.0	0.0
115	06/16/2009 08:30	0.0	0.0	0.0
116	06/16/2009 08:31	0.0	0.0	0.0
117	06/16/2009 08:32	0.0	0.0	0.0
118	06/16/2009 08:33	0.0	0.0	0.0
119	06/16/2009 08:34	0.0	0.0	0.0
120	06/16/2009 08:35	0.0	0.0	0.0
121	06/16/2009 08:36	0.0	0.0	0.0
122	06/16/2009 08:37	0.0	0.0	0.0
123	06/16/2009 08:38	0.0	0.0	0.0
124	06/16/2009 08:39	0.0	0.0	0.0
125	06/16/2009 08:40	0.0	0.0	0.0
126	06/16/2009 08:41	0.0	0.0	0.0
127	06/16/2009 08:42	0.0	0.0	0.0
128	06/16/2009 08:43	0.0	0.0	0.0
129	06/16/2009 08:44	0.0	0.0	0.0
130	06/16/2009 08:45	0.0	0.0	0.0
131	06/16/2009 08:46	0.0	0.0	0.0
132	06/16/2009 08:47	0.0	0.0	0.0
133	06/16/2009 08:48	0.0	0.0	0.0
134	06/16/2009 08:49	0.0	0.0	0.0
135	06/16/2009 08:50	0.0	0.0	0.0
136	06/16/2009 08:51	0.0	0.0	0.0
137	06/16/2009 08:52	0.0	0.0	0.0
138	06/16/2009 08:53	0.0	0.0	0.0
139	06/16/2009 08:54	0.0	0.0	0.0
140	06/16/2009 08:55	0.0	0.0	0.0
141	06/16/2009 08:56	0.0	0.0	0.0
142	06/16/2009 08:57	0.0	0.0	0.0
143	06/16/2009 08:58	0.0	0.0	0.0
144	06/16/2009 08:59	0.0	0.0	0.0
145	06/16/2009 09:00	0.0	0.0	0.0

146	06/16/2009 09:01	0.0	0.0	0.0
147	06/16/2009 09:02	0.0	0.0	0.0
148	06/16/2009 09:03	0.0	0.0	0.0
149	06/16/2009 09:04	0.0	0.0	0.0
150	06/16/2009 09:05	0.0	0.0	0.0
151	06/16/2009 09:06	0.0	0.0	0.0
152	06/16/2009 09:07	0.0	0.0	0.0
153	06/16/2009 09:08	0.0	0.0	0.0
154	06/16/2009 09:09	0.0	0.0	0.0
155	06/16/2009 09:10	0.0	0.0	0.0
156	06/16/2009 09:11	0.0	0.0	0.0
157	06/16/2009 09:12	0.0	0.0	0.0
158	06/16/2009 09:13	0.0	0.0	0.0
159	06/16/2009 09:14	0.0	0.0	0.0
160	06/16/2009 09:15	0.0	0.0	0.0
161	06/16/2009 09:16	0.0	0.0	0.0
162	06/16/2009 09:17	0.0	0.0	0.0
163	06/16/2009 09:18	0.0	0.0	0.0
164	06/16/2009 09:19	0.0	0.0	0.0
165	06/16/2009 09:20	0.0	0.0	0.0
166	06/16/2009 09:21	0.0	0.0	0.0
167	06/16/2009 09:22	0.0	0.0	0.0
168	06/16/2009 09:23	0.0	0.0	0.0
169	06/16/2009 09:24	0.0	0.0	0.0
170	06/16/2009 09:25	0.0	0.0	0.0
171	06/16/2009 09:26	0.0	0.0	0.0
172	06/16/2009 09:27	0.0	0.0	0.0
173	06/16/2009 09:28	0.0	0.0	0.0
174	06/16/2009 09:29	0.0	0.0	0.0
175	06/16/2009 09:30	0.0	0.0	0.0
176	06/16/2009 09:31	0.0	0.0	0.0
177	06/16/2009 09:32	0.0	0.0	0.0
178	06/16/2009 09:33	0.0	0.0	0.0
179	06/16/2009 09:34	0.0	0.0	0.0
180	06/16/2009 09:35	0.0	0.0	0.0
181	06/16/2009 09:36	0.0	0.0	0.0
182	06/16/2009 09:37	0.0	0.0	0.0
183	06/16/2009 09:38	0.0	0.0	0.0
184	06/16/2009 09:39	0.0	0.0	0.0
185	06/16/2009 09:40	0.0	0.0	0.0
186	06/16/2009 09:41	0.0	0.0	0.0
187	06/16/2009 09:42	0.0	0.0	0.0
188	06/16/2009 09:43	0.0	0.0	0.0
189	06/16/2009 09:44	0.0	0.0	0.0
190	06/16/2009 09:45	0.0	0.0	0.0
191	06/16/2009 09:46	0.0	0.0	0.0
192	06/16/2009 09:47	0.0	0.0	0.0
193	06/16/2009 09:48	0.0	0.0	0.0
194	06/16/2009 09:49	0.0	0.0	0.0
195	06/16/2009 09:50	0.0	0.0	0.0
196	06/16/2009 09:51	0.0	0.0	0.0
197	06/16/2009 09:52	0.0	0.0	0.0

198	06/16/2009 09:53	0.0	0.0	0.0
199	06/16/2009 09:54	0.0	0.0	0.0
200	06/16/2009 09:55	0.0	0.0	0.0
201	06/16/2009 09:56	0.0	0.0	0.0
202	06/16/2009 09:57	0.0	0.0	0.0
203	06/16/2009 09:58	0.0	0.0	0.0
204	06/16/2009 09:59	0.0	0.0	0.0
205	06/16/2009 10:00	0.0	0.0	0.0
206	06/16/2009 10:01	0.0	0.0	0.0
207	06/16/2009 10:02	0.0	0.0	0.0
208	06/16/2009 10:03	0.0	0.0	0.0
209	06/16/2009 10:04	0.0	0.0	0.0
210	06/16/2009 10:05	0.0	0.0	0.0
211	06/16/2009 10:06	0.0	0.0	0.0
212	06/16/2009 10:07	0.0	0.0	0.0
213	06/16/2009 10:08	0.0	0.0	0.0
214	06/16/2009 10:09	0.0	0.0	0.0
215	06/16/2009 10:10	0.0	0.0	0.0
216	06/16/2009 10:11	0.0	0.0	0.0
217	06/16/2009 10:12	0.0	0.0	0.0
218	06/16/2009 10:13	0.0	0.0	0.0
219	06/16/2009 10:14	0.0	0.0	0.0
220	06/16/2009 10:15	0.0	0.0	0.0
221	06/16/2009 10:16	0.0	0.0	0.0
222	06/16/2009 10:17	0.0	0.0	0.0
223	06/16/2009 10:18	0.0	0.0	0.0
224	06/16/2009 10:19	0.0	0.0	0.0
225	06/16/2009 10:20	0.0	0.0	0.0
226	06/16/2009 10:21	0.0	0.0	0.0
227	06/16/2009 10:22	0.0	0.0	0.0
228	06/16/2009 10:23	0.0	0.0	0.0
229	06/16/2009 10:24	0.0	0.0	0.0
230	06/16/2009 10:25	0.0	0.0	0.0
231	06/16/2009 10:26	0.0	0.0	0.0
232	06/16/2009 10:27	0.0	0.0	0.0
233	06/16/2009 10:28	0.0	0.0	0.0
234	06/16/2009 10:29	0.0	0.0	0.0
235	06/16/2009 10:30	0.0	0.0	0.0
236	06/16/2009 10:31	0.0	0.0	0.0
237	06/16/2009 10:32	0.0	0.0	0.0
238	06/16/2009 10:33	0.0	0.0	0.0
239	06/16/2009 10:34	0.0	0.0	0.0
240	06/16/2009 10:35	0.0	0.0	0.0
241	06/16/2009 10:36	0.0	0.0	0.0
242	06/16/2009 10:37	0.0	0.0	0.0
243	06/16/2009 10:38	0.0	0.0	0.0
244	06/16/2009 10:39	0.0	0.0	0.0
245	06/16/2009 10:40	0.0	0.0	0.0
246	06/16/2009 10:41	0.0	0.0	0.0
247	06/16/2009 10:42	0.0	0.0	0.0
248	06/16/2009 10:43	0.0	0.0	0.0
249	06/16/2009 10:44	0.0	0.0	0.0

250	06/16/2009 10:45	0.0	0.0	0.0
251	06/16/2009 10:46	0.0	0.0	0.0
252	06/16/2009 10:47	0.0	0.0	0.0
253	06/16/2009 10:48	0.0	0.0	0.0
254	06/16/2009 10:49	0.0	0.0	0.0
255	06/16/2009 10:50	0.0	0.0	0.0
256	06/16/2009 10:51	0.0	0.0	0.0
257	06/16/2009 10:52	0.0	0.0	0.0
258	06/16/2009 10:53	0.0	0.0	0.0
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260	06/16/2009 10:55	0.0	0.0	0.0
261	06/16/2009 10:56	0.0	0.0	0.0
262	06/16/2009 10:57	0.0	0.0	0.0
263	06/16/2009 10:58	0.0	0.0	0.0
264	06/16/2009 10:59	0.0	0.0	0.0
265	06/16/2009 11:00	0.0	0.0	0.0
266	06/16/2009 11:01	0.0	0.0	0.0
267	06/16/2009 11:02	0.0	0.0	0.0
268	06/16/2009 11:03	0.0	0.0	0.0
269	06/16/2009 11:04	0.0	0.0	0.0
270	06/16/2009 11:05	0.0	0.0	0.0
271	06/16/2009 11:06	0.0	0.0	0.0
272	06/16/2009 11:07	0.0	0.0	0.0
273	06/16/2009 11:08	0.0	0.0	0.0
274	06/16/2009 11:09	0.0	0.0	0.0
275	06/16/2009 11:10	0.0	0.0	0.0
276	06/16/2009 11:11	0.0	0.0	0.0
277	06/16/2009 11:12	0.0	0.0	0.0
278	06/16/2009 11:13	0.0	0.0	0.0
279	06/16/2009 11:14	0.0	0.0	0.0
280	06/16/2009 11:15	0.0	0.0	0.0
281	06/16/2009 11:16	0.0	0.0	0.0
282	06/16/2009 11:17	0.0	0.0	0.0
283	06/16/2009 11:18	0.0	0.0	0.0
284	06/16/2009 11:19	0.0	0.0	0.0
285	06/16/2009 11:20	0.0	0.0	0.0
286	06/16/2009 11:21	0.0	0.0	0.0
287	06/16/2009 11:22	0.0	0.0	0.0
288	06/16/2009 11:23	0.0	0.0	0.0
289	06/16/2009 11:24	0.0	0.0	0.0
290	06/16/2009 11:25	0.0	0.0	0.0
291	06/16/2009 11:26	0.0	0.0	0.0
292	06/16/2009 11:27	0.0	0.0	0.0
293	06/16/2009 11:28	0.0	0.0	0.0
294	06/16/2009 11:29	0.0	0.0	0.0
295	06/16/2009 11:30	0.0	0.0	0.0
296	06/16/2009 11:31	0.0	0.0	0.0
297	06/16/2009 11:32	0.0	0.0	0.0
298	06/16/2009 11:33	0.0	0.0	0.0
299	06/16/2009 11:34	0.0	0.0	0.0
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302	06/16/2009 11:37	0.0	0.0	0.0
303	06/16/2009 11:38	0.0	0.0	0.0
304	06/16/2009 11:39	0.0	0.0	0.0
305	06/16/2009 11:40	0.0	0.0	0.0
306	06/16/2009 11:41	0.0	0.0	0.0
307	06/16/2009 11:42	0.0	0.0	0.0
308	06/16/2009 11:43	0.0	0.0	0.0
309	06/16/2009 11:44	0.0	0.0	0.0
310	06/16/2009 11:45	0.0	0.0	0.0
311	06/16/2009 11:46	0.0	0.0	0.0
312	06/16/2009 11:47	0.0	0.0	0.0
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322	06/16/2009 11:57	0.0	0.0	0.0
323	06/16/2009 11:58	0.0	0.0	0.0
324	06/16/2009 11:59	0.0	0.0	0.0
325	06/16/2009 12:00	0.0	0.0	0.0
326	06/16/2009 12:01	0.0	0.0	0.0
327	06/16/2009 12:02	0.0	0.0	0.0
328	06/16/2009 12:03	0.0	0.0	0.0
329	06/16/2009 12:04	0.0	0.0	0.0
330	06/16/2009 12:05	0.0	0.0	0.0
331	06/16/2009 12:06	0.0	0.0	0.0
332	06/16/2009 12:07	0.0	0.0	0.0
333	06/16/2009 12:08	0.0	0.0	0.0
334	06/16/2009 12:09	0.0	0.0	0.0
335	06/16/2009 12:10	0.0	0.0	0.0
336	06/16/2009 12:11	0.0	0.0	0.0
337	06/16/2009 12:12	0.0	0.0	0.0
338	06/16/2009 12:13	0.0	0.0	0.0
339	06/16/2009 12:14	0.0	0.0	0.0
340	06/16/2009 12:15	0.0	0.0	0.0
341	06/16/2009 12:16	0.0	0.0	0.0
342	06/16/2009 12:17	0.0	0.0	0.0
343	06/16/2009 12:18	0.0	0.0	0.0
344	06/16/2009 12:19	0.0	0.0	0.0
345	06/16/2009 12:20	0.0	0.0	0.0
346	06/16/2009 12:21	0.0	0.0	0.0
347	06/16/2009 12:22	0.0	0.0	0.0
348	06/16/2009 12:23	0.0	0.0	0.0
349	06/16/2009 12:24	0.0	0.0	0.0
350	06/16/2009 12:25	0.0	0.0	0.0
351	06/16/2009 12:26	0.0	0.0	0.0
352	06/16/2009 12:27	0.0	0.0	0.0
353	06/16/2009 12:28	0.0	0.0	0.0

354	06/16/2009 12:29	0.0	0.0	0.0
355	06/16/2009 12:30	0.0	0.0	0.0
356	06/16/2009 12:31	0.0	0.0	0.0
357	06/16/2009 12:32	0.0	0.0	0.0
358	06/16/2009 12:33	0.0	0.0	0.0
359	06/16/2009 12:34	0.0	0.0	0.0
360	06/16/2009 12:35	0.0	0.0	0.0
361	06/16/2009 12:36	0.0	0.0	0.0
362	06/16/2009 12:37	0.0	0.0	0.0
363	06/16/2009 12:38	0.0	0.0	0.0
364	06/16/2009 12:39	0.0	0.0	0.0
365	06/16/2009 12:40	0.0	0.0	0.0
366	06/16/2009 12:41	0.0	0.0	0.0
367	06/16/2009 12:42	0.0	0.0	0.0
368	06/16/2009 12:43	0.0	0.0	0.0
369	06/16/2009 12:44	0.0	0.0	0.0
370	06/16/2009 12:45	0.0	0.0	0.0
371	06/16/2009 12:46	0.0	0.0	0.0
372	06/16/2009 12:47	0.0	0.0	0.0
373	06/16/2009 12:48	0.0	0.0	0.0
374	06/16/2009 12:49	0.0	0.0	0.0
375	06/16/2009 12:50	0.0	0.0	0.0
376	06/16/2009 12:51	0.0	0.0	0.0
377	06/16/2009 12:52	0.0	0.0	0.0
378	06/16/2009 12:53	0.0	0.0	0.0
379	06/16/2009 12:54	0.0	0.0	0.0
380	06/16/2009 12:55	0.0	0.0	0.0
381	06/16/2009 12:56	0.0	0.0	0.0
382	06/16/2009 12:57	0.0	0.0	0.0
383	06/16/2009 12:58	0.0	0.0	0.0
384	06/16/2009 12:59	0.0	0.0	0.0
385	06/16/2009 13:00	0.0	0.0	0.0
386	06/16/2009 13:01	0.0	0.0	0.0
387	06/16/2009 13:02	0.0	0.0	0.0
388	06/16/2009 13:03	0.0	0.0	0.0
389	06/16/2009 13:04	0.0	0.0	0.0
390	06/16/2009 13:05	0.0	0.0	0.0
391	06/16/2009 13:06	0.0	0.0	0.0
392	06/16/2009 13:07	0.0	0.0	0.0
393	06/16/2009 13:08	0.0	0.0	0.0
394	06/16/2009 13:09	0.0	0.0	0.0
395	06/16/2009 13:10	0.0	0.0	0.0
396	06/16/2009 13:11	0.0	0.0	0.0
397	06/16/2009 13:12	0.0	0.0	0.0
398	06/16/2009 13:13	0.0	0.0	0.0
399	06/16/2009 13:14	0.0	0.0	0.0
400	06/16/2009 13:15	0.0	0.0	0.0
401	06/16/2009 13:16	0.0	0.0	0.0
402	06/16/2009 13:17	0.0	0.0	0.0
403	06/16/2009 13:18	0.0	0.0	0.0
404	06/16/2009 13:19	0.0	0.0	0.0
405	06/16/2009 13:20	0.0	0.0	0.0

406	06/16/2009 13:21	0.0	0.0	0.0
407	06/16/2009 13:22	0.0	0.0	0.0
408	06/16/2009 13:23	0.0	0.0	0.0
409	06/16/2009 13:24	0.0	0.0	0.0
410	06/16/2009 13:25	0.0	0.0	0.0
411	06/16/2009 13:26	0.0	0.0	0.0
412	06/16/2009 13:27	0.0	0.0	0.0
413	06/16/2009 13:28	0.0	0.0	0.0
414	06/16/2009 13:29	0.0	0.0	0.0
415	06/16/2009 13:30	0.0	0.0	0.0
416	06/16/2009 13:31	0.0	0.0	0.0
417	06/16/2009 13:32	0.0	0.0	0.0
418	06/16/2009 13:33	0.0	0.0	0.0
419	06/16/2009 13:34	0.0	0.0	0.0
420	06/16/2009 13:35	0.0	0.0	0.0
421	06/16/2009 13:36	0.0	0.0	0.0
422	06/16/2009 13:37	0.0	0.0	0.0
423	06/16/2009 13:38	0.0	0.0	0.0
424	06/16/2009 13:39	0.0	0.0	0.0
425	06/16/2009 13:40	0.0	0.0	0.0
426	06/16/2009 13:41	0.0	0.0	0.0
427	06/16/2009 13:42	0.0	0.0	0.0
428	06/16/2009 13:43	0.0	0.0	0.0
429	06/16/2009 13:44	0.0	0.0	0.0
430	06/16/2009 13:45	0.0	0.0	0.0
431	06/16/2009 13:46	0.0	0.0	0.0
432	06/16/2009 13:47	0.0	0.0	0.0
433	06/16/2009 13:48	0.0	0.0	0.0
434	06/16/2009 13:49	0.0	0.0	0.0
435	06/16/2009 13:50	0.0	0.0	0.0
436	06/16/2009 13:51	0.0	0.0	0.0
437	06/16/2009 13:52	0.0	0.0	0.0
438	06/16/2009 13:53	0.0	0.0	0.0
439	06/16/2009 13:54	0.0	0.0	0.0
440	06/16/2009 13:55	0.0	0.0	0.0
441	06/16/2009 13:56	0.0	0.0	0.0
442	06/16/2009 13:57	0.0	0.0	0.0
443	06/16/2009 13:58	0.0	0.0	0.0
444	06/16/2009 13:59	0.0	0.0	0.0
445	06/16/2009 14:00	0.0	0.0	0.0
446	06/16/2009 14:01	0.0	0.0	0.0
447	06/16/2009 14:02	0.0	0.0	0.0
448	06/16/2009 14:03	0.0	0.0	0.0
449	06/16/2009 14:04	0.0	0.0	0.0
450	06/16/2009 14:05	0.0	0.0	0.0
451	06/16/2009 14:06	0.0	0.0	0.0
452	06/16/2009 14:07	0.0	0.0	0.0
453	06/16/2009 14:08	0.0	0.0	0.0
454	06/16/2009 14:09	0.0	0.0	0.0
455	06/16/2009 14:10	0.0	0.0	0.0
456	06/16/2009 14:11	0.0	0.0	0.0
457	06/16/2009 14:12	0.0	0.0	0.0

458	06/16/2009 14:13	0.0	0.0	0.0
459	06/16/2009 14:14	0.0	0.0	0.0
460	06/16/2009 14:15	0.0	0.0	0.0
461	06/16/2009 14:16	0.0	0.0	0.0
462	06/16/2009 14:17	0.0	0.0	0.0
463	06/16/2009 14:18	0.0	0.0	0.0
464	06/16/2009 14:19	0.0	0.0	0.0
465	06/16/2009 14:20	0.0	0.0	0.0
466	06/16/2009 14:21	0.0	0.0	0.0
467	06/16/2009 14:22	0.0	0.0	0.0
468	06/16/2009 14:23	0.0	0.0	0.0
469	06/16/2009 14:24	0.0	0.0	0.0
470	06/16/2009 14:25	0.0	0.0	0.0
471	06/16/2009 14:26	0.0	0.0	0.0
472	06/16/2009 14:27	0.0	0.0	0.0
473	06/16/2009 14:28	0.0	0.0	0.0
474	06/16/2009 14:29	0.0	0.0	0.0
475	06/16/2009 14:30	0.0	0.0	0.0
476	06/16/2009 14:31	0.0	0.0	0.0
477	06/16/2009 14:32	0.0	0.0	0.0
478	06/16/2009 14:33	0.0	0.0	0.0
479	06/16/2009 14:34	0.0	0.0	0.0
480	06/16/2009 14:35	0.0	0.0	0.0
481	06/16/2009 14:36	0.0	0.0	0.0
482	06/16/2009 14:37	0.0	0.0	0.0
483	06/16/2009 14:38	0.0	0.0	0.0
484	06/16/2009 14:39	0.0	0.0	0.0
485	06/16/2009 14:40	0.0	0.0	0.0
486	06/16/2009 14:41	0.0	0.0	0.0
487	06/16/2009 14:42	0.0	0.0	0.0
488	06/16/2009 14:43	0.0	0.0	0.0
489	06/16/2009 14:44	0.0	0.0	0.0
490	06/16/2009 14:45	0.0	0.0	0.0
491	06/16/2009 14:46	0.0	0.0	0.0
492	06/16/2009 14:47	0.0	0.0	0.0
493	06/16/2009 14:48	0.0	0.0	0.0
494	06/16/2009 14:49	0.0	0.0	0.0
495	06/16/2009 14:50	0.0	0.0	0.0
496	06/16/2009 14:51	0.0	0.0	0.0
497	06/16/2009 14:52	0.0	0.0	0.0
498	06/16/2009 14:53	0.0	0.0	0.0
499	06/16/2009 14:54	0.0	0.0	0.0
500	06/16/2009 14:55	0.0	0.0	0.0
501	06/16/2009 14:56	0.0	0.0	0.0
502	06/16/2009 14:57	0.0	0.0	0.0
503	06/16/2009 14:58	0.0	0.0	0.0
504	06/16/2009 14:59	0.0	0.0	0.0
505	06/16/2009 15:00	0.0	0.0	0.0
506	06/16/2009 15:01	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 501 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:57

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/17/2009 07:20      0.0      0.0      0.0
2 06/17/2009 07:21      0.0      0.0      0.0
3 06/17/2009 07:22      0.0      0.0      0.0
4 06/17/2009 07:23      0.0      0.0      0.0
5 06/17/2009 07:24      0.0      0.0      0.0
6 06/17/2009 07:25      0.0      0.0      0.0
7 06/17/2009 07:26      0.0      0.0      0.0
8 06/17/2009 07:27      0.0      0.0      0.0
9 06/17/2009 07:28      0.0      0.0      0.0
10 06/17/2009 07:29      0.0      0.0      0.0
11 06/17/2009 07:30      0.0      0.0      0.0
12 06/17/2009 07:31      0.0      0.0      0.0
13 06/17/2009 07:32      0.0      0.0      0.0
14 06/17/2009 07:33      0.0      0.0      0.0
15 06/17/2009 07:34      0.0      0.0      0.0
16 06/17/2009 07:35      0.0      0.0      0.0
17 06/17/2009 07:36      0.0      0.0      0.0
18 06/17/2009 07:37      0.0      0.0      0.0
19 06/17/2009 07:38      0.0      0.0      0.0
20 06/17/2009 07:39      0.0      0.0      0.0
21 06/17/2009 07:40      0.0      0.0      0.0
22 06/17/2009 07:41      0.0      0.0      0.0
23 06/17/2009 07:42      0.0      0.0      0.0
24 06/17/2009 07:43      0.0      0.0      0.0
25 06/17/2009 07:44      0.0      0.0      0.0
26 06/17/2009 07:45      0.0      0.0      0.0
27 06/17/2009 07:46      0.0      0.0      0.0
28 06/17/2009 07:47      0.0      0.0      0.0
29 06/17/2009 07:48      0.0      0.0      0.0
30 06/17/2009 07:49      0.0      0.0      0.0
31 06/17/2009 07:50      0.0      0.0      0.0
32 06/17/2009 07:51      0.0      0.0      0.0
33 06/17/2009 07:52      0.0      0.0      0.0
34 06/17/2009 07:53      0.0      0.0      0.0
35 06/17/2009 07:54      0.0      0.0      0.0
36 06/17/2009 07:55      0.0      0.0      0.0
37 06/17/2009 07:56      0.0      0.0      0.0
38 06/17/2009 07:57      0.0      0.0      0.0
39 06/17/2009 07:58      0.0      0.0      0.0
40 06/17/2009 07:59      0.0      0.0      0.0
41 06/17/2009 08:00      0.0      0.0      0.0
```

42	06/17/2009 08:01	0.0	0.0	0.0
43	06/17/2009 08:02	0.0	0.0	0.0
44	06/17/2009 08:03	0.0	0.0	0.0
45	06/17/2009 08:04	0.0	0.0	0.0
46	06/17/2009 08:05	0.0	0.0	0.0
47	06/17/2009 08:06	0.0	0.0	0.0
48	06/17/2009 08:07	0.0	0.0	0.0
49	06/17/2009 08:08	0.0	0.0	0.0
50	06/17/2009 08:09	0.0	0.0	0.0
51	06/17/2009 08:10	0.0	0.0	0.0
52	06/17/2009 08:11	0.0	0.0	0.0
53	06/17/2009 08:12	0.0	0.0	0.0
54	06/17/2009 08:13	0.0	0.0	0.0
55	06/17/2009 08:14	0.0	0.0	0.0
56	06/17/2009 08:15	0.0	0.0	0.0
57	06/17/2009 08:16	0.0	0.0	0.0
58	06/17/2009 08:17	0.0	0.0	0.0
59	06/17/2009 08:18	0.0	0.0	0.0
60	06/17/2009 08:19	0.0	0.0	0.0
61	06/17/2009 08:20	0.0	0.0	0.0
62	06/17/2009 08:21	0.0	0.0	0.0
63	06/17/2009 08:22	0.0	0.0	0.0
64	06/17/2009 08:23	0.0	0.0	0.0
65	06/17/2009 08:24	0.0	0.0	0.0
66	06/17/2009 08:25	0.0	0.0	0.0
67	06/17/2009 08:26	0.0	0.0	0.0
68	06/17/2009 08:27	0.0	0.0	0.0
69	06/17/2009 08:28	0.0	0.0	0.0
70	06/17/2009 08:29	0.0	0.0	0.0
71	06/17/2009 08:30	0.0	0.0	0.0
72	06/17/2009 08:31	0.0	0.0	0.0
73	06/17/2009 08:32	0.0	0.0	0.0
74	06/17/2009 08:33	0.0	0.0	0.0
75	06/17/2009 08:34	0.0	0.0	0.0
76	06/17/2009 08:35	0.0	0.0	0.0
77	06/17/2009 08:36	0.0	0.0	0.0
78	06/17/2009 08:37	0.0	0.0	0.0
79	06/17/2009 08:38	0.0	0.0	0.0
80	06/17/2009 08:39	0.0	0.0	0.0
81	06/17/2009 08:40	0.0	0.0	0.0
82	06/17/2009 08:41	0.0	0.0	0.0
83	06/17/2009 08:42	0.0	0.0	0.0
84	06/17/2009 08:43	0.0	0.0	0.0
85	06/17/2009 08:44	0.0	0.0	0.0
86	06/17/2009 08:45	0.0	0.0	0.0
87	06/17/2009 08:46	0.0	0.0	0.0
88	06/17/2009 08:47	0.0	0.0	0.0
89	06/17/2009 08:48	0.0	0.0	0.0
90	06/17/2009 08:49	0.0	0.0	0.0
91	06/17/2009 08:50	0.0	0.0	0.0
92	06/17/2009 08:51	0.0	0.0	0.0
93	06/17/2009 08:52	0.0	0.0	0.0

94	06/17/2009 08:53	0.0	0.0	0.0
95	06/17/2009 08:54	0.0	0.0	0.0
96	06/17/2009 08:55	0.0	0.0	0.0
97	06/17/2009 08:56	0.0	0.0	0.0
98	06/17/2009 08:57	0.0	0.0	0.0
99	06/17/2009 08:58	0.0	0.0	0.0
100	06/17/2009 08:59	0.0	0.0	0.0
101	06/17/2009 09:00	0.0	0.0	0.0
102	06/17/2009 09:01	0.0	0.0	0.0
103	06/17/2009 09:02	0.0	0.0	0.0
104	06/17/2009 09:03	0.0	0.0	0.0
105	06/17/2009 09:04	0.0	0.0	0.0
106	06/17/2009 09:05	0.0	0.0	0.0
107	06/17/2009 09:06	0.0	0.0	0.0
108	06/17/2009 09:07	0.0	0.0	0.0
109	06/17/2009 09:08	0.0	0.0	0.0
110	06/17/2009 09:09	0.0	0.0	0.0
111	06/17/2009 09:10	0.0	0.0	0.0
112	06/17/2009 09:11	0.0	0.0	0.0
113	06/17/2009 09:12	0.0	0.0	0.0
114	06/17/2009 09:13	0.0	0.0	0.0
115	06/17/2009 09:14	0.0	0.0	0.0
116	06/17/2009 09:15	0.0	0.0	0.0
117	06/17/2009 09:16	0.0	0.0	0.0
118	06/17/2009 09:17	0.0	0.0	0.0
119	06/17/2009 09:18	0.0	0.0	0.0
120	06/17/2009 09:19	0.0	0.0	0.0
121	06/17/2009 09:20	0.0	0.0	0.0
122	06/17/2009 09:21	0.0	0.0	0.0
123	06/17/2009 09:22	0.0	0.0	0.0
124	06/17/2009 09:23	0.0	0.0	0.0
125	06/17/2009 09:24	0.0	0.0	0.0
126	06/17/2009 09:25	0.0	0.0	0.0
127	06/17/2009 09:26	0.0	0.0	0.0
128	06/17/2009 09:27	0.0	0.0	0.0
129	06/17/2009 09:28	0.0	0.0	0.0
130	06/17/2009 09:29	0.0	0.0	0.0
131	06/17/2009 09:30	0.0	0.0	0.0
132	06/17/2009 09:31	0.0	0.0	0.0
133	06/17/2009 09:32	0.0	0.0	0.0
134	06/17/2009 09:33	0.0	0.0	0.0
135	06/17/2009 09:34	0.0	0.0	0.0
136	06/17/2009 09:35	0.0	0.0	0.0
137	06/17/2009 09:36	0.0	0.0	0.0
138	06/17/2009 09:37	0.0	0.0	0.0
139	06/17/2009 09:38	0.0	0.0	0.0
140	06/17/2009 09:39	0.0	0.0	0.0
141	06/17/2009 09:40	0.0	0.0	0.0
142	06/17/2009 09:41	0.0	0.0	0.0
143	06/17/2009 09:42	0.0	0.0	0.0
144	06/17/2009 09:43	0.0	0.0	0.0
145	06/17/2009 09:44	0.0	0.0	0.0

146	06/17/2009 09:45	0.0	0.0	0.0
147	06/17/2009 09:46	0.0	0.0	0.0
148	06/17/2009 09:47	0.0	0.0	0.0
149	06/17/2009 09:48	0.0	0.0	0.0
150	06/17/2009 09:49	0.0	0.0	0.0
151	06/17/2009 09:50	0.0	0.0	0.0
152	06/17/2009 09:51	0.0	0.0	0.0
153	06/17/2009 09:52	0.0	0.0	0.0
154	06/17/2009 09:53	0.0	0.0	0.0
155	06/17/2009 09:54	0.0	0.0	0.0
156	06/17/2009 09:55	0.0	0.0	0.0
157	06/17/2009 09:56	0.0	0.0	0.0
158	06/17/2009 09:57	0.0	0.0	0.0
159	06/17/2009 09:58	0.0	0.0	0.0
160	06/17/2009 09:59	0.0	0.0	0.0
161	06/17/2009 10:00	0.0	0.0	0.0
162	06/17/2009 10:01	0.0	0.0	0.0
163	06/17/2009 10:02	0.0	0.0	0.0
164	06/17/2009 10:03	0.0	0.0	0.0
165	06/17/2009 10:04	0.0	0.0	0.0
166	06/17/2009 10:05	0.0	0.0	0.0
167	06/17/2009 10:06	0.0	0.0	0.0
168	06/17/2009 10:07	0.0	0.0	0.0
169	06/17/2009 10:08	0.0	0.0	0.0
170	06/17/2009 10:09	0.0	0.0	0.0
171	06/17/2009 10:10	0.0	0.0	0.0
172	06/17/2009 10:11	0.0	0.0	0.0
173	06/17/2009 10:12	0.0	0.0	0.0
174	06/17/2009 10:13	0.0	0.0	0.0
175	06/17/2009 10:14	0.0	0.0	0.0
176	06/17/2009 10:15	0.0	0.0	0.0
177	06/17/2009 10:16	0.0	0.0	0.0
178	06/17/2009 10:17	0.0	0.0	0.0
179	06/17/2009 10:18	0.0	0.0	0.0
180	06/17/2009 10:19	0.0	0.0	0.0
181	06/17/2009 10:20	0.0	0.0	0.0
182	06/17/2009 10:21	0.0	0.0	0.0
183	06/17/2009 10:22	0.0	0.0	0.0
184	06/17/2009 10:23	0.0	0.0	0.0
185	06/17/2009 10:24	0.0	0.0	0.0
186	06/17/2009 10:25	0.0	0.0	0.0
187	06/17/2009 10:26	0.0	0.0	0.0
188	06/17/2009 10:27	0.0	0.0	0.0
189	06/17/2009 10:28	0.0	0.0	0.0
190	06/17/2009 10:29	0.0	0.0	0.0
191	06/17/2009 10:30	0.0	0.0	0.0
192	06/17/2009 10:31	0.0	0.0	0.0
193	06/17/2009 10:32	0.0	0.0	0.0
194	06/17/2009 10:33	0.0	0.0	0.0
195	06/17/2009 10:34	0.0	0.0	0.0
196	06/17/2009 10:35	0.0	0.0	0.0
197	06/17/2009 10:36	0.0	0.0	0.0



198	06/17/2009 10:37	0.0	0.0	0.0
199	06/17/2009 10:38	0.0	0.0	0.0
200	06/17/2009 10:39	0.0	0.0	0.0
201	06/17/2009 10:40	0.0	0.0	0.0
202	06/17/2009 10:41	0.0	0.0	0.0
203	06/17/2009 10:42	0.0	0.0	0.0
204	06/17/2009 10:43	0.0	0.0	0.0
205	06/17/2009 10:44	0.0	0.0	0.0
206	06/17/2009 10:45	0.0	0.0	0.0
207	06/17/2009 10:46	0.0	0.0	0.0
208	06/17/2009 10:47	0.0	0.0	0.0
209	06/17/2009 10:48	0.0	0.0	0.0
210	06/17/2009 10:49	0.0	0.0	0.0
211	06/17/2009 10:50	0.0	0.0	0.0
212	06/17/2009 10:51	0.0	0.0	0.0
213	06/17/2009 10:52	0.0	0.0	0.0
214	06/17/2009 10:53	0.0	0.0	0.0
215	06/17/2009 10:54	0.0	0.0	0.0
216	06/17/2009 10:55	0.0	0.0	0.0
217	06/17/2009 10:56	0.0	0.0	0.0
218	06/17/2009 10:57	0.0	0.0	0.0
219	06/17/2009 10:58	0.0	0.0	0.0
220	06/17/2009 10:59	0.0	0.0	0.0
221	06/17/2009 11:00	0.0	0.0	0.0
222	06/17/2009 11:01	0.0	0.0	0.0
223	06/17/2009 11:02	0.0	0.0	0.0
224	06/17/2009 11:03	0.0	0.0	0.0
225	06/17/2009 11:04	0.0	0.0	0.0
226	06/17/2009 11:05	0.0	0.0	0.0
227	06/17/2009 11:06	0.0	0.0	0.0
228	06/17/2009 11:07	0.0	0.0	0.0
229	06/17/2009 11:08	0.0	0.0	0.0
230	06/17/2009 11:09	0.0	0.0	0.0
231	06/17/2009 11:10	0.0	0.0	0.0
232	06/17/2009 11:11	0.0	0.0	0.0
233	06/17/2009 11:12	0.0	0.0	0.0
234	06/17/2009 11:13	0.0	0.0	0.0
235	06/17/2009 11:14	0.0	0.0	0.0
236	06/17/2009 11:15	0.0	0.0	0.0
237	06/17/2009 11:16	0.0	0.0	0.0
238	06/17/2009 11:17	0.0	0.0	0.0
239	06/17/2009 11:18	0.0	0.0	0.0
240	06/17/2009 11:19	0.0	0.0	0.0
241	06/17/2009 11:20	0.0	0.0	0.0
242	06/17/2009 11:21	0.0	0.0	0.0
243	06/17/2009 11:22	0.0	0.0	0.0
244	06/17/2009 11:23	0.0	0.0	0.0
245	06/17/2009 11:24	0.0	0.0	0.0
246	06/17/2009 11:25	0.0	0.0	0.0
247	06/17/2009 11:26	0.0	0.0	0.0
248	06/17/2009 11:27	0.0	0.0	0.0
249	06/17/2009 11:28	0.0	0.0	0.0

250	06/17/2009 11:29	0.0	0.0	0.0
251	06/17/2009 11:30	0.0	0.0	0.0
252	06/17/2009 11:31	0.0	0.0	0.0
253	06/17/2009 11:32	0.0	0.0	0.0
254	06/17/2009 11:33	0.0	0.0	0.0
255	06/17/2009 11:34	0.0	0.0	0.0
256	06/17/2009 11:35	0.0	0.0	0.0
257	06/17/2009 11:36	0.0	0.0	0.0
258	06/17/2009 11:37	0.0	0.0	0.0
259	06/17/2009 11:38	0.0	0.0	0.0
260	06/17/2009 11:39	0.0	0.0	0.0
261	06/17/2009 11:40	0.0	0.0	0.0
262	06/17/2009 11:41	0.0	0.0	0.0
263	06/17/2009 11:42	0.0	0.0	0.0
264	06/17/2009 11:43	0.0	0.0	0.0
265	06/17/2009 11:44	0.0	0.0	0.0
266	06/17/2009 11:45	0.0	0.0	0.0
267	06/17/2009 11:46	0.0	0.0	0.0
268	06/17/2009 11:47	0.0	0.0	0.0
269	06/17/2009 11:48	0.0	0.0	0.0
270	06/17/2009 11:49	0.0	0.0	0.0
271	06/17/2009 11:50	0.0	0.0	0.0
272	06/17/2009 11:51	0.0	0.0	0.0
273	06/17/2009 11:52	0.0	0.0	0.0
274	06/17/2009 11:53	0.0	0.0	0.0
275	06/17/2009 11:54	0.0	0.0	0.0
276	06/17/2009 11:55	0.0	0.0	0.0
277	06/17/2009 11:56	0.0	0.0	0.0
278	06/17/2009 11:57	0.0	0.0	0.0
279	06/17/2009 11:58	0.0	0.0	0.0
280	06/17/2009 11:59	0.0	0.0	0.0
281	06/17/2009 12:00	0.0	0.0	0.0
282	06/17/2009 12:01	0.0	0.0	0.0
283	06/17/2009 12:02	0.0	0.0	0.0
284	06/17/2009 12:03	0.0	0.0	0.0
285	06/17/2009 12:04	0.0	0.0	0.0
286	06/17/2009 12:05	0.0	0.0	0.0
287	06/17/2009 12:06	0.0	0.0	0.0
288	06/17/2009 12:07	0.0	0.0	0.0
289	06/17/2009 12:08	0.0	0.0	0.0
290	06/17/2009 12:09	0.0	0.0	0.0
291	06/17/2009 12:10	0.0	0.0	0.0
292	06/17/2009 12:11	0.0	0.0	0.0
293	06/17/2009 12:12	0.0	0.0	0.0
294	06/17/2009 12:13	0.0	0.0	0.0
295	06/17/2009 12:14	0.0	0.0	0.0
296	06/17/2009 12:15	0.0	0.0	0.0
297	06/17/2009 12:16	0.0	0.0	0.0
298	06/17/2009 12:17	0.0	0.0	0.0
299	06/17/2009 12:18	0.0	0.0	0.0
300	06/17/2009 12:19	0.0	0.0	0.0
301	06/17/2009 12:20	0.0	0.0	0.0

302	06/17/2009 12:21	0.0	0.0	0.0
303	06/17/2009 12:22	0.0	0.0	0.0
304	06/17/2009 12:23	0.0	0.0	0.0
305	06/17/2009 12:24	0.0	0.0	0.0
306	06/17/2009 12:25	0.0	0.0	0.0
307	06/17/2009 12:26	0.0	0.0	0.0
308	06/17/2009 12:27	0.0	0.0	0.0
309	06/17/2009 12:28	0.0	0.0	0.0
310	06/17/2009 12:29	0.0	0.0	0.0
311	06/17/2009 12:30	0.0	0.0	0.0
312	06/17/2009 12:31	0.0	0.0	0.0
313	06/17/2009 12:32	0.0	0.0	0.0
314	06/17/2009 12:33	0.0	0.0	0.0
315	06/17/2009 12:34	0.0	0.0	0.0
316	06/17/2009 12:35	0.0	0.0	0.0
317	06/17/2009 12:36	0.0	0.0	0.0
318	06/17/2009 12:37	0.0	0.0	0.0
319	06/17/2009 12:38	0.0	0.0	0.0
320	06/17/2009 12:39	0.0	0.0	0.0
321	06/17/2009 12:40	0.0	0.0	0.0
322	06/17/2009 12:41	0.0	0.0	0.0
323	06/17/2009 12:42	0.0	0.0	0.0
324	06/17/2009 12:43	0.0	0.0	0.0
325	06/17/2009 12:44	0.0	0.0	0.0
326	06/17/2009 12:45	0.0	0.0	0.0
327	06/17/2009 12:46	0.0	0.0	0.0
328	06/17/2009 12:47	0.0	0.0	0.0
329	06/17/2009 12:48	0.0	0.0	0.0
330	06/17/2009 12:49	0.0	0.0	0.0
331	06/17/2009 12:50	0.0	0.0	0.0
332	06/17/2009 12:51	0.0	0.0	0.0
333	06/17/2009 12:52	0.0	0.0	0.0
334	06/17/2009 12:53	0.0	0.0	0.0
335	06/17/2009 12:54	0.0	0.0	0.0
336	06/17/2009 12:55	0.0	0.0	0.0
337	06/17/2009 12:56	0.0	0.0	0.0
338	06/17/2009 12:57	0.0	0.0	0.0
339	06/17/2009 12:58	0.0	0.0	0.0
340	06/17/2009 12:59	0.0	0.0	0.0
341	06/17/2009 13:00	0.0	0.0	0.0
342	06/17/2009 13:01	0.0	0.0	0.0
343	06/17/2009 13:02	0.0	0.0	0.0
344	06/17/2009 13:03	0.0	0.0	0.0
345	06/17/2009 13:04	0.0	0.0	0.0
346	06/17/2009 13:05	0.0	0.0	0.0
347	06/17/2009 13:06	0.0	0.0	0.0
348	06/17/2009 13:07	0.0	0.0	0.0
349	06/17/2009 13:08	0.0	0.0	0.0
350	06/17/2009 13:09	0.0	0.0	0.0
351	06/17/2009 13:10	0.0	0.0	0.0
352	06/17/2009 13:11	0.0	0.0	0.0
353	06/17/2009 13:12	0.0	0.0	0.0

354	06/17/2009 13:13	0.0	0.0	0.0
355	06/17/2009 13:14	0.0	0.0	0.0
356	06/17/2009 13:15	0.0	0.0	0.0
357	06/17/2009 13:16	0.0	0.0	0.0
358	06/17/2009 13:17	0.0	0.0	0.0
359	06/17/2009 13:18	0.0	0.0	0.0
360	06/17/2009 13:19	0.0	0.0	0.0
361	06/17/2009 13:20	0.0	0.0	0.0
362	06/17/2009 13:21	0.0	0.0	0.0
363	06/17/2009 13:22	0.0	0.0	0.0
364	06/17/2009 13:23	0.0	0.0	0.0
365	06/17/2009 13:24	0.0	0.0	0.0
366	06/17/2009 13:25	0.0	0.0	0.0
367	06/17/2009 13:26	0.0	0.0	0.0
368	06/17/2009 13:27	0.0	0.0	0.0
369	06/17/2009 13:28	0.0	0.0	0.0
370	06/17/2009 13:29	0.0	0.0	0.0
371	06/17/2009 13:30	0.0	0.0	0.0
372	06/17/2009 13:31	0.0	0.0	0.0
373	06/17/2009 13:32	0.0	0.0	0.0
374	06/17/2009 13:33	0.0	0.0	0.0
375	06/17/2009 13:34	0.0	0.0	0.0
376	06/17/2009 13:35	0.0	0.0	0.0
377	06/17/2009 13:36	0.0	0.0	0.0
378	06/17/2009 13:37	0.0	0.0	0.0
379	06/17/2009 13:38	0.0	0.0	0.0
380	06/17/2009 13:39	0.0	0.0	0.0
381	06/17/2009 13:40	0.0	0.0	0.0
382	06/17/2009 13:41	0.0	0.0	0.0
383	06/17/2009 13:42	0.0	0.0	0.0
384	06/17/2009 13:43	0.0	0.0	0.0
385	06/17/2009 13:44	0.0	0.0	0.0
386	06/17/2009 13:45	0.0	0.0	0.0
387	06/17/2009 13:46	0.0	0.0	0.0
388	06/17/2009 13:47	0.0	0.0	0.0
389	06/17/2009 13:48	0.0	0.0	0.0
390	06/17/2009 13:49	0.0	0.0	0.0
391	06/17/2009 13:50	0.0	0.0	0.0
392	06/17/2009 13:51	0.0	0.0	0.0
393	06/17/2009 13:52	0.0	0.0	0.0
394	06/17/2009 13:53	0.0	0.0	0.0
395	06/17/2009 13:54	0.0	0.0	0.0
396	06/17/2009 13:55	0.0	0.0	0.0
397	06/17/2009 13:56	0.0	0.0	0.0
398	06/17/2009 13:57	0.0	0.0	0.0
399	06/17/2009 13:58	0.0	0.0	0.0
400	06/17/2009 13:59	0.0	0.0	0.0
401	06/17/2009 14:00	0.0	0.0	0.0
402	06/17/2009 14:01	0.0	0.0	0.0
403	06/17/2009 14:02	0.0	0.0	0.0
404	06/17/2009 14:03	0.0	0.0	0.0
405	06/17/2009 14:04	0.0	0.0	0.0

406	06/17/2009 14:05	0.0	0.0	0.0
407	06/17/2009 14:06	0.0	0.0	0.0
408	06/17/2009 14:07	0.0	0.0	0.0
409	06/17/2009 14:08	0.0	0.0	0.0
410	06/17/2009 14:09	0.0	0.0	0.0
411	06/17/2009 14:10	0.0	0.0	0.0
412	06/17/2009 14:11	0.0	0.0	0.0
413	06/17/2009 14:12	0.0	0.0	0.0
414	06/17/2009 14:13	0.0	0.0	0.0
415	06/17/2009 14:14	0.0	0.0	0.0
416	06/17/2009 14:15	0.0	0.0	0.0
417	06/17/2009 14:16	0.0	0.0	0.0
418	06/17/2009 14:17	0.0	0.0	0.0
419	06/17/2009 14:18	0.0	0.0	0.0
420	06/17/2009 14:19	0.0	0.0	0.0
421	06/17/2009 14:20	0.0	0.0	0.0
422	06/17/2009 14:21	0.0	0.0	0.0
423	06/17/2009 14:22	0.0	0.0	0.0
424	06/17/2009 14:23	0.0	0.0	0.0
425	06/17/2009 14:24	0.0	0.0	0.0
426	06/17/2009 14:25	0.0	0.0	0.0
427	06/17/2009 14:26	0.0	0.0	0.0
428	06/17/2009 14:27	0.0	0.0	0.0
429	06/17/2009 14:28	0.0	0.0	0.0
430	06/17/2009 14:29	0.0	0.0	0.0
431	06/17/2009 14:30	0.0	0.0	0.0
432	06/17/2009 14:31	0.0	0.0	0.0
433	06/17/2009 14:32	0.0	0.0	0.0
434	06/17/2009 14:33	0.0	0.0	0.0
435	06/17/2009 14:34	0.0	0.0	0.0
436	06/17/2009 14:35	0.0	0.0	0.0
437	06/17/2009 14:36	0.0	0.0	0.0
438	06/17/2009 14:37	0.0	0.0	0.0
439	06/17/2009 14:38	0.0	0.0	0.0
440	06/17/2009 14:39	0.0	0.0	0.0
441	06/17/2009 14:40	0.0	0.0	0.0
442	06/17/2009 14:41	0.0	0.0	0.0
443	06/17/2009 14:42	0.0	0.0	0.0
444	06/17/2009 14:43	0.0	0.0	0.0
445	06/17/2009 14:44	0.0	0.0	0.0
446	06/17/2009 14:45	0.0	0.0	0.0
447	06/17/2009 14:46	0.0	0.0	0.0
448	06/17/2009 14:47	0.0	0.0	0.0
449	06/17/2009 14:48	0.0	0.0	0.0
450	06/17/2009 14:49	0.0	0.0	0.0
451	06/17/2009 14:50	0.0	0.0	0.0
452	06/17/2009 14:51	0.0	0.0	0.0
453	06/17/2009 14:52	0.0	0.0	0.0
454	06/17/2009 14:53	0.0	0.0	0.0
455	06/17/2009 14:54	0.0	0.0	0.0
456	06/17/2009 14:55	0.0	0.0	0.0
457	06/17/2009 14:56	0.0	0.0	0.0

458	06/17/2009 14:57	0.0	0.0	0.0
459	06/17/2009 14:58	0.0	0.0	0.0
460	06/17/2009 14:59	0.0	0.0	0.0
461	06/17/2009 15:00	0.0	0.0	0.0
462	06/17/2009 15:01	0.0	0.0	0.0
463	06/17/2009 15:02	0.0	0.0	0.0
464	06/17/2009 15:03	0.0	0.0	0.0
465	06/17/2009 15:04	0.0	0.0	0.0
466	06/17/2009 15:05	0.0	0.0	0.0
467	06/17/2009 15:06	0.0	0.0	0.0
468	06/17/2009 15:07	0.0	0.0	0.0
469	06/17/2009 15:08	0.0	0.0	0.0
470	06/17/2009 15:09	0.0	0.0	0.0
471	06/17/2009 15:10	0.0	0.0	0.0
472	06/17/2009 15:11	0.0	0.0	0.0
473	06/17/2009 15:12	0.0	0.0	0.0
474	06/17/2009 15:13	0.0	0.0	0.0
475	06/17/2009 15:14	0.0	0.0	0.0
476	06/17/2009 15:15	0.0	0.0	0.0
477	06/17/2009 15:16	0.0	0.0	0.0
478	06/17/2009 15:17	0.0	0.0	0.0
479	06/17/2009 15:18	0.0	0.0	0.0
480	06/17/2009 15:19	0.0	0.0	0.0
481	06/17/2009 15:20	0.0	0.0	0.0
482	06/17/2009 15:21	0.0	0.0	0.0
483	06/17/2009 15:22	0.0	0.0	0.0
484	06/17/2009 15:23	0.0	0.0	0.0
485	06/17/2009 15:24	0.0	0.0	0.0
486	06/17/2009 15:25	0.0	0.0	0.0
487	06/17/2009 15:26	0.0	0.0	0.0
488	06/17/2009 15:27	0.0	0.0	0.0
489	06/17/2009 15:28	0.0	0.0	0.0
490	06/17/2009 15:29	0.0	0.0	0.0
491	06/17/2009 15:30	0.0	0.0	0.0
492	06/17/2009 15:31	0.0	0.0	0.0
493	06/17/2009 15:32	0.0	0.0	0.0
494	06/17/2009 15:33	0.0	0.0	0.0
495	06/17/2009 15:34	0.0	0.0	0.0
496	06/17/2009 15:35	0.0	0.0	0.0
497	06/17/2009 15:36	0.0	0.0	0.0
498	06/17/2009 15:37	0.0	0.0	0.0
499	06/17/2009 15:38	0.0	0.0	0.0
500	06/17/2009 15:39	0.0	0.0	0.0
501	06/17/2009 15:40	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 535 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 06/17/2009 06:46      0.0         0.0          0.0
2 06/17/2009 06:47      0.0         0.0          0.0
3 06/17/2009 06:48      0.0         0.0          0.0
4 06/17/2009 06:49      0.0         0.0          0.0
5 06/17/2009 06:50      0.0         0.0          0.0
6 06/17/2009 06:51      0.0         0.0          0.0
7 06/17/2009 06:52      0.0         0.0          0.0
8 06/17/2009 06:53      0.0         0.0          0.0
9 06/17/2009 06:54      0.0         0.0          0.0
10 06/17/2009 06:55      0.0         0.0          0.0
11 06/17/2009 06:56      0.0         0.0          0.0
12 06/17/2009 06:57      0.0         0.0          0.0
13 06/17/2009 06:58      0.0         0.0          0.0
14 06/17/2009 06:59      0.0         0.0          0.0
15 06/17/2009 07:00      0.0         0.0          0.0
16 06/17/2009 07:01      0.0         0.0          0.0
17 06/17/2009 07:02      0.0         0.0          0.0
18 06/17/2009 07:03      0.0         0.0          0.0
19 06/17/2009 07:04      0.0         0.0          0.0
20 06/17/2009 07:05      0.0         0.0          0.0
21 06/17/2009 07:06      0.0         0.0          0.0
22 06/17/2009 07:07      0.0         0.0          0.0
23 06/17/2009 07:08      0.0         0.0          0.0
24 06/17/2009 07:09      0.0         0.0          0.0
25 06/17/2009 07:10      0.0         0.0          0.0
26 06/17/2009 07:11      0.0         0.0          0.0
27 06/17/2009 07:12      0.0         0.0          0.0
28 06/17/2009 07:13      0.0         0.0          0.0
29 06/17/2009 07:14      0.0         0.0          0.0
30 06/17/2009 07:15      0.0         0.0          0.0
31 06/17/2009 07:16      0.0         0.0          0.0
32 06/17/2009 07:17      0.0         0.0          0.0
33 06/17/2009 07:18      0.0         0.0          0.0
34 06/17/2009 07:19      0.0         0.0          0.0
35 06/17/2009 07:20      0.0         0.0          0.0
36 06/17/2009 07:21      0.0         0.0          0.0
37 06/17/2009 07:22      0.0         0.0          0.0
38 06/17/2009 07:23      0.0         0.0          0.0
39 06/17/2009 07:24      0.0         0.0          0.0
40 06/17/2009 07:25      0.0         0.0          0.0
41 06/17/2009 07:26      0.0         0.0          0.0
```

42	06/17/2009 07:27	0.0	0.0	0.0
43	06/17/2009 07:28	0.0	0.0	0.0
44	06/17/2009 07:29	0.0	0.0	0.0
45	06/17/2009 07:30	0.0	0.0	0.0
46	06/17/2009 07:31	0.0	0.0	0.0
47	06/17/2009 07:32	0.0	0.0	0.0
48	06/17/2009 07:33	0.0	0.0	0.0
49	06/17/2009 07:34	0.0	0.0	0.0
50	06/17/2009 07:35	0.0	0.0	0.0
51	06/17/2009 07:36	0.0	0.0	0.0
52	06/17/2009 07:37	0.0	0.0	0.0
53	06/17/2009 07:38	0.0	0.0	0.0
54	06/17/2009 07:39	0.0	0.0	0.0
55	06/17/2009 07:40	0.0	0.0	0.0
56	06/17/2009 07:41	0.0	0.0	0.0
57	06/17/2009 07:42	0.0	0.0	0.0
58	06/17/2009 07:43	0.0	0.0	0.0
59	06/17/2009 07:44	0.0	0.0	0.0
60	06/17/2009 07:45	0.0	0.0	0.0
61	06/17/2009 07:46	0.0	0.0	0.0
62	06/17/2009 07:47	0.0	0.0	0.0
63	06/17/2009 07:48	0.0	0.0	0.0
64	06/17/2009 07:49	0.0	0.0	0.0
65	06/17/2009 07:50	0.0	0.0	0.0
66	06/17/2009 07:51	0.0	0.0	0.0
67	06/17/2009 07:52	0.0	0.0	0.0
68	06/17/2009 07:53	0.0	0.0	0.0
69	06/17/2009 07:54	0.0	0.0	0.0
70	06/17/2009 07:55	0.0	0.0	0.0
71	06/17/2009 07:56	0.0	0.0	0.0
72	06/17/2009 07:57	0.0	0.0	0.0
73	06/17/2009 07:58	0.0	0.0	0.0
74	06/17/2009 07:59	0.0	0.0	0.0
75	06/17/2009 08:00	0.0	0.0	0.0
76	06/17/2009 08:01	0.0	0.0	0.0
77	06/17/2009 08:02	0.0	0.0	0.0
78	06/17/2009 08:03	0.0	0.0	0.0
79	06/17/2009 08:04	0.0	0.0	0.0
80	06/17/2009 08:05	0.0	0.0	0.0
81	06/17/2009 08:06	0.0	0.0	0.1
82	06/17/2009 08:07	0.0	0.0	0.1
83	06/17/2009 08:08	0.0	0.0	0.0
84	06/17/2009 08:09	0.0	0.0	0.1
85	06/17/2009 08:10	0.0	0.0	0.1
86	06/17/2009 08:11	0.0	0.0	0.1
87	06/17/2009 08:12	0.0	0.0	0.1
88	06/17/2009 08:13	0.0	0.0	0.1
89	06/17/2009 08:14	0.0	0.0	0.1
90	06/17/2009 08:15	0.0	0.0	0.1
91	06/17/2009 08:16	0.1	0.1	0.1
92	06/17/2009 08:17	0.1	0.1	0.1
93	06/17/2009 08:18	0.1	0.1	0.1



94	06/17/2009 08:19	0.1	0.1	0.1
95	06/17/2009 08:20	0.1	0.1	0.1
96	06/17/2009 08:21	0.1	0.1	0.1
97	06/17/2009 08:22	0.1	0.1	0.1
98	06/17/2009 08:23	0.1	0.1	0.1
99	06/17/2009 08:24	0.1	0.1	0.1
100	06/17/2009 08:25	0.1	0.1	0.1
101	06/17/2009 08:26	0.1	0.1	0.1
102	06/17/2009 08:27	0.1	0.1	0.1
103	06/17/2009 08:28	0.1	0.1	0.1
104	06/17/2009 08:29	0.1	0.1	0.1
105	06/17/2009 08:30	0.1	0.1	0.1
106	06/17/2009 08:31	0.1	0.1	0.1
107	06/17/2009 08:32	0.1	0.1	0.1
108	06/17/2009 08:33	0.1	0.1	0.1
109	06/17/2009 08:34	0.1	0.1	0.1
110	06/17/2009 08:35	0.1	0.1	0.1
111	06/17/2009 08:36	0.1	0.1	0.1
112	06/17/2009 08:37	0.1	0.1	0.1
113	06/17/2009 08:38	0.1	0.1	0.1
114	06/17/2009 08:39	0.1	0.1	0.1
115	06/17/2009 08:40	0.1	0.1	0.1
116	06/17/2009 08:41	0.1	0.1	0.1
117	06/17/2009 08:42	0.1	0.1	0.1
118	06/17/2009 08:43	0.1	0.1	0.1
119	06/17/2009 08:44	0.1	0.1	0.1
120	06/17/2009 08:45	0.1	0.1	0.1
121	06/17/2009 08:46	0.1	0.1	0.1
122	06/17/2009 08:47	0.1	0.1	0.1
123	06/17/2009 08:48	0.1	0.1	0.1
124	06/17/2009 08:49	0.1	0.1	0.1
125	06/17/2009 08:50	0.1	0.1	0.1
126	06/17/2009 08:51	0.1	0.1	0.1
127	06/17/2009 08:52	0.1	0.1	0.1
128	06/17/2009 08:53	0.1	0.1	0.1
129	06/17/2009 08:54	0.1	0.1	0.1
130	06/17/2009 08:55	0.1	0.1	0.1
131	06/17/2009 08:56	0.1	0.1	0.1
132	06/17/2009 08:57	0.1	0.1	0.1
133	06/17/2009 08:58	0.1	0.1	0.1
134	06/17/2009 08:59	0.1	0.1	0.1
135	06/17/2009 09:00	0.1	0.1	0.1
136	06/17/2009 09:01	0.1	0.1	0.1
137	06/17/2009 09:02	0.1	0.1	0.1
138	06/17/2009 09:03	0.1	0.1	0.1
139	06/17/2009 09:04	0.1	0.1	0.1
140	06/17/2009 09:05	0.1	0.1	0.1
141	06/17/2009 09:06	0.1	0.1	0.1
142	06/17/2009 09:07	0.1	0.1	0.1
143	06/17/2009 09:08	0.1	0.1	0.1
144	06/17/2009 09:09	0.1	0.1	0.1
145	06/17/2009 09:10	0.1	0.1	0.1

146	06/17/2009 09:11	0.1	0.1	0.1
147	06/17/2009 09:12	0.1	0.1	0.1
148	06/17/2009 09:13	0.1	0.1	0.1
149	06/17/2009 09:14	0.1	0.1	0.1
150	06/17/2009 09:15	0.1	0.1	0.1
151	06/17/2009 09:16	0.1	0.1	0.1
152	06/17/2009 09:17	0.1	0.1	0.1
153	06/17/2009 09:18	0.1	0.1	0.1
154	06/17/2009 09:19	0.1	0.1	0.1
155	06/17/2009 09:20	0.1	0.1	0.1
156	06/17/2009 09:21	0.1	0.1	0.1
157	06/17/2009 09:22	0.1	0.1	0.1
158	06/17/2009 09:23	0.1	0.1	0.1
159	06/17/2009 09:24	0.1	0.1	0.1
160	06/17/2009 09:25	0.1	0.1	0.1
161	06/17/2009 09:26	0.1	0.1	0.1
162	06/17/2009 09:27	0.1	0.1	0.2
163	06/17/2009 09:28	0.1	0.1	0.1
164	06/17/2009 09:29	0.1	0.1	0.1
165	06/17/2009 09:30	0.1	0.1	0.1
166	06/17/2009 09:31	0.1	0.1	0.1
167	06/17/2009 09:32	0.1	0.1	0.1
168	06/17/2009 09:33	0.1	0.1	0.1
169	06/17/2009 09:34	0.1	0.1	0.1
170	06/17/2009 09:35	0.1	0.1	0.1
171	06/17/2009 09:36	0.1	0.1	0.1
172	06/17/2009 09:37	0.1	0.1	0.1
173	06/17/2009 09:38	0.1	0.1	0.2
174	06/17/2009 09:39	0.1	0.1	0.2
175	06/17/2009 09:40	0.1	0.1	0.2
176	06/17/2009 09:41	0.1	0.1	0.2
177	06/17/2009 09:42	0.1	0.1	0.2
178	06/17/2009 09:43	0.1	0.1	0.2
179	06/17/2009 09:44	0.1	0.1	0.2
180	06/17/2009 09:45	0.1	0.1	0.1
181	06/17/2009 09:46	0.1	0.1	0.1
182	06/17/2009 09:47	0.1	0.1	0.1
183	06/17/2009 09:48	0.1	0.1	0.2
184	06/17/2009 09:49	0.1	0.1	0.2
185	06/17/2009 09:50	0.1	0.1	0.2
186	06/17/2009 09:51	0.1	0.1	0.1
187	06/17/2009 09:52	0.1	0.1	0.1
188	06/17/2009 09:53	0.1	0.1	0.2
189	06/17/2009 09:54	0.1	0.1	0.2
190	06/17/2009 09:55	0.1	0.1	0.2
191	06/17/2009 09:56	0.1	0.1	0.1
192	06/17/2009 09:57	0.1	0.1	0.1
193	06/17/2009 09:58	0.1	0.1	0.1
194	06/17/2009 09:59	0.1	0.1	0.2
195	06/17/2009 10:00	0.1	0.1	0.2
196	06/17/2009 10:01	0.1	0.1	0.2
197	06/17/2009 10:02	0.1	0.1	0.2

198	06/17/2009 10:03	0.1	0.1	0.1
199	06/17/2009 10:04	0.1	0.1	0.2
200	06/17/2009 10:05	0.1	0.1	0.2
201	06/17/2009 10:06	0.1	0.1	0.2
202	06/17/2009 10:07	0.1	0.1	0.2
203	06/17/2009 10:08	0.1	0.1	0.2
204	06/17/2009 10:09	0.1	0.1	0.2
205	06/17/2009 10:10	0.1	0.1	0.2
206	06/17/2009 10:11	0.1	0.1	0.2
207	06/17/2009 10:12	0.1	0.1	0.2
208	06/17/2009 10:13	0.1	0.1	0.2
209	06/17/2009 10:14	0.1	0.1	0.2
210	06/17/2009 10:15	0.1	0.1	0.2
211	06/17/2009 10:16	0.1	0.1	0.2
212	06/17/2009 10:17	0.1	0.1	0.2
213	06/17/2009 10:18	0.1	0.1	0.2
214	06/17/2009 10:19	0.1	0.1	0.2
215	06/17/2009 10:20	0.1	0.1	0.2
216	06/17/2009 10:21	0.1	0.1	0.2
217	06/17/2009 10:22	0.1	0.1	0.2
218	06/17/2009 10:23	0.2	0.2	0.2
219	06/17/2009 10:24	0.1	0.1	0.2
220	06/17/2009 10:25	0.1	0.1	0.2
221	06/17/2009 10:26	0.2	0.2	0.2
222	06/17/2009 10:27	0.1	0.1	0.2
223	06/17/2009 10:28	0.1	0.1	0.2
224	06/17/2009 10:29	0.1	0.1	0.2
225	06/17/2009 10:30	0.1	0.1	0.2
226	06/17/2009 10:31	0.2	0.2	0.2
227	06/17/2009 10:32	0.2	0.2	0.2
228	06/17/2009 10:33	0.2	0.2	0.2
229	06/17/2009 10:34	0.1	0.1	0.2
230	06/17/2009 10:35	0.1	0.1	0.2
231	06/17/2009 10:36	0.2	0.2	0.2
232	06/17/2009 10:37	0.2	0.2	0.2
233	06/17/2009 10:38	0.1	0.1	0.2
234	06/17/2009 10:39	0.2	0.2	0.2
235	06/17/2009 10:40	0.1	0.1	0.2
236	06/17/2009 10:41	0.1	0.1	0.2
237	06/17/2009 10:42	0.1	0.1	0.2
238	06/17/2009 10:43	0.1	0.1	0.2
239	06/17/2009 10:44	0.1	0.1	0.2
240	06/17/2009 10:45	0.1	0.1	0.2
241	06/17/2009 10:46	0.2	0.2	0.2
242	06/17/2009 10:47	0.2	0.2	0.2
243	06/17/2009 10:48	0.2	0.2	0.2
244	06/17/2009 10:49	0.2	0.2	0.2
245	06/17/2009 10:50	0.2	0.2	0.2
246	06/17/2009 10:51	0.2	0.2	0.2
247	06/17/2009 10:52	0.1	0.1	0.2
248	06/17/2009 10:53	0.2	0.2	0.2
249	06/17/2009 10:54	0.1	0.1	0.2

250	06/17/2009 10:55	0.2	0.2	0.2
251	06/17/2009 10:56	0.2	0.2	0.2
252	06/17/2009 10:57	0.2	0.2	0.2
253	06/17/2009 10:58	0.2	0.2	0.2
254	06/17/2009 10:59	0.2	0.2	0.2
255	06/17/2009 11:00	0.2	0.2	0.2
256	06/17/2009 11:01	0.2	0.2	0.2
257	06/17/2009 11:02	0.2	0.2	0.2
258	06/17/2009 11:03	0.2	0.2	0.2
259	06/17/2009 11:04	0.2	0.2	0.2
260	06/17/2009 11:05	0.2	0.2	0.2
261	06/17/2009 11:06	0.2	0.2	0.2
262	06/17/2009 11:07	0.2	0.2	0.2
263	06/17/2009 11:08	0.2	0.2	0.2
264	06/17/2009 11:09	0.2	0.2	0.2
265	06/17/2009 11:10	0.2	0.2	0.2
266	06/17/2009 11:11	0.2	0.2	0.2
267	06/17/2009 11:12	0.2	0.2	0.2
268	06/17/2009 11:13	0.2	0.2	0.2
269	06/17/2009 11:14	0.2	0.2	0.2
270	06/17/2009 11:15	0.1	0.1	0.2
271	06/17/2009 11:16	0.1	0.1	0.2
272	06/17/2009 11:17	0.1	0.1	0.2
273	06/17/2009 11:18	0.1	0.1	0.2
274	06/17/2009 11:19	0.1	0.1	0.2
275	06/17/2009 11:20	0.2	0.2	0.2
276	06/17/2009 11:21	0.1	0.1	0.2
277	06/17/2009 11:22	0.2	0.2	0.2
278	06/17/2009 11:23	0.2	0.2	0.2
279	06/17/2009 11:24	0.2	0.2	0.2
280	06/17/2009 11:25	0.2	0.2	0.2
281	06/17/2009 11:26	0.2	0.2	0.2
282	06/17/2009 11:27	0.2	0.2	0.2
283	06/17/2009 11:28	0.2	0.2	0.2
284	06/17/2009 11:29	0.1	0.1	0.2
285	06/17/2009 11:30	0.1	0.1	0.2
286	06/17/2009 11:31	0.1	0.1	0.2
287	06/17/2009 11:32	0.2	0.2	0.2
288	06/17/2009 11:33	0.1	0.1	0.2
289	06/17/2009 11:34	0.1	0.1	0.2
290	06/17/2009 11:35	0.2	0.2	0.2
291	06/17/2009 11:36	0.1	0.1	0.2
292	06/17/2009 11:37	0.1	0.1	0.2
293	06/17/2009 11:38	0.1	0.1	0.2
294	06/17/2009 11:39	0.2	0.2	0.2
295	06/17/2009 11:40	0.2	0.2	0.2
296	06/17/2009 11:41	0.1	0.1	0.2
297	06/17/2009 11:42	0.1	0.1	0.2
298	06/17/2009 11:43	0.1	0.1	0.2
299	06/17/2009 11:44	0.1	0.1	0.2
300	06/17/2009 11:45	0.2	0.2	0.2
301	06/17/2009 11:46	0.1	0.1	0.2

302	06/17/2009 11:47	0.1	0.1	0.2
303	06/17/2009 11:48	0.2	0.2	0.2
304	06/17/2009 11:49	0.2	0.2	0.2
305	06/17/2009 11:50	0.2	0.2	0.2
306	06/17/2009 11:51	0.2	0.2	0.2
307	06/17/2009 11:52	0.2	0.2	0.2
308	06/17/2009 11:53	0.2	0.2	0.2
309	06/17/2009 11:54	0.1	0.1	0.2
310	06/17/2009 11:55	0.1	0.1	0.2
311	06/17/2009 11:56	0.2	0.2	0.2
312	06/17/2009 11:57	0.1	0.1	0.2
313	06/17/2009 11:58	0.1	0.1	0.2
314	06/17/2009 11:59	0.1	0.1	0.2
315	06/17/2009 12:00	0.1	0.1	0.2
316	06/17/2009 12:01	0.1	0.1	0.2
317	06/17/2009 12:02	0.2	0.2	0.2
318	06/17/2009 12:03	0.1	0.1	0.2
319	06/17/2009 12:04	0.2	0.2	0.2
320	06/17/2009 12:05	0.2	0.2	0.2
321	06/17/2009 12:06	0.2	0.2	0.2
322	06/17/2009 12:07	0.2	0.2	0.2
323	06/17/2009 12:08	0.2	0.2	0.2
324	06/17/2009 12:09	0.2	0.2	0.2
325	06/17/2009 12:10	0.2	0.2	0.2
326	06/17/2009 12:11	0.2	0.2	0.2
327	06/17/2009 12:12	0.2	0.2	0.2
328	06/17/2009 12:13	0.2	0.2	0.2
329	06/17/2009 12:14	0.2	0.2	0.2
330	06/17/2009 12:15	0.2	0.2	0.2
331	06/17/2009 12:16	0.2	0.2	0.2
332	06/17/2009 12:17	0.2	0.2	0.2
333	06/17/2009 12:18	0.2	0.2	0.2
334	06/17/2009 12:19	0.2	0.2	0.2
335	06/17/2009 12:20	0.2	0.2	0.2
336	06/17/2009 12:21	0.2	0.2	0.2
337	06/17/2009 12:22	0.2	0.2	0.2
338	06/17/2009 12:23	0.2	0.2	0.2
339	06/17/2009 12:24	0.2	0.2	0.2
340	06/17/2009 12:25	0.2	0.2	0.2
341	06/17/2009 12:26	0.2	0.2	0.2
342	06/17/2009 12:27	0.2	0.2	0.2
343	06/17/2009 12:28	0.2	0.2	0.2
344	06/17/2009 12:29	0.2	0.2	0.2
345	06/17/2009 12:30	0.2	0.2	0.2
346	06/17/2009 12:31	0.2	0.2	0.2
347	06/17/2009 12:32	0.2	0.2	0.2
348	06/17/2009 12:33	0.2	0.2	0.2
349	06/17/2009 12:34	0.2	0.2	0.2
350	06/17/2009 12:35	0.2	0.2	0.2
351	06/17/2009 12:36	0.2	0.2	0.2
352	06/17/2009 12:37	0.2	0.2	0.2
353	06/17/2009 12:38	0.2	0.2	0.2

354	06/17/2009 12:39	0.2	0.2	0.2
355	06/17/2009 12:40	0.2	0.2	0.2
356	06/17/2009 12:41	0.1	0.1	0.2
357	06/17/2009 12:42	0.1	0.1	0.2
358	06/17/2009 12:43	0.2	0.2	0.2
359	06/17/2009 12:44	0.2	0.2	0.2
360	06/17/2009 12:45	0.2	0.2	0.2
361	06/17/2009 12:46	0.2	0.2	0.2
362	06/17/2009 12:47	0.2	0.2	0.2
363	06/17/2009 12:48	0.2	0.2	0.2
364	06/17/2009 12:49	0.2	0.2	0.2
365	06/17/2009 12:50	0.2	0.2	0.2
366	06/17/2009 12:51	0.2	0.2	0.2
367	06/17/2009 12:52	0.2	0.2	0.2
368	06/17/2009 12:53	0.2	0.2	0.2
369	06/17/2009 12:54	0.2	0.2	0.2
370	06/17/2009 12:55	0.2	0.2	0.2
371	06/17/2009 12:56	0.2	0.2	0.2
372	06/17/2009 12:57	0.2	0.2	0.2
373	06/17/2009 12:58	0.2	0.2	0.2
374	06/17/2009 12:59	0.2	0.2	0.2
375	06/17/2009 13:00	0.2	0.2	0.2
376	06/17/2009 13:01	0.2	0.2	0.2
377	06/17/2009 13:02	0.2	0.2	0.2
378	06/17/2009 13:03	0.2	0.2	0.2
379	06/17/2009 13:04	0.2	0.2	0.2
380	06/17/2009 13:05	0.2	0.2	0.2
381	06/17/2009 13:06	0.2	0.2	0.2
382	06/17/2009 13:07	0.2	0.2	0.2
383	06/17/2009 13:08	0.2	0.2	0.2
384	06/17/2009 13:09	0.2	0.2	0.2
385	06/17/2009 13:10	0.2	0.2	0.2
386	06/17/2009 13:11	0.2	0.2	0.2
387	06/17/2009 13:12	0.2	0.2	0.2
388	06/17/2009 13:13	0.2	0.2	0.2
389	06/17/2009 13:14	0.2	0.2	0.2
390	06/17/2009 13:15	0.2	0.2	0.2
391	06/17/2009 13:16	0.2	0.2	0.2
392	06/17/2009 13:17	0.2	0.2	0.2
393	06/17/2009 13:18	0.2	0.2	0.2
394	06/17/2009 13:19	0.2	0.2	0.2
395	06/17/2009 13:20	0.2	0.2	0.2
396	06/17/2009 13:21	0.2	0.2	0.2
397	06/17/2009 13:22	0.2	0.2	0.2
398	06/17/2009 13:23	0.2	0.2	0.2
399	06/17/2009 13:24	0.2	0.2	0.2
400	06/17/2009 13:25	0.2	0.2	0.2
401	06/17/2009 13:26	0.2	0.2	0.2
402	06/17/2009 13:27	0.2	0.2	0.2
403	06/17/2009 13:28	0.2	0.2	0.2
404	06/17/2009 13:29	0.2	0.2	0.2
405	06/17/2009 13:30	0.2	0.2	0.2

406	06/17/2009 13:31	0.2	0.2	0.2
407	06/17/2009 13:32	0.2	0.2	0.2
408	06/17/2009 13:33	0.2	0.2	0.2
409	06/17/2009 13:34	0.2	0.2	0.2
410	06/17/2009 13:35	0.2	0.2	0.2
411	06/17/2009 13:36	0.2	0.2	0.2
412	06/17/2009 13:37	0.2	0.2	0.2
413	06/17/2009 13:38	0.2	0.2	0.2
414	06/17/2009 13:39	0.2	0.2	0.2
415	06/17/2009 13:40	0.2	0.2	0.2
416	06/17/2009 13:41	0.2	0.2	0.2
417	06/17/2009 13:42	0.2	0.2	0.2
418	06/17/2009 13:43	0.2	0.2	0.2
419	06/17/2009 13:44	0.2	0.2	0.2
420	06/17/2009 13:45	0.2	0.2	0.2
421	06/17/2009 13:46	0.2	0.2	0.2
422	06/17/2009 13:47	0.2	0.2	0.2
423	06/17/2009 13:48	0.2	0.2	0.2
424	06/17/2009 13:49	0.2	0.2	0.2
425	06/17/2009 13:50	0.2	0.2	0.2
426	06/17/2009 13:51	0.2	0.2	0.2
427	06/17/2009 13:52	0.2	0.2	0.2
428	06/17/2009 13:53	0.2	0.2	0.2
429	06/17/2009 13:54	0.2	0.2	0.2
430	06/17/2009 13:55	0.2	0.2	0.2
431	06/17/2009 13:56	0.2	0.2	0.2
432	06/17/2009 13:57	0.2	0.2	0.2
433	06/17/2009 13:58	0.2	0.2	0.2
434	06/17/2009 13:59	0.2	0.2	0.2
435	06/17/2009 14:00	0.2	0.2	0.2
436	06/17/2009 14:01	0.2	0.2	0.2
437	06/17/2009 14:02	0.2	0.2	0.2
438	06/17/2009 14:03	0.2	0.2	0.2
439	06/17/2009 14:04	0.2	0.2	0.2
440	06/17/2009 14:05	0.2	0.2	0.2
441	06/17/2009 14:06	0.2	0.2	0.2
442	06/17/2009 14:07	0.2	0.2	0.2
443	06/17/2009 14:08	0.2	0.2	0.2
444	06/17/2009 14:09	0.2	0.2	0.2
445	06/17/2009 14:10	0.2	0.2	0.2
446	06/17/2009 14:11	0.2	0.2	0.2
447	06/17/2009 14:12	0.2	0.2	0.2
448	06/17/2009 14:13	0.2	0.2	0.2
449	06/17/2009 14:14	0.2	0.2	0.2
450	06/17/2009 14:15	0.2	0.2	0.2
451	06/17/2009 14:16	0.2	0.2	0.2
452	06/17/2009 14:17	0.2	0.2	0.2
453	06/17/2009 14:18	0.2	0.2	0.2
454	06/17/2009 14:19	0.2	0.2	0.2
455	06/17/2009 14:20	0.2	0.2	0.2
456	06/17/2009 14:21	0.2	0.2	0.2
457	06/17/2009 14:22	0.2	0.2	0.2

458	06/17/2009 14:23	0.2	0.2	0.2
459	06/17/2009 14:24	0.2	0.2	0.2
460	06/17/2009 14:25	0.2	0.2	0.2
461	06/17/2009 14:26	0.2	0.2	0.2
462	06/17/2009 14:27	0.2	0.2	0.2
463	06/17/2009 14:28	0.2	0.2	0.2
464	06/17/2009 14:29	0.2	0.2	0.2
465	06/17/2009 14:30	0.2	0.2	0.2
466	06/17/2009 14:31	0.2	0.2	0.2
467	06/17/2009 14:32	0.2	0.2	0.2
468	06/17/2009 14:33	0.2	0.2	0.2
469	06/17/2009 14:34	0.2	0.2	0.2
470	06/17/2009 14:35	0.2	0.2	0.2
471	06/17/2009 14:36	0.2	0.2	0.2
472	06/17/2009 14:37	0.2	0.2	0.2
473	06/17/2009 14:38	0.2	0.2	0.2
474	06/17/2009 14:39	0.2	0.2	0.2
475	06/17/2009 14:40	0.2	0.2	0.2
476	06/17/2009 14:41	0.2	0.2	0.2
477	06/17/2009 14:42	0.2	0.2	0.2
478	06/17/2009 14:43	0.2	0.2	0.2
479	06/17/2009 14:44	0.2	0.2	0.2
480	06/17/2009 14:45	0.2	0.2	0.2
481	06/17/2009 14:46	0.2	0.2	0.4
482	06/17/2009 14:47	0.2	0.2	0.2
483	06/17/2009 14:48	0.2	0.2	0.2
484	06/17/2009 14:49	0.2	0.2	0.2
485	06/17/2009 14:50	0.2	0.2	0.6
486	06/17/2009 14:51	0.2	0.2	0.3
487	06/17/2009 14:52	0.2	0.2	0.2
488	06/17/2009 14:53	0.2	0.2	0.2
489	06/17/2009 14:54	0.2	0.2	0.3
490	06/17/2009 14:55	0.2	0.2	0.3
491	06/17/2009 14:56	0.2	0.2	0.2
492	06/17/2009 14:57	0.2	0.2	0.2
493	06/17/2009 14:58	0.2	0.2	0.2
494	06/17/2009 14:59	0.2	0.2	0.3
495	06/17/2009 15:00	0.2	0.2	0.4
496	06/17/2009 15:01	0.2	0.2	0.2
497	06/17/2009 15:02	0.2	0.2	0.2
498	06/17/2009 15:03	0.2	0.2	0.2
499	06/17/2009 15:04	0.2	0.2	0.2
500	06/17/2009 15:05	0.2	0.2	0.2
501	06/17/2009 15:06	0.2	0.2	0.2
502	06/17/2009 15:07	0.2	0.2	0.2
503	06/17/2009 15:08	0.2	0.2	0.2
504	06/17/2009 15:09	0.2	0.2	0.2
505	06/17/2009 15:10	0.2	0.2	0.2
506	06/17/2009 15:11	0.2	0.2	0.2
507	06/17/2009 15:12	0.2	0.2	0.2
508	06/17/2009 15:13	0.2	0.2	0.2
509	06/17/2009 15:14	0.2	0.2	0.2



510	06/17/2009 15:15	0.2	0.2	0.2
511	06/17/2009 15:16	0.2	0.2	0.2
512	06/17/2009 15:17	0.2	0.2	0.2
513	06/17/2009 15:18	0.2	0.2	0.2
514	06/17/2009 15:19	0.2	0.2	0.2
515	06/17/2009 15:20	0.2	0.2	0.2
516	06/17/2009 15:21	0.2	0.2	0.2
517	06/17/2009 15:22	0.2	0.2	0.2
518	06/17/2009 15:23	0.2	0.2	0.2
519	06/17/2009 15:24	0.2	0.2	0.2
520	06/17/2009 15:25	0.2	0.2	0.2
521	06/17/2009 15:26	0.2	0.2	0.2
522	06/17/2009 15:27	0.2	0.2	0.2
523	06/17/2009 15:28	0.2	0.2	0.2
524	06/17/2009 15:29	0.2	0.2	0.2
525	06/17/2009 15:30	0.2	0.2	0.2
526	06/17/2009 15:31	0.2	0.2	0.6
527	06/17/2009 15:32	0.2	0.2	0.3
528	06/17/2009 15:33	0.2	0.2	0.2
529	06/17/2009 15:34	0.2	0.2	0.2
530	06/17/2009 15:35	0.2	0.2	0.2
531	06/17/2009 15:36	0.2	0.2	0.3
532	06/17/2009 15:37	0.2	0.2	0.2
533	06/17/2009 15:38	0.2	0.2	0.2
534	06/17/2009 15:39	0.2	0.2	0.2
535	06/17/2009 15:40	0.2	0.2	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 538 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/17/2009 06:43      0.0      0.0      0.0
2 06/17/2009 06:44      0.0      0.0      0.0
3 06/17/2009 06:45      0.0      0.0      0.0
4 06/17/2009 06:46      0.0      0.0      0.6
5 06/17/2009 06:47      0.0      0.0      0.5
6 06/17/2009 06:48      0.0      0.0      0.5
7 06/17/2009 06:49      0.0      0.0      1.0
8 06/17/2009 06:50      0.0      0.0      0.1
9 06/17/2009 06:51      0.0      0.0      0.0
10 06/17/2009 06:52      0.0      0.0      0.0
11 06/17/2009 06:53      0.0      0.0      0.0
12 06/17/2009 06:54      0.0      0.0      0.0
13 06/17/2009 06:55      0.0      0.0      0.0
14 06/17/2009 06:56      0.0      0.0      0.0
15 06/17/2009 06:57      0.0      0.0      0.0
16 06/17/2009 06:58      0.0      0.0      0.0
17 06/17/2009 06:59      0.0      0.0      0.0
18 06/17/2009 07:00      0.0      0.0      0.0
19 06/17/2009 07:01      0.0      0.0      0.0
20 06/17/2009 07:02      0.0      0.0      0.0
21 06/17/2009 07:03      0.0      0.0      0.0
22 06/17/2009 07:04      0.0      0.0      0.0
23 06/17/2009 07:05      0.0      0.0      0.0
24 06/17/2009 07:06      0.0      0.0      0.0
25 06/17/2009 07:07      0.0      0.0      0.0
26 06/17/2009 07:08      0.0      0.0      0.0
27 06/17/2009 07:09      0.0      0.0      0.0
28 06/17/2009 07:10      0.0      0.0      0.0
29 06/17/2009 07:11      0.0      0.0      0.0
30 06/17/2009 07:12      0.0      0.0      0.0
31 06/17/2009 07:13      0.0      0.0      0.0
32 06/17/2009 07:14      0.0      0.0      0.0
33 06/17/2009 07:15      0.0      0.0      0.0
34 06/17/2009 07:16      0.0      0.0      0.0
35 06/17/2009 07:17      0.0      0.0      0.0
36 06/17/2009 07:18      0.0      0.0      0.0
37 06/17/2009 07:19      0.0      0.0      0.0
38 06/17/2009 07:20      0.0      0.0      0.0
39 06/17/2009 07:21      0.0      0.0      0.1
40 06/17/2009 07:22      0.0      0.0      0.1
41 06/17/2009 07:23      0.0      0.0      0.2
```

42	06/17/2009 07:24	0.0	0.0	0.1
43	06/17/2009 07:25	0.0	0.0	0.1
44	06/17/2009 07:26	0.0	0.0	0.1
45	06/17/2009 07:27	0.0	0.0	0.0
46	06/17/2009 07:28	0.0	0.0	0.1
47	06/17/2009 07:29	0.0	0.0	0.1
48	06/17/2009 07:30	0.0	0.0	0.1
49	06/17/2009 07:31	0.0	0.0	0.1
50	06/17/2009 07:32	0.0	0.0	0.0
51	06/17/2009 07:33	0.0	0.0	0.1
52	06/17/2009 07:34	0.0	0.0	0.1
53	06/17/2009 07:35	0.0	0.0	0.1
54	06/17/2009 07:36	0.0	0.0	0.0
55	06/17/2009 07:37	0.0	0.0	0.0
56	06/17/2009 07:38	0.0	0.0	0.1
57	06/17/2009 07:39	0.0	0.0	0.1
58	06/17/2009 07:40	0.0	0.0	0.0
59	06/17/2009 07:41	0.0	0.0	0.1
60	06/17/2009 07:42	0.0	0.0	0.3
61	06/17/2009 07:43	0.0	0.1	0.2
62	06/17/2009 07:44	0.0	0.0	0.1
63	06/17/2009 07:45	0.0	0.0	0.1
64	06/17/2009 07:46	0.0	0.0	0.2
65	06/17/2009 07:47	0.0	0.0	0.1
66	06/17/2009 07:48	0.0	0.0	0.1
67	06/17/2009 07:49	0.0	0.0	0.0
68	06/17/2009 07:50	0.0	0.0	0.1
69	06/17/2009 07:51	0.0	0.0	0.1
70	06/17/2009 07:52	0.1	0.1	0.2
71	06/17/2009 07:53	0.0	0.0	0.1
72	06/17/2009 07:54	0.0	0.1	0.2
73	06/17/2009 07:55	0.0	0.0	0.2
74	06/17/2009 07:56	0.1	0.1	0.2
75	06/17/2009 07:57	0.1	0.2	0.6
76	06/17/2009 07:58	0.1	0.2	0.5
77	06/17/2009 07:59	0.1	0.1	0.2
78	06/17/2009 08:00	0.1	0.1	0.4
79	06/17/2009 08:01	0.1	0.1	0.5
80	06/17/2009 08:02	0.2	0.2	0.3
81	06/17/2009 08:03	0.2	0.2	0.3
82	06/17/2009 08:04	0.1	0.1	0.2
83	06/17/2009 08:05	0.1	0.2	0.4
84	06/17/2009 08:06	0.1	0.1	0.2
85	06/17/2009 08:07	0.1	0.1	0.2
86	06/17/2009 08:08	0.1	0.1	0.2
87	06/17/2009 08:09	0.1	0.2	0.3
88	06/17/2009 08:10	0.1	0.1	0.2
89	06/17/2009 08:11	0.1	0.2	0.3
90	06/17/2009 08:12	0.1	0.1	0.2
91	06/17/2009 08:13	0.1	0.1	0.2
92	06/17/2009 08:14	0.1	0.1	0.3
93	06/17/2009 08:15	0.1	0.1	0.2

94	06/17/2009 08:16	0.1	0.2	0.3
95	06/17/2009 08:17	0.2	0.2	0.3
96	06/17/2009 08:18	0.1	0.2	0.4
97	06/17/2009 08:19	0.1	0.1	0.3
98	06/17/2009 08:20	0.1	0.1	0.2
99	06/17/2009 08:21	0.1	0.1	0.2
100	06/17/2009 08:22	0.1	0.1	0.2
101	06/17/2009 08:23	0.1	0.2	0.4
102	06/17/2009 08:24	0.1	0.1	0.3
103	06/17/2009 08:25	0.1	0.1	0.2
104	06/17/2009 08:26	0.1	0.1	0.2
105	06/17/2009 08:27	0.1	0.1	0.3
106	06/17/2009 08:28	0.1	0.2	0.3
107	06/17/2009 08:29	0.1	0.1	0.4
108	06/17/2009 08:30	0.1	0.1	0.2
109	06/17/2009 08:31	0.2	0.2	0.3
110	06/17/2009 08:32	0.1	0.2	0.3
111	06/17/2009 08:33	0.1	0.1	0.2
112	06/17/2009 08:34	0.1	0.2	0.3
113	06/17/2009 08:35	0.2	0.2	0.8
114	06/17/2009 08:36	0.2	0.2	0.6
115	06/17/2009 08:37	0.1	0.2	0.3
116	06/17/2009 08:38	0.1	0.1	0.2
117	06/17/2009 08:39	0.2	0.2	0.3
118	06/17/2009 08:40	0.2	0.2	0.4
119	06/17/2009 08:41	0.2	0.2	0.5
120	06/17/2009 08:42	0.3	0.3	0.7
121	06/17/2009 08:43	0.3	0.3	0.4
122	06/17/2009 08:44	0.2	0.2	0.4
123	06/17/2009 08:45	0.2	0.2	0.3
124	06/17/2009 08:46	0.2	0.2	0.3
125	06/17/2009 08:47	0.1	0.1	0.3
126	06/17/2009 08:48	0.1	0.2	0.4
127	06/17/2009 08:49	0.2	0.2	0.4
128	06/17/2009 08:50	0.2	0.2	0.5
129	06/17/2009 08:51	0.2	0.4	0.5
130	06/17/2009 08:52	0.2	0.3	0.5
131	06/17/2009 08:53	0.1	0.1	0.3
132	06/17/2009 08:54	0.2	0.2	0.3
133	06/17/2009 08:55	0.2	0.2	0.3
134	06/17/2009 08:56	0.2	0.3	0.5
135	06/17/2009 08:57	0.2	0.3	0.5
136	06/17/2009 08:58	0.1	0.2	0.4
137	06/17/2009 08:59	0.2	0.3	0.5
138	06/17/2009 09:00	0.2	0.3	0.7
139	06/17/2009 09:01	0.2	0.2	0.5
140	06/17/2009 09:02	0.2	0.3	0.4
141	06/17/2009 09:03	0.2	0.3	0.4
142	06/17/2009 09:04	0.3	0.4	0.6
143	06/17/2009 09:05	0.2	0.3	0.4
144	06/17/2009 09:06	0.2	0.3	0.4
145	06/17/2009 09:07	0.2	0.2	0.3

146	06/17/2009 09:08	0.2	0.2	0.3
147	06/17/2009 09:09	0.2	0.2	0.4
148	06/17/2009 09:10	0.2	0.2	0.3
149	06/17/2009 09:11	0.2	0.2	0.3
150	06/17/2009 09:12	0.2	0.2	0.3
151	06/17/2009 09:13	0.2	0.2	0.3
152	06/17/2009 09:14	0.2	0.3	0.5
153	06/17/2009 09:15	0.2	0.3	0.4
154	06/17/2009 09:16	0.3	0.3	0.4
155	06/17/2009 09:17	0.2	0.2	0.4
156	06/17/2009 09:18	0.2	0.2	0.4
157	06/17/2009 09:19	0.2	0.3	0.4
158	06/17/2009 09:20	0.2	0.2	0.4
159	06/17/2009 09:21	0.2	0.3	0.5
160	06/17/2009 09:22	0.2	0.3	0.5
161	06/17/2009 09:23	0.2	0.3	0.4
162	06/17/2009 09:24	0.2	0.3	0.5
163	06/17/2009 09:25	0.2	0.2	0.3
164	06/17/2009 09:26	0.2	0.2	0.5
165	06/17/2009 09:27	0.2	0.3	0.8
166	06/17/2009 09:28	0.2	0.2	0.3
167	06/17/2009 09:29	0.2	0.2	0.5
168	06/17/2009 09:30	0.2	0.2	0.5
169	06/17/2009 09:31	0.2	0.2	0.3
170	06/17/2009 09:32	0.2	0.2	0.4
171	06/17/2009 09:33	0.2	0.2	0.4
172	06/17/2009 09:34	0.2	0.2	0.3
173	06/17/2009 09:35	0.2	0.2	0.4
174	06/17/2009 09:36	0.2	0.2	0.4
175	06/17/2009 09:37	0.1	0.2	0.3
176	06/17/2009 09:38	0.2	0.2	0.3
177	06/17/2009 09:39	0.2	0.2	0.3
178	06/17/2009 09:40	0.2	0.2	0.3
179	06/17/2009 09:41	0.2	0.2	0.3
180	06/17/2009 09:42	0.2	0.2	0.3
181	06/17/2009 09:43	0.2	0.2	0.4
182	06/17/2009 09:44	0.2	0.2	0.3
183	06/17/2009 09:45	0.1	0.2	0.3
184	06/17/2009 09:46	0.2	0.2	0.4
185	06/17/2009 09:47	0.2	0.2	0.4
186	06/17/2009 09:48	0.2	0.2	0.4
187	06/17/2009 09:49	0.2	0.2	0.3
188	06/17/2009 09:50	0.2	0.2	0.4
189	06/17/2009 09:51	0.2	0.3	0.4
190	06/17/2009 09:52	0.2	0.3	0.5
191	06/17/2009 09:53	0.2	0.3	0.5
192	06/17/2009 09:54	0.2	0.3	0.5
193	06/17/2009 09:55	0.2	0.2	0.4
194	06/17/2009 09:56	0.2	0.3	0.5
195	06/17/2009 09:57	0.2	0.2	0.4
196	06/17/2009 09:58	0.2	0.3	0.4
197	06/17/2009 09:59	0.2	0.2	0.3

198	06/17/2009 10:00	0.2	0.2	0.4
199	06/17/2009 10:01	0.2	0.2	0.5
200	06/17/2009 10:02	0.2	0.2	0.6
201	06/17/2009 10:03	0.2	0.2	0.3
202	06/17/2009 10:04	0.2	0.3	0.8
203	06/17/2009 10:05	0.2	0.2	0.4
204	06/17/2009 10:06	0.2	0.2	0.3
205	06/17/2009 10:07	0.2	0.3	0.4
206	06/17/2009 10:08	0.2	0.2	0.4
207	06/17/2009 10:09	0.2	0.2	0.5
208	06/17/2009 10:10	0.2	0.2	0.6
209	06/17/2009 10:11	0.2	0.2	0.6
210	06/17/2009 10:12	0.2	0.2	0.3
211	06/17/2009 10:13	0.2	0.2	0.3
212	06/17/2009 10:14	0.2	0.2	0.3
213	06/17/2009 10:15	0.2	0.2	0.3
214	06/17/2009 10:16	0.2	0.2	0.3
215	06/17/2009 10:17	0.2	0.3	0.5
216	06/17/2009 10:18	0.2	0.3	0.4
217	06/17/2009 10:19	0.2	0.2	0.4
218	06/17/2009 10:20	0.2	0.2	0.3
219	06/17/2009 10:21	0.2	0.2	0.3
220	06/17/2009 10:22	0.2	0.3	0.5
221	06/17/2009 10:23	0.2	0.2	0.4
222	06/17/2009 10:24	0.2	0.3	0.5
223	06/17/2009 10:25	0.2	0.3	0.7
224	06/17/2009 10:26	0.3	0.4	0.8
225	06/17/2009 10:27	0.3	0.4	0.5
226	06/17/2009 10:28	0.2	0.3	0.5
227	06/17/2009 10:29	0.2	0.3	0.4
228	06/17/2009 10:30	0.2	0.2	0.4
229	06/17/2009 10:31	0.2	0.3	0.4
230	06/17/2009 10:32	0.2	0.2	0.4
231	06/17/2009 10:33	0.2	0.2	0.4
232	06/17/2009 10:34	0.2	0.3	0.5
233	06/17/2009 10:35	0.2	0.2	0.5
234	06/17/2009 10:36	0.2	0.3	0.7
235	06/17/2009 10:37	0.2	0.5	1.2
236	06/17/2009 10:38	0.3	0.7	1.7
237	06/17/2009 10:39	0.2	0.3	1.0
238	06/17/2009 10:40	0.2	0.2	0.4
239	06/17/2009 10:41	0.2	0.2	0.3
240	06/17/2009 10:42	0.2	0.2	0.3
241	06/17/2009 10:43	0.2	0.4	0.7
242	06/17/2009 10:44	0.4	0.5	1.1
243	06/17/2009 10:45	0.4	0.6	0.9
244	06/17/2009 10:46	0.2	0.3	0.6
245	06/17/2009 10:47	0.2	0.3	0.4
246	06/17/2009 10:48	0.1	0.2	0.3
247	06/17/2009 10:49	0.1	0.2	0.4
248	06/17/2009 10:50	0.1	0.2	0.4
249	06/17/2009 10:51	0.2	0.3	0.4

250	06/17/2009 10:52	0.2	0.2	0.5
251	06/17/2009 10:53	0.2	0.3	0.5
252	06/17/2009 10:54	0.2	0.2	0.3
253	06/17/2009 10:55	0.1	0.2	0.5
254	06/17/2009 10:56	0.1	0.2	0.3
255	06/17/2009 10:57	0.2	0.2	0.3
256	06/17/2009 10:58	0.2	0.2	0.4
257	06/17/2009 10:59	0.2	0.2	0.3
258	06/17/2009 11:00	0.2	0.2	0.4
259	06/17/2009 11:01	0.2	0.2	0.4
260	06/17/2009 11:02	0.2	0.3	0.5
261	06/17/2009 11:03	0.2	0.2	0.4
262	06/17/2009 11:04	0.2	0.2	0.4
263	06/17/2009 11:05	0.2	0.2	0.4
264	06/17/2009 11:06	0.3	0.3	0.4
265	06/17/2009 11:07	0.2	0.3	0.7
266	06/17/2009 11:08	0.2	0.2	0.3
267	06/17/2009 11:09	0.2	0.2	0.4
268	06/17/2009 11:10	0.2	0.3	0.6
269	06/17/2009 11:11	0.2	0.3	0.6
270	06/17/2009 11:12	0.2	0.4	0.9
271	06/17/2009 11:13	0.2	0.3	0.5
272	06/17/2009 11:14	0.2	0.3	0.7
273	06/17/2009 11:15	0.2	0.3	0.5
274	06/17/2009 11:16	0.2	0.2	0.4
275	06/17/2009 11:17	0.2	0.2	0.4
276	06/17/2009 11:18	0.2	0.3	0.5
277	06/17/2009 11:19	0.2	0.2	0.5
278	06/17/2009 11:20	0.2	0.2	0.3
279	06/17/2009 11:21	0.2	0.2	0.3
280	06/17/2009 11:22	0.2	0.2	0.4
281	06/17/2009 11:23	0.2	0.2	0.4
282	06/17/2009 11:24	0.2	0.2	0.5
283	06/17/2009 11:25	0.2	0.2	0.4
284	06/17/2009 11:26	0.1	0.2	0.4
285	06/17/2009 11:27	0.1	0.2	0.3
286	06/17/2009 11:28	0.2	0.2	0.4
287	06/17/2009 11:29	0.1	0.2	0.5
288	06/17/2009 11:30	0.2	0.2	0.5
289	06/17/2009 11:31	0.2	0.3	0.7
290	06/17/2009 11:32	0.1	0.3	0.6
291	06/17/2009 11:33	0.2	0.3	0.8
292	06/17/2009 11:34	0.2	0.2	0.3
293	06/17/2009 11:35	0.2	0.2	0.4
294	06/17/2009 11:36	0.2	0.3	0.4
295	06/17/2009 11:37	0.2	0.4	0.7
296	06/17/2009 11:38	0.1	0.2	0.5
297	06/17/2009 11:39	0.2	0.3	0.5
298	06/17/2009 11:40	0.2	0.3	0.4
299	06/17/2009 11:41	0.2	0.2	0.4
300	06/17/2009 11:42	0.2	0.3	0.5
301	06/17/2009 11:43	0.2	0.2	0.3

302	06/17/2009 11:44	0.1	0.2	0.3
303	06/17/2009 11:45	0.2	0.3	0.5
304	06/17/2009 11:46	0.1	0.2	0.6
305	06/17/2009 11:47	0.2	0.2	0.5
306	06/17/2009 11:48	0.1	0.2	0.4
307	06/17/2009 11:49	0.1	0.2	0.4
308	06/17/2009 11:50	0.1	0.2	0.3
309	06/17/2009 11:51	0.2	0.2	0.4
310	06/17/2009 11:52	0.2	0.3	0.6
311	06/17/2009 11:53	0.2	0.4	0.7
312	06/17/2009 11:54	0.2	0.3	0.5
313	06/17/2009 11:55	0.1	0.2	0.4
314	06/17/2009 11:56	0.1	0.2	0.3
315	06/17/2009 11:57	0.2	0.2	0.6
316	06/17/2009 11:58	0.1	0.2	0.4
317	06/17/2009 11:59	0.2	0.3	0.5
318	06/17/2009 12:00	0.2	0.5	1.1
319	06/17/2009 12:01	0.2	0.3	0.6
320	06/17/2009 12:02	0.2	0.6	1.4
321	06/17/2009 12:03	0.2	0.5	0.9
322	06/17/2009 12:04	0.2	0.2	0.4
323	06/17/2009 12:05	0.2	0.4	1.3
324	06/17/2009 12:06	0.1	0.2	0.4
325	06/17/2009 12:07	0.2	0.2	0.4
326	06/17/2009 12:08	0.2	0.4	1.1
327	06/17/2009 12:09	0.2	0.4	0.7
328	06/17/2009 12:10	0.2	0.4	1.1
329	06/17/2009 12:11	0.2	0.3	0.6
330	06/17/2009 12:12	0.2	0.2	0.5
331	06/17/2009 12:13	0.2	0.4	0.7
332	06/17/2009 12:14	0.2	0.3	0.7
333	06/17/2009 12:15	0.1	0.2	0.4
334	06/17/2009 12:16	0.2	0.2	0.5
335	06/17/2009 12:17	0.1	0.3	0.6
336	06/17/2009 12:18	0.2	0.2	0.5
337	06/17/2009 12:19	0.1	0.1	0.3
338	06/17/2009 12:20	0.1	0.1	0.2
339	06/17/2009 12:21	0.1	0.1	0.3
340	06/17/2009 12:22	0.1	0.1	0.3
341	06/17/2009 12:23	0.1	0.1	0.3
342	06/17/2009 12:24	0.1	0.2	0.4
343	06/17/2009 12:25	0.1	0.2	0.4
344	06/17/2009 12:26	0.1	0.2	0.9
345	06/17/2009 12:27	0.2	0.4	0.9
346	06/17/2009 12:28	0.2	0.3	1.1
347	06/17/2009 12:29	0.3	0.5	0.7
348	06/17/2009 12:30	0.3	0.4	0.7
349	06/17/2009 12:31	0.1	0.1	0.3
350	06/17/2009 12:32	0.1	0.1	0.3
351	06/17/2009 12:33	0.1	0.2	0.4
352	06/17/2009 12:34	0.2	0.5	1.1
353	06/17/2009 12:35	0.2	0.3	0.7



354	06/17/2009 12:36	0.2	0.4	0.8
355	06/17/2009 12:37	0.2	0.4	0.7
356	06/17/2009 12:38	0.1	0.4	0.8
357	06/17/2009 12:39	0.1	0.2	0.3
358	06/17/2009 12:40	0.1	0.2	0.4
359	06/17/2009 12:41	0.1	0.1	0.3
360	06/17/2009 12:42	0.2	0.4	0.7
361	06/17/2009 12:43	0.1	0.3	0.6
362	06/17/2009 12:44	0.1	0.1	0.2
363	06/17/2009 12:45	0.1	0.2	0.6
364	06/17/2009 12:46	0.1	0.2	0.4
365	06/17/2009 12:47	0.1	0.2	0.5
366	06/17/2009 12:48	0.1	0.2	0.6
367	06/17/2009 12:49	0.2	0.5	1.0
368	06/17/2009 12:50	0.1	0.3	0.6
369	06/17/2009 12:51	0.0	0.2	0.6
370	06/17/2009 12:52	0.1	0.4	1.5
371	06/17/2009 12:53	0.2	0.8	1.4
372	06/17/2009 12:54	0.1	0.2	0.5
373	06/17/2009 12:55	0.2	0.4	1.1
374	06/17/2009 12:56	0.1	0.2	0.6
375	06/17/2009 12:57	0.1	0.2	0.5
376	06/17/2009 12:58	0.1	0.2	0.5
377	06/17/2009 12:59	0.2	0.6	1.0
378	06/17/2009 13:00	0.2	0.4	0.7
379	06/17/2009 13:01	0.1	0.3	0.7
380	06/17/2009 13:02	0.1	0.3	1.0
381	06/17/2009 13:03	0.2	0.3	0.5
382	06/17/2009 13:04	0.1	0.2	0.5
383	06/17/2009 13:05	0.1	0.2	0.3
384	06/17/2009 13:06	0.1	0.2	0.4
385	06/17/2009 13:07	0.1	0.3	0.6
386	06/17/2009 13:08	0.1	0.2	0.3
387	06/17/2009 13:09	0.1	0.4	1.9
388	06/17/2009 13:10	0.2	0.4	0.8
389	06/17/2009 13:11	0.3	0.5	1.1
390	06/17/2009 13:12	0.3	0.6	2.0
391	06/17/2009 13:13	0.3	0.7	2.0
392	06/17/2009 13:14	0.1	0.5	1.0
393	06/17/2009 13:15	0.2	0.3	0.5
394	06/17/2009 13:16	0.2	0.5	1.1
395	06/17/2009 13:17	0.1	0.4	1.2
396	06/17/2009 13:18	0.2	0.3	0.5
397	06/17/2009 13:19	0.1	0.2	0.5
398	06/17/2009 13:20	0.1	0.2	0.4
399	06/17/2009 13:21	0.1	0.2	0.3
400	06/17/2009 13:22	0.1	0.2	0.4
401	06/17/2009 13:23	0.1	0.2	0.4
402	06/17/2009 13:24	0.1	0.2	0.4
403	06/17/2009 13:25	0.1	0.2	0.5
404	06/17/2009 13:26	0.2	0.2	0.4
405	06/17/2009 13:27	0.2	0.2	0.5

406	06/17/2009 13:28	0.2	0.3	0.8
407	06/17/2009 13:29	0.1	0.5	1.3
408	06/17/2009 13:30	0.2	0.3	0.5
409	06/17/2009 13:31	0.2	0.2	0.3
410	06/17/2009 13:32	0.1	0.2	0.5
411	06/17/2009 13:33	0.1	0.1	0.3
412	06/17/2009 13:34	0.2	0.3	0.8
413	06/17/2009 13:35	0.2	0.4	0.9
414	06/17/2009 13:36	0.2	0.4	0.8
415	06/17/2009 13:37	0.2	0.4	0.9
416	06/17/2009 13:38	0.2	0.3	0.6
417	06/17/2009 13:39	0.2	0.2	0.6
418	06/17/2009 13:40	0.2	0.4	0.8
419	06/17/2009 13:41	0.1	0.3	0.6
420	06/17/2009 13:42	0.2	0.7	1.7
421	06/17/2009 13:43	0.2	0.2	0.5
422	06/17/2009 13:44	0.1	0.2	0.5
423	06/17/2009 13:45	0.1	0.1	0.4
424	06/17/2009 13:46	0.1	0.2	0.3
425	06/17/2009 13:47	0.2	0.4	0.7
426	06/17/2009 13:48	0.1	0.3	0.6
427	06/17/2009 13:49	0.1	0.2	0.9
428	06/17/2009 13:50	0.1	0.1	0.4
429	06/17/2009 13:51	0.2	0.2	0.5
430	06/17/2009 13:52	0.2	0.3	0.6
431	06/17/2009 13:53	0.1	0.5	1.0
432	06/17/2009 13:54	0.3	0.5	1.0
433	06/17/2009 13:55	0.1	0.2	0.6
434	06/17/2009 13:56	0.2	0.3	0.8
435	06/17/2009 13:57	0.0	0.1	0.4
436	06/17/2009 13:58	0.1	0.2	0.9
437	06/17/2009 13:59	0.1	0.3	0.9
438	06/17/2009 14:00	0.0	0.1	0.5
439	06/17/2009 14:01	0.1	0.2	0.5
440	06/17/2009 14:02	0.0	0.1	0.4
441	06/17/2009 14:03	0.1	0.2	0.5
442	06/17/2009 14:04	0.1	0.2	0.9
443	06/17/2009 14:05	0.1	0.3	0.9
444	06/17/2009 14:06	0.1	0.1	0.2
445	06/17/2009 14:07	0.1	0.1	0.3
446	06/17/2009 14:08	0.1	0.1	0.2
447	06/17/2009 14:09	0.1	0.2	0.7
448	06/17/2009 14:10	0.1	0.3	0.8
449	06/17/2009 14:11	0.1	0.3	0.9
450	06/17/2009 14:12	0.1	0.4	0.9
451	06/17/2009 14:13	0.2	0.4	1.1
452	06/17/2009 14:14	0.2	0.4	0.7
453	06/17/2009 14:15	0.1	0.2	0.3
454	06/17/2009 14:16	0.1	0.1	0.4
455	06/17/2009 14:17	0.2	0.4	0.8
456	06/17/2009 14:18	0.1	0.3	0.6
457	06/17/2009 14:19	0.1	0.2	0.8

458	06/17/2009 14:20	0.1	0.1	0.2
459	06/17/2009 14:21	0.1	0.1	0.2
460	06/17/2009 14:22	0.0	0.1	0.2
461	06/17/2009 14:23	0.1	0.2	0.5
462	06/17/2009 14:24	0.1	0.1	0.3
463	06/17/2009 14:25	0.1	0.1	0.3
464	06/17/2009 14:26	0.1	0.1	0.2
465	06/17/2009 14:27	0.1	0.1	0.5
466	06/17/2009 14:28	0.1	0.1	0.4
467	06/17/2009 14:29	0.1	0.2	0.3
468	06/17/2009 14:30	0.1	0.3	1.0
469	06/17/2009 14:31	0.1	0.4	1.1
470	06/17/2009 14:32	0.0	0.3	0.9
471	06/17/2009 14:33	0.0	0.1	0.4
472	06/17/2009 14:34	0.0	0.1	0.4
473	06/17/2009 14:35	0.0	0.2	0.8
474	06/17/2009 14:36	0.0	0.1	0.2
475	06/17/2009 14:37	0.0	0.1	0.8
476	06/17/2009 14:38	0.3	0.6	1.2
477	06/17/2009 14:39	0.1	0.4	0.9
478	06/17/2009 14:40	0.1	0.3	0.9
479	06/17/2009 14:41	0.1	0.1	0.5
480	06/17/2009 14:42	0.0	0.1	0.2
481	06/17/2009 14:43	0.0	0.1	0.6
482	06/17/2009 14:44	0.1	0.1	0.3
483	06/17/2009 14:45	0.2	0.3	0.4
484	06/17/2009 14:46	0.1	0.2	0.6
485	06/17/2009 14:47	0.1	0.3	0.8
486	06/17/2009 14:48	0.1	0.3	0.7
487	06/17/2009 14:49	0.0	0.2	0.4
488	06/17/2009 14:50	0.1	0.2	1.0
489	06/17/2009 14:51	0.1	0.1	0.2
490	06/17/2009 14:52	0.1	0.1	0.3
491	06/17/2009 14:53	0.0	0.1	0.4
492	06/17/2009 14:54	0.1	0.3	0.7
493	06/17/2009 14:55	0.1	0.3	0.9
494	06/17/2009 14:56	0.0	0.1	0.5
495	06/17/2009 14:57	0.0	0.1	0.3
496	06/17/2009 14:58	0.1	0.4	1.1
497	06/17/2009 14:59	0.0	0.1	0.4
498	06/17/2009 15:00	0.1	0.1	0.4
499	06/17/2009 15:01	0.1	0.3	0.8
500	06/17/2009 15:02	0.1	0.3	1.0
501	06/17/2009 15:03	0.0	0.1	0.3
502	06/17/2009 15:04	0.0	0.0	0.1
503	06/17/2009 15:05	0.0	0.2	0.5
504	06/17/2009 15:06	0.0	0.2	0.9
505	06/17/2009 15:07	0.1	0.2	0.5
506	06/17/2009 15:08	0.0	0.2	0.5
507	06/17/2009 15:09	0.0	0.1	0.3
508	06/17/2009 15:10	0.0	0.1	0.4
509	06/17/2009 15:11	0.1	0.2	0.5

510	06/17/2009 15:12	0.1	0.1	0.5
511	06/17/2009 15:13	0.0	0.0	0.2
512	06/17/2009 15:14	0.0	0.1	0.5
513	06/17/2009 15:15	0.1	0.3	0.7
514	06/17/2009 15:16	0.1	0.2	0.5
515	06/17/2009 15:17	0.1	0.2	0.4
516	06/17/2009 15:18	0.0	0.2	2.3
517	06/17/2009 15:19	0.0	0.2	1.2
518	06/17/2009 15:20	0.1	0.2	0.9
519	06/17/2009 15:21	0.0	0.1	0.8
520	06/17/2009 15:22	0.1	0.2	0.9
521	06/17/2009 15:23	0.1	0.2	0.8
522	06/17/2009 15:24	0.1	0.3	1.0
523	06/17/2009 15:25	0.1	0.2	0.5
524	06/17/2009 15:26	0.1	0.4	0.9
525	06/17/2009 15:27	0.1	0.3	0.8
526	06/17/2009 15:28	0.1	0.3	0.9
527	06/17/2009 15:29	0.0	0.1	0.7
528	06/17/2009 15:30	0.1	0.2	0.6
529	06/17/2009 15:31	0.0	0.1	0.2
530	06/17/2009 15:32	0.0	0.1	0.2
531	06/17/2009 15:33	0.0	0.1	0.2
532	06/17/2009 15:34	0.0	0.1	0.2
533	06/17/2009 15:35	0.0	0.1	0.2
534	06/17/2009 15:36	0.0	0.1	0.2
535	06/17/2009 15:37	0.0	0.1	0.2
536	06/17/2009 15:38	0.0	0.1	0.2
537	06/17/2009 15:39	0.0	0.1	0.2
538	06/17/2009 15:40	0.0	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 536 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/17/2009 06:32      0.0      0.0      0.0
2 06/17/2009 06:33      0.0      0.0      0.0
3 06/17/2009 06:34      0.0      0.0      0.0
4 06/17/2009 06:35      0.0      0.0      0.0
5 06/17/2009 06:36      0.0      0.0      0.0
6 06/17/2009 06:37      0.0      0.0      0.0
7 06/17/2009 06:38      0.0      0.0      0.0
8 06/17/2009 06:39      0.0      0.0      0.0
9 06/17/2009 06:40      0.0      0.0      0.0
10 06/17/2009 06:41      0.0      0.0      0.0
11 06/17/2009 06:42      0.0      0.0      0.0
12 06/17/2009 06:43      0.0      0.0      0.0
13 06/17/2009 06:44      0.0      0.0      0.0
14 06/17/2009 06:45      0.0      0.0      0.0
15 06/17/2009 06:46      0.0      0.0      0.0
16 06/17/2009 06:47      0.0      0.0      0.0
17 06/17/2009 06:48      0.0      0.0      0.0
18 06/17/2009 06:49      0.0      0.0      0.0
19 06/17/2009 06:50      0.0      0.0      0.0
20 06/17/2009 06:51      0.0      0.0      0.0
21 06/17/2009 06:52      0.0      0.0      0.0
22 06/17/2009 06:53      0.0      0.0      0.0
23 06/17/2009 06:54      0.0      0.0      0.0
24 06/17/2009 06:55      0.0      0.0      0.0
25 06/17/2009 06:56      0.0      0.0      0.0
26 06/17/2009 06:57      0.0      0.0      0.0
27 06/17/2009 06:58      0.0      0.0      0.0
28 06/17/2009 06:59      0.0      0.0      0.0
29 06/17/2009 07:00      0.0      0.0      0.0
30 06/17/2009 07:01      0.0      0.0      0.0
31 06/17/2009 07:02      0.0      0.0      0.0
32 06/17/2009 07:03      0.0      0.0      0.0
33 06/17/2009 07:04      0.0      0.0      0.0
34 06/17/2009 07:05      0.0      0.0      0.0
35 06/17/2009 07:06      0.0      0.0      0.0
36 06/17/2009 07:07      0.0      0.0      0.0
37 06/17/2009 07:08      0.0      0.0      0.0
38 06/17/2009 07:09      0.0      0.0      0.0
39 06/17/2009 07:10      0.0      0.0      0.0
40 06/17/2009 07:11      0.0      0.0      0.0
41 06/17/2009 07:12      0.0      0.0      0.0
```

42	06/17/2009 07:13	0.0	0.0	0.0
43	06/17/2009 07:14	0.0	0.0	0.0
44	06/17/2009 07:15	0.0	0.0	0.0
45	06/17/2009 07:16	0.0	0.0	0.0
46	06/17/2009 07:17	0.0	0.0	0.0
47	06/17/2009 07:18	0.0	0.0	0.0
48	06/17/2009 07:19	0.0	0.0	0.0
49	06/17/2009 07:20	0.0	0.0	0.0
50	06/17/2009 07:21	0.0	0.0	0.0
51	06/17/2009 07:22	0.0	0.0	0.0
52	06/17/2009 07:23	0.0	0.0	0.0
53	06/17/2009 07:24	0.0	0.0	0.0
54	06/17/2009 07:25	0.0	0.0	0.0
55	06/17/2009 07:26	0.0	0.0	0.0
56	06/17/2009 07:27	0.0	0.0	0.0
57	06/17/2009 07:28	0.0	0.0	0.0
58	06/17/2009 07:29	0.0	0.0	0.0
59	06/17/2009 07:30	0.0	0.0	0.0
60	06/17/2009 07:31	0.0	0.0	0.0
61	06/17/2009 07:32	0.0	0.0	0.0
62	06/17/2009 07:33	0.0	0.0	0.0
63	06/17/2009 07:34	0.0	0.0	0.1
64	06/17/2009 07:35	0.0	0.0	0.0
65	06/17/2009 07:36	0.0	0.0	0.0
66	06/17/2009 07:37	0.0	0.0	0.0
67	06/17/2009 07:38	0.0	0.0	0.0
68	06/17/2009 07:39	0.0	0.0	0.0
69	06/17/2009 07:40	0.0	0.0	0.0
70	06/17/2009 07:41	0.0	0.0	0.0
71	06/17/2009 07:42	0.0	0.0	0.0
72	06/17/2009 07:43	0.0	0.0	0.0
73	06/17/2009 07:44	0.0	0.0	0.0
74	06/17/2009 07:45	0.0	0.0	0.0
75	06/17/2009 07:46	0.0	0.0	0.0
76	06/17/2009 07:47	0.0	0.0	0.0
77	06/17/2009 07:48	0.0	0.0	0.0
78	06/17/2009 07:49	0.0	0.0	0.0
79	06/17/2009 07:50	0.0	0.0	0.0
80	06/17/2009 07:51	0.0	0.0	0.0
81	06/17/2009 07:52	0.0	0.0	0.0
82	06/17/2009 07:53	0.0	0.0	0.0
83	06/17/2009 07:54	0.0	0.0	0.0
84	06/17/2009 07:55	0.0	0.0	0.0
85	06/17/2009 07:56	0.0	0.0	0.0
86	06/17/2009 07:57	0.0	0.0	0.0
87	06/17/2009 07:58	0.0	0.0	0.0
88	06/17/2009 07:59	0.0	0.0	0.0
89	06/17/2009 08:00	0.0	0.0	0.0
90	06/17/2009 08:01	0.0	0.0	0.0
91	06/17/2009 08:02	0.0	0.0	0.0
92	06/17/2009 08:03	0.0	0.0	0.0
93	06/17/2009 08:04	0.0	0.0	0.0

94	06/17/2009 08:05	0.0	0.0	0.0
95	06/17/2009 08:06	0.0	0.0	0.0
96	06/17/2009 08:07	0.0	0.0	0.0
97	06/17/2009 08:08	0.0	0.0	0.0
98	06/17/2009 08:09	0.0	0.0	0.0
99	06/17/2009 08:10	0.0	0.0	0.0
100	06/17/2009 08:11	0.0	0.0	0.0
101	06/17/2009 08:12	0.0	0.0	0.0
102	06/17/2009 08:13	0.0	0.0	0.0
103	06/17/2009 08:14	0.0	0.0	0.0
104	06/17/2009 08:15	0.0	0.0	0.0
105	06/17/2009 08:16	0.0	0.0	0.0
106	06/17/2009 08:17	0.0	0.0	0.0
107	06/17/2009 08:18	0.0	0.0	0.0
108	06/17/2009 08:19	0.0	0.0	0.0
109	06/17/2009 08:20	0.0	0.0	0.0
110	06/17/2009 08:21	0.0	0.0	0.0
111	06/17/2009 08:22	0.0	0.0	0.0
112	06/17/2009 08:23	0.0	0.0	0.0
113	06/17/2009 08:24	0.0	0.0	0.0
114	06/17/2009 08:25	0.0	0.0	0.0
115	06/17/2009 08:26	0.0	0.0	0.0
116	06/17/2009 08:27	0.0	0.0	0.0
117	06/17/2009 08:28	0.0	0.0	0.0
118	06/17/2009 08:29	0.0	0.0	0.0
119	06/17/2009 08:30	0.0	0.0	0.0
120	06/17/2009 08:31	0.0	0.0	0.0
121	06/17/2009 08:32	0.0	0.0	0.0
122	06/17/2009 08:33	0.0	0.0	0.0
123	06/17/2009 08:34	0.0	0.0	0.0
124	06/17/2009 08:35	0.0	0.0	0.0
125	06/17/2009 08:36	0.0	0.0	0.0
126	06/17/2009 08:37	0.0	0.0	0.0
127	06/17/2009 08:38	0.0	0.0	0.0
128	06/17/2009 08:39	0.0	0.0	0.0
129	06/17/2009 08:40	0.0	0.0	0.0
130	06/17/2009 08:41	0.0	0.0	0.0
131	06/17/2009 08:42	0.0	0.0	0.0
132	06/17/2009 08:43	0.0	0.0	0.0
133	06/17/2009 08:44	0.0	0.0	0.0
134	06/17/2009 08:45	0.0	0.0	0.0
135	06/17/2009 08:46	0.0	0.0	0.0
136	06/17/2009 08:47	0.0	0.0	0.0
137	06/17/2009 08:48	0.0	0.0	0.0
138	06/17/2009 08:49	0.0	0.0	0.0
139	06/17/2009 08:50	0.0	0.0	0.0
140	06/17/2009 08:51	0.0	0.0	0.0
141	06/17/2009 08:52	0.0	0.0	0.0
142	06/17/2009 08:53	0.0	0.0	0.0
143	06/17/2009 08:54	0.0	0.0	0.0
144	06/17/2009 08:55	0.0	0.0	0.0
145	06/17/2009 08:56	0.0	0.0	0.0

146	06/17/2009 08:57	0.0	0.0	0.0
147	06/17/2009 08:58	0.0	0.0	0.0
148	06/17/2009 08:59	0.0	0.0	0.0
149	06/17/2009 09:00	0.0	0.0	0.0
150	06/17/2009 09:01	0.0	0.0	0.0
151	06/17/2009 09:02	0.0	0.0	0.0
152	06/17/2009 09:03	0.0	0.0	0.0
153	06/17/2009 09:04	0.0	0.0	0.0
154	06/17/2009 09:05	0.0	0.0	0.0
155	06/17/2009 09:06	0.0	0.0	0.0
156	06/17/2009 09:07	0.0	0.0	0.0
157	06/17/2009 09:08	0.0	0.0	0.0
158	06/17/2009 09:09	0.0	0.0	0.0
159	06/17/2009 09:10	0.0	0.0	0.0
160	06/17/2009 09:11	0.0	0.0	0.0
161	06/17/2009 09:12	0.0	0.0	0.0
162	06/17/2009 09:13	0.0	0.0	0.0
163	06/17/2009 09:14	0.0	0.0	0.0
164	06/17/2009 09:15	0.0	0.0	0.0
165	06/17/2009 09:16	0.0	0.0	0.0
166	06/17/2009 09:17	0.0	0.0	0.0
167	06/17/2009 09:18	0.0	0.0	0.0
168	06/17/2009 09:19	0.0	0.0	0.0
169	06/17/2009 09:20	0.0	0.0	0.0
170	06/17/2009 09:21	0.0	0.0	0.0
171	06/17/2009 09:22	0.0	0.0	0.0
172	06/17/2009 09:23	0.0	0.0	0.0
173	06/17/2009 09:24	0.0	0.0	0.0
174	06/17/2009 09:25	0.0	0.0	0.0
175	06/17/2009 09:26	0.0	0.0	0.0
176	06/17/2009 09:27	0.0	0.0	0.0
177	06/17/2009 09:28	0.0	0.0	0.0
178	06/17/2009 09:29	0.0	0.0	0.0
179	06/17/2009 09:30	0.0	0.0	0.0
180	06/17/2009 09:31	0.0	0.0	0.0
181	06/17/2009 09:32	0.0	0.0	0.0
182	06/17/2009 09:33	0.0	0.0	0.0
183	06/17/2009 09:34	0.0	0.0	0.0
184	06/17/2009 09:35	0.0	0.0	0.0
185	06/17/2009 09:36	0.0	0.0	0.0
186	06/17/2009 09:37	0.0	0.0	0.0
187	06/17/2009 09:38	0.0	0.0	0.0
188	06/17/2009 09:39	0.0	0.0	0.0
189	06/17/2009 09:40	0.0	0.0	0.0
190	06/17/2009 09:41	0.0	0.0	0.0
191	06/17/2009 09:42	0.0	0.0	0.0
192	06/17/2009 09:43	0.0	0.0	0.0
193	06/17/2009 09:44	0.0	0.0	0.0
194	06/17/2009 09:45	0.0	0.0	0.0
195	06/17/2009 09:46	0.0	0.0	0.0
196	06/17/2009 09:47	0.0	0.0	0.0
197	06/17/2009 09:48	0.0	0.0	0.0



198	06/17/2009 09:49	0.0	0.0	0.0
199	06/17/2009 09:50	0.0	0.0	0.0
200	06/17/2009 09:51	0.0	0.0	0.0
201	06/17/2009 09:52	0.0	0.0	0.0
202	06/17/2009 09:53	0.0	0.0	0.0
203	06/17/2009 09:54	0.0	0.0	0.0
204	06/17/2009 09:55	0.0	0.0	0.0
205	06/17/2009 09:56	0.0	0.0	0.0
206	06/17/2009 09:57	0.0	0.0	0.0
207	06/17/2009 09:58	0.0	0.0	0.0
208	06/17/2009 09:59	0.0	0.0	0.0
209	06/17/2009 10:00	0.0	0.0	0.0
210	06/17/2009 10:01	0.0	0.0	0.0
211	06/17/2009 10:02	0.0	0.0	0.0
212	06/17/2009 10:03	0.0	0.0	0.0
213	06/17/2009 10:04	0.0	0.0	0.0
214	06/17/2009 10:05	0.0	0.0	0.0
215	06/17/2009 10:06	0.0	0.0	0.0
216	06/17/2009 10:07	0.0	0.0	0.0
217	06/17/2009 10:08	0.0	0.0	0.0
218	06/17/2009 10:09	0.0	0.0	0.0
219	06/17/2009 10:10	0.0	0.0	0.0
220	06/17/2009 10:11	0.0	0.0	0.0
221	06/17/2009 10:12	0.0	0.0	0.0
222	06/17/2009 10:13	0.0	0.0	0.0
223	06/17/2009 10:14	0.0	0.0	0.0
224	06/17/2009 10:15	0.0	0.0	0.0
225	06/17/2009 10:16	0.0	0.0	0.0
226	06/17/2009 10:17	0.0	0.0	0.0
227	06/17/2009 10:18	0.0	0.0	0.0
228	06/17/2009 10:19	0.0	0.0	0.0
229	06/17/2009 10:20	0.0	0.0	0.0
230	06/17/2009 10:21	0.0	0.0	0.0
231	06/17/2009 10:22	0.0	0.0	0.0
232	06/17/2009 10:23	0.0	0.0	0.0
233	06/17/2009 10:24	0.0	0.0	0.0
234	06/17/2009 10:25	0.0	0.0	0.0
235	06/17/2009 10:26	0.0	0.0	0.0
236	06/17/2009 10:27	0.0	0.0	0.0
237	06/17/2009 10:28	0.0	0.0	0.0
238	06/17/2009 10:29	0.0	0.0	0.0
239	06/17/2009 10:30	0.0	0.0	0.0
240	06/17/2009 10:31	0.0	0.0	0.0
241	06/17/2009 10:32	0.0	0.0	0.0
242	06/17/2009 10:33	0.0	0.0	0.0
243	06/17/2009 10:34	0.0	0.0	0.0
244	06/17/2009 10:35	0.0	0.0	0.0
245	06/17/2009 10:36	0.0	0.0	0.0
246	06/17/2009 10:37	0.0	0.0	0.0
247	06/17/2009 10:38	0.0	0.0	0.0
248	06/17/2009 10:39	0.0	0.0	0.0
249	06/17/2009 10:40	0.0	0.0	0.0

250	06/17/2009 10:41	0.0	0.0	0.0
251	06/17/2009 10:42	0.0	0.0	0.0
252	06/17/2009 10:43	0.0	0.0	0.0
253	06/17/2009 10:44	0.0	0.0	0.0
254	06/17/2009 10:45	0.0	0.0	0.0
255	06/17/2009 10:46	0.0	0.0	0.0
256	06/17/2009 10:47	0.0	0.0	0.0
257	06/17/2009 10:48	0.0	0.0	0.0
258	06/17/2009 10:49	0.0	0.0	0.0
259	06/17/2009 10:50	0.0	0.0	0.0
260	06/17/2009 10:51	0.0	0.0	0.0
261	06/17/2009 10:52	0.0	0.0	0.0
262	06/17/2009 10:53	0.0	0.0	0.0
263	06/17/2009 10:54	0.0	0.0	0.0
264	06/17/2009 10:55	0.0	0.0	0.0
265	06/17/2009 10:56	0.0	0.0	0.0
266	06/17/2009 10:57	0.0	0.0	0.0
267	06/17/2009 10:58	0.0	0.0	0.0
268	06/17/2009 10:59	0.0	0.0	0.0
269	06/17/2009 11:00	0.0	0.0	0.0
270	06/17/2009 11:01	0.0	0.0	0.0
271	06/17/2009 11:02	0.0	0.0	0.0
272	06/17/2009 11:03	0.0	0.0	0.0
273	06/17/2009 11:04	0.0	0.0	0.0
274	06/17/2009 11:05	0.0	0.0	0.0
275	06/17/2009 11:06	0.0	0.0	0.0
276	06/17/2009 11:07	0.0	0.0	0.0
277	06/17/2009 11:08	0.0	0.0	0.0
278	06/17/2009 11:09	0.0	0.0	0.0
279	06/17/2009 11:10	0.0	0.0	0.0
280	06/17/2009 11:11	0.0	0.0	0.0
281	06/17/2009 11:12	0.0	0.0	0.0
282	06/17/2009 11:13	0.0	0.0	0.0
283	06/17/2009 11:14	0.0	0.0	0.0
284	06/17/2009 11:15	0.0	0.0	0.0
285	06/17/2009 11:16	0.0	0.0	0.0
286	06/17/2009 11:17	0.0	0.0	0.0
287	06/17/2009 11:18	0.0	0.0	0.0
288	06/17/2009 11:19	0.0	0.0	0.0
289	06/17/2009 11:20	0.0	0.0	0.0
290	06/17/2009 11:21	0.0	0.0	0.0
291	06/17/2009 11:22	0.0	0.0	0.0
292	06/17/2009 11:23	0.0	0.0	0.0
293	06/17/2009 11:24	0.0	0.0	0.0
294	06/17/2009 11:25	0.0	0.0	0.0
295	06/17/2009 11:26	0.0	0.0	0.0
296	06/17/2009 11:27	0.0	0.0	0.0
297	06/17/2009 11:28	0.0	0.0	0.0
298	06/17/2009 11:29	0.0	0.0	0.0
299	06/17/2009 11:30	0.0	0.0	0.0
300	06/17/2009 11:31	0.0	0.0	0.0
301	06/17/2009 11:32	0.0	0.0	0.0

302	06/17/2009 11:33	0.0	0.0	0.0
303	06/17/2009 11:34	0.0	0.0	0.0
304	06/17/2009 11:35	0.0	0.0	0.0
305	06/17/2009 11:36	0.0	0.0	0.0
306	06/17/2009 11:37	0.0	0.0	0.0
307	06/17/2009 11:38	0.0	0.0	0.0
308	06/17/2009 11:39	0.0	0.0	0.0
309	06/17/2009 11:40	0.0	0.0	0.0
310	06/17/2009 11:41	0.0	0.0	0.0
311	06/17/2009 11:42	0.0	0.0	0.0
312	06/17/2009 11:43	0.0	0.0	0.0
313	06/17/2009 11:44	0.0	0.0	0.0
314	06/17/2009 11:45	0.0	0.0	0.0
315	06/17/2009 11:46	0.0	0.0	0.0
316	06/17/2009 11:47	0.0	0.0	0.0
317	06/17/2009 11:48	0.0	0.0	0.0
318	06/17/2009 11:49	0.0	0.0	0.0
319	06/17/2009 11:50	0.0	0.0	0.0
320	06/17/2009 11:51	0.0	0.0	0.0
321	06/17/2009 11:52	0.0	0.0	0.0
322	06/17/2009 11:53	0.0	0.0	0.0
323	06/17/2009 11:54	0.0	0.0	0.0
324	06/17/2009 11:55	0.0	0.0	0.0
325	06/17/2009 11:56	0.0	0.0	0.0
326	06/17/2009 11:57	0.0	0.0	0.0
327	06/17/2009 11:58	0.0	0.0	0.0
328	06/17/2009 11:59	0.0	0.0	0.0
329	06/17/2009 12:00	0.0	0.0	0.0
330	06/17/2009 12:01	0.0	0.0	0.0
331	06/17/2009 12:02	0.0	0.0	0.0
332	06/17/2009 12:03	0.0	0.0	0.0
333	06/17/2009 12:04	0.0	0.0	0.0
334	06/17/2009 12:05	0.0	0.0	0.0
335	06/17/2009 12:06	0.0	0.0	0.0
336	06/17/2009 12:07	0.0	0.0	0.0
337	06/17/2009 12:08	0.0	0.0	0.0
338	06/17/2009 12:09	0.0	0.0	0.0
339	06/17/2009 12:10	0.0	0.0	0.0
340	06/17/2009 12:11	0.0	0.0	0.0
341	06/17/2009 12:12	0.0	0.0	0.0
342	06/17/2009 12:13	0.0	0.0	0.0
343	06/17/2009 12:14	0.0	0.0	0.0
344	06/17/2009 12:15	0.0	0.0	0.0
345	06/17/2009 12:16	0.0	0.0	0.0
346	06/17/2009 12:17	0.0	0.0	0.0
347	06/17/2009 12:18	0.0	0.0	0.0
348	06/17/2009 12:19	0.0	0.0	0.0
349	06/17/2009 12:20	0.0	0.0	0.0
350	06/17/2009 12:21	0.0	0.0	0.0
351	06/17/2009 12:22	0.0	0.0	0.0
352	06/17/2009 12:23	0.0	0.0	0.0
353	06/17/2009 12:24	0.0	0.0	0.0

354	06/17/2009 12:25	0.0	0.0	0.0
355	06/17/2009 12:26	0.0	0.0	0.0
356	06/17/2009 12:27	0.0	0.0	0.0
357	06/17/2009 12:28	0.0	0.0	0.0
358	06/17/2009 12:29	0.0	0.0	0.0
359	06/17/2009 12:30	0.0	0.0	0.0
360	06/17/2009 12:31	0.0	0.0	0.0
361	06/17/2009 12:32	0.0	0.0	0.0
362	06/17/2009 12:33	0.0	0.0	0.0
363	06/17/2009 12:34	0.0	0.0	0.0
364	06/17/2009 12:35	0.0	0.0	0.0
365	06/17/2009 12:36	0.0	0.0	0.0
366	06/17/2009 12:37	0.0	0.0	0.0
367	06/17/2009 12:38	0.0	0.0	0.0
368	06/17/2009 12:39	0.0	0.0	0.0
369	06/17/2009 12:40	0.0	0.0	0.0
370	06/17/2009 12:41	0.0	0.0	0.0
371	06/17/2009 12:42	0.0	0.0	0.0
372	06/17/2009 12:43	0.0	0.0	0.0
373	06/17/2009 12:44	0.0	0.0	0.0
374	06/17/2009 12:45	0.0	0.0	0.0
375	06/17/2009 12:46	0.0	0.0	0.0
376	06/17/2009 12:47	0.0	0.0	0.0
377	06/17/2009 12:48	0.0	0.0	0.0
378	06/17/2009 12:49	0.0	0.0	0.0
379	06/17/2009 12:50	0.0	0.0	0.0
380	06/17/2009 12:51	0.0	0.0	0.0
381	06/17/2009 12:52	0.0	0.0	0.0
382	06/17/2009 12:53	0.0	0.0	0.0
383	06/17/2009 12:54	0.0	0.0	0.0
384	06/17/2009 12:55	0.0	0.0	0.0
385	06/17/2009 12:56	0.0	0.0	0.0
386	06/17/2009 12:57	0.0	0.0	0.0
387	06/17/2009 12:58	0.0	0.0	0.0
388	06/17/2009 12:59	0.0	0.0	0.0
389	06/17/2009 13:00	0.0	0.0	0.0
390	06/17/2009 13:01	0.0	0.0	0.0
391	06/17/2009 13:02	0.0	0.0	0.0
392	06/17/2009 13:03	0.0	0.0	0.0
393	06/17/2009 13:04	0.0	0.0	0.0
394	06/17/2009 13:05	0.0	0.0	0.0
395	06/17/2009 13:06	0.0	0.0	0.0
396	06/17/2009 13:07	0.0	0.0	0.0
397	06/17/2009 13:08	0.0	0.0	0.0
398	06/17/2009 13:09	0.0	0.0	0.0
399	06/17/2009 13:10	0.0	0.0	0.0
400	06/17/2009 13:11	0.0	0.0	0.0
401	06/17/2009 13:12	0.0	0.0	0.0
402	06/17/2009 13:13	0.0	0.0	0.0
403	06/17/2009 13:14	0.0	0.0	0.0
404	06/17/2009 13:15	0.0	0.0	0.0
405	06/17/2009 13:16	0.0	0.0	0.0

406	06/17/2009 13:17	0.0	0.0	0.0
407	06/17/2009 13:18	0.0	0.0	0.0
408	06/17/2009 13:19	0.0	0.0	0.0
409	06/17/2009 13:20	0.0	0.0	0.0
410	06/17/2009 13:21	0.0	0.0	0.0
411	06/17/2009 13:22	0.0	0.0	0.0
412	06/17/2009 13:23	0.0	0.0	0.0
413	06/17/2009 13:24	0.0	0.0	0.0
414	06/17/2009 13:25	0.0	0.0	0.0
415	06/17/2009 13:26	0.0	0.0	0.0
416	06/17/2009 13:27	0.0	0.0	0.0
417	06/17/2009 13:28	0.0	0.0	0.0
418	06/17/2009 13:29	0.0	0.0	0.0
419	06/17/2009 13:30	0.0	0.0	0.0
420	06/17/2009 13:31	0.0	0.0	0.0
421	06/17/2009 13:32	0.0	0.0	0.0
422	06/17/2009 13:33	0.0	0.0	0.0
423	06/17/2009 13:34	0.0	0.0	0.0
424	06/17/2009 13:35	0.0	0.0	0.0
425	06/17/2009 13:36	0.0	0.0	0.0
426	06/17/2009 13:37	0.0	0.0	0.0
427	06/17/2009 13:38	0.0	0.0	0.0
428	06/17/2009 13:39	0.0	0.0	0.0
429	06/17/2009 13:40	0.0	0.0	0.0
430	06/17/2009 13:41	0.0	0.0	0.0
431	06/17/2009 13:42	0.0	0.0	0.0
432	06/17/2009 13:43	0.0	0.0	0.0
433	06/17/2009 13:44	0.0	0.0	0.0
434	06/17/2009 13:45	0.0	0.0	0.0
435	06/17/2009 13:46	0.0	0.0	0.0
436	06/17/2009 13:47	0.0	0.0	0.0
437	06/17/2009 13:48	0.0	0.0	0.0
438	06/17/2009 13:49	0.0	0.0	0.0
439	06/17/2009 13:50	0.0	0.0	0.0
440	06/17/2009 13:51	0.0	0.0	0.0
441	06/17/2009 13:52	0.0	0.0	0.0
442	06/17/2009 13:53	0.0	0.0	0.0
443	06/17/2009 13:54	0.0	0.0	0.0
444	06/17/2009 13:55	0.0	0.0	0.0
445	06/17/2009 13:56	0.0	0.0	0.0
446	06/17/2009 13:57	0.0	0.0	0.0
447	06/17/2009 13:58	0.0	0.0	0.0
448	06/17/2009 13:59	0.0	0.0	0.0
449	06/17/2009 14:00	0.0	0.0	0.0
450	06/17/2009 14:01	0.0	0.0	0.0
451	06/17/2009 14:02	0.0	0.0	0.0
452	06/17/2009 14:03	0.0	0.0	0.0
453	06/17/2009 14:04	0.0	0.0	0.0
454	06/17/2009 14:05	0.0	0.0	0.0
455	06/17/2009 14:06	0.0	0.0	0.0
456	06/17/2009 14:07	0.0	0.0	0.0
457	06/17/2009 14:08	0.0	0.0	0.0

458	06/17/2009 14:09	0.0	0.0	0.0
459	06/17/2009 14:10	0.0	0.0	0.0
460	06/17/2009 14:11	0.0	0.0	0.0
461	06/17/2009 14:12	0.0	0.0	0.0
462	06/17/2009 14:13	0.0	0.0	0.0
463	06/17/2009 14:14	0.0	0.0	0.0
464	06/17/2009 14:15	0.0	0.0	0.0
465	06/17/2009 14:16	0.0	0.0	0.0
466	06/17/2009 14:17	0.0	0.0	0.0
467	06/17/2009 14:18	0.0	0.0	0.0
468	06/17/2009 14:19	0.0	0.0	0.0
469	06/17/2009 14:20	0.0	0.0	0.0
470	06/17/2009 14:21	0.0	0.0	0.0
471	06/17/2009 14:22	0.0	0.0	0.0
472	06/17/2009 14:23	0.0	0.0	0.0
473	06/17/2009 14:24	0.0	0.0	0.0
474	06/17/2009 14:25	0.0	0.0	0.0
475	06/17/2009 14:26	0.0	0.0	0.0
476	06/17/2009 14:27	0.0	0.0	0.0
477	06/17/2009 14:28	0.0	0.0	0.0
478	06/17/2009 14:29	0.0	0.0	0.0
479	06/17/2009 14:30	0.0	0.0	0.0
480	06/17/2009 14:31	0.0	0.0	0.0
481	06/17/2009 14:32	0.0	0.0	0.0
482	06/17/2009 14:33	0.0	0.0	0.0
483	06/17/2009 14:34	0.0	0.0	0.0
484	06/17/2009 14:35	0.0	0.0	0.0
485	06/17/2009 14:36	0.0	0.0	0.0
486	06/17/2009 14:37	0.0	0.0	0.0
487	06/17/2009 14:38	0.0	0.0	0.0
488	06/17/2009 14:39	0.0	0.0	0.0
489	06/17/2009 14:40	0.0	0.0	0.0
490	06/17/2009 14:41	0.0	0.0	0.0
491	06/17/2009 14:42	0.0	0.0	0.0
492	06/17/2009 14:43	0.0	0.0	0.0
493	06/17/2009 14:44	0.0	0.0	0.0
494	06/17/2009 14:45	0.0	0.0	0.0
495	06/17/2009 14:46	0.0	0.0	0.0
496	06/17/2009 14:47	0.0	0.0	0.0
497	06/17/2009 14:48	0.0	0.0	0.0
498	06/17/2009 14:49	0.0	0.0	0.0
499	06/17/2009 14:50	0.0	0.0	0.0
500	06/17/2009 14:51	0.0	0.0	0.0
501	06/17/2009 14:52	0.0	0.0	0.0
502	06/17/2009 14:53	0.0	0.0	0.0
503	06/17/2009 14:54	0.0	0.0	0.0
504	06/17/2009 14:55	0.0	0.0	0.0
505	06/17/2009 14:56	0.0	0.0	0.0
506	06/17/2009 14:57	0.0	0.0	0.0
507	06/17/2009 14:58	0.0	0.0	0.0
508	06/17/2009 14:59	0.0	0.0	0.0
509	06/17/2009 15:00	0.0	0.0	0.0

510	06/17/2009 15:01	0.0	0.0	0.0
511	06/17/2009 15:02	0.0	0.0	0.0
512	06/17/2009 15:03	0.0	0.0	0.0
513	06/17/2009 15:04	0.0	0.0	0.0
514	06/17/2009 15:05	0.0	0.0	0.0
515	06/17/2009 15:06	0.0	0.0	0.0
516	06/17/2009 15:07	0.0	0.0	0.0
517	06/17/2009 15:08	0.0	0.0	0.0
518	06/17/2009 15:09	0.0	0.0	0.0
519	06/17/2009 15:10	0.0	0.0	0.0
520	06/17/2009 15:11	0.0	0.0	0.0
521	06/17/2009 15:12	0.0	0.0	0.0
522	06/17/2009 15:13	0.0	0.0	0.0
523	06/17/2009 15:14	0.0	0.0	0.0
524	06/17/2009 15:15	0.0	0.0	0.0
525	06/17/2009 15:16	0.0	0.0	0.0
526	06/17/2009 15:17	0.0	0.0	0.0
527	06/17/2009 15:18	0.0	0.0	0.0
528	06/17/2009 15:19	0.0	0.0	0.0
529	06/17/2009 15:20	0.0	0.0	0.0
530	06/17/2009 15:21	0.0	0.0	0.0
531	06/17/2009 15:22	0.0	0.0	0.0
532	06/17/2009 15:23	0.0	0.0	0.0
533	06/17/2009 15:24	0.0	0.0	0.0
534	06/17/2009 15:25	0.0	0.0	0.0
535	06/17/2009 15:26	0.0	0.0	0.0
536	06/17/2009 15:27	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 320 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/18/2009 14:19

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/22/2009 10:15      0.0         0.0         0.0
2 06/22/2009 10:16      0.0         0.0         0.0
3 06/22/2009 10:17      0.0         0.0         0.0
4 06/22/2009 10:18      0.0         0.0         0.0
5 06/22/2009 10:19      0.0         0.0         0.0
6 06/22/2009 10:20      0.0         0.0         0.0
7 06/22/2009 10:21      0.0         0.0         0.0
8 06/22/2009 10:22      0.0         0.0         0.0
9 06/22/2009 10:23      0.0         0.0         0.0
10 06/22/2009 10:24      0.0         0.0         0.0
11 06/22/2009 10:25      0.0         0.0         0.0
12 06/22/2009 10:26      0.0         0.0         0.0
13 06/22/2009 10:27      0.0         0.0         0.0
14 06/22/2009 10:28      0.0         0.0         0.0
15 06/22/2009 10:29      0.0         0.0         0.0
16 06/22/2009 10:30      0.0         0.0         0.0
17 06/22/2009 10:31      0.0         0.0         0.0
18 06/22/2009 10:32      0.0         0.0         0.0
19 06/22/2009 10:33      0.0         0.0         0.0
20 06/22/2009 10:34      0.0         0.0         0.0
21 06/22/2009 10:35      0.0         0.0         0.0
22 06/22/2009 10:36      0.0         0.0         0.0
23 06/22/2009 10:37      0.0         0.0         0.0
24 06/22/2009 10:38      0.0         0.0         0.0
25 06/22/2009 10:39      0.0         0.0         0.0
26 06/22/2009 10:40      0.0         0.0         0.0
27 06/22/2009 10:41      0.0         0.0         0.0
28 06/22/2009 10:42      0.0         0.0         0.0
29 06/22/2009 10:43      0.0         0.0         0.0
30 06/22/2009 10:44      0.0         0.0         0.0
31 06/22/2009 10:45      0.0         0.0         0.0
32 06/22/2009 10:46      0.0         0.0         0.0
33 06/22/2009 10:47      0.0         0.0         0.0
34 06/22/2009 10:48      0.0         0.0         0.0
35 06/22/2009 10:49      0.0         0.0         0.0
36 06/22/2009 10:50      0.0         0.0         0.0
37 06/22/2009 10:51      0.0         0.0         0.0
38 06/22/2009 10:52      0.0         0.0         0.0
39 06/22/2009 10:53      0.0         0.0         0.0
40 06/22/2009 10:54      0.0         0.0         0.0
41 06/22/2009 10:55      0.0         0.0         0.0
```



42	06/22/2009 10:56	0.0	0.0	0.0
43	06/22/2009 10:57	0.0	0.0	0.0
44	06/22/2009 10:58	0.0	0.0	0.0
45	06/22/2009 10:59	0.0	0.0	0.0
46	06/22/2009 11:00	0.0	0.0	0.0
47	06/22/2009 11:01	0.0	0.0	0.0
48	06/22/2009 11:02	0.0	0.0	0.0
49	06/22/2009 11:03	0.0	0.0	0.0
50	06/22/2009 11:04	0.0	0.0	0.0
51	06/22/2009 11:05	0.0	0.0	0.0
52	06/22/2009 11:06	0.0	0.0	0.0
53	06/22/2009 11:07	0.0	0.0	0.0
54	06/22/2009 11:08	0.0	0.0	0.0
55	06/22/2009 11:09	0.0	0.0	0.0
56	06/22/2009 11:10	0.0	0.0	0.0
57	06/22/2009 11:11	0.0	0.0	0.3
58	06/22/2009 11:12	0.0	0.0	1.1
59	06/22/2009 11:13	0.0	0.0	0.0
60	06/22/2009 11:14	0.0	0.0	0.0
61	06/22/2009 11:15	0.0	0.0	0.0
62	06/22/2009 11:16	0.0	0.0	0.0
63	06/22/2009 11:17	0.0	0.0	0.0
64	06/22/2009 11:18	0.0	0.0	0.0
65	06/22/2009 11:19	0.0	0.0	0.0
66	06/22/2009 11:20	0.0	0.0	0.0
67	06/22/2009 11:21	0.0	0.0	0.0
68	06/22/2009 11:22	0.0	0.0	0.0
69	06/22/2009 11:23	0.0	0.0	0.0
70	06/22/2009 11:24	0.0	0.0	0.0
71	06/22/2009 11:25	0.0	0.0	0.0
72	06/22/2009 11:26	0.0	0.0	0.0
73	06/22/2009 11:27	0.0	0.0	0.0
74	06/22/2009 11:28	0.0	0.0	0.0
75	06/22/2009 11:29	0.0	0.0	0.5
76	06/22/2009 11:30	0.0	0.0	0.0
77	06/22/2009 11:31	0.0	0.0	0.0
78	06/22/2009 11:32	0.0	0.0	0.0
79	06/22/2009 11:33	0.0	0.0	0.0
80	06/22/2009 11:34	0.0	0.0	0.0
81	06/22/2009 11:35	0.0	0.0	0.0
82	06/22/2009 11:36	0.0	0.0	0.0
83	06/22/2009 11:37	0.0	0.0	0.0
84	06/22/2009 11:38	0.0	0.0	0.0
85	06/22/2009 11:39	0.0	0.0	0.0
86	06/22/2009 11:40	0.0	0.0	0.0
87	06/22/2009 11:41	0.0	0.0	0.0
88	06/22/2009 11:42	0.0	0.0	0.0
89	06/22/2009 11:43	0.0	0.0	0.0
90	06/22/2009 11:44	0.0	0.0	0.0
91	06/22/2009 11:45	0.0	0.0	0.0
92	06/22/2009 11:46	0.0	0.0	0.0
93	06/22/2009 11:47	0.0	0.0	0.0

94	06/22/2009 11:48	0.0	0.0	0.0
95	06/22/2009 11:49	0.0	0.0	0.0
96	06/22/2009 11:50	0.0	0.0	0.0
97	06/22/2009 11:51	0.0	0.0	0.0
98	06/22/2009 11:52	0.0	0.0	0.0
99	06/22/2009 11:53	0.0	0.0	0.0
100	06/22/2009 11:54	0.0	0.0	0.0
101	06/22/2009 11:55	0.0	0.0	0.0
102	06/22/2009 11:56	0.0	0.0	0.0
103	06/22/2009 11:57	0.0	0.0	0.0
104	06/22/2009 11:58	0.0	0.0	0.0
105	06/22/2009 11:59	0.0	0.0	0.0
106	06/22/2009 12:00	0.0	0.0	0.0
107	06/22/2009 12:01	0.0	0.0	0.0
108	06/22/2009 12:02	0.0	0.0	0.0
109	06/22/2009 12:03	0.0	0.0	0.0
110	06/22/2009 12:04	0.0	0.0	0.0
111	06/22/2009 12:05	0.0	0.0	0.0
112	06/22/2009 12:06	0.0	0.0	0.0
113	06/22/2009 12:07	0.0	0.0	0.0
114	06/22/2009 12:08	0.0	0.0	0.0
115	06/22/2009 12:09	0.0	0.0	0.0
116	06/22/2009 12:10	0.0	0.0	0.0
117	06/22/2009 12:11	0.0	0.0	0.0
118	06/22/2009 12:12	0.0	0.0	0.0
119	06/22/2009 12:13	0.0	0.0	0.0
120	06/22/2009 12:14	0.0	0.0	0.0
121	06/22/2009 12:15	0.0	0.0	0.0
122	06/22/2009 12:16	0.0	0.0	0.0
123	06/22/2009 12:17	0.0	0.0	0.0
124	06/22/2009 12:18	0.0	0.0	0.0
125	06/22/2009 12:19	0.0	0.0	0.0
126	06/22/2009 12:20	0.0	0.0	0.0
127	06/22/2009 12:21	0.0	0.0	0.0
128	06/22/2009 12:22	0.0	0.0	0.0
129	06/22/2009 12:23	0.0	0.0	0.0
130	06/22/2009 12:24	0.0	0.0	0.0
131	06/22/2009 12:25	0.0	0.0	0.0
132	06/22/2009 12:26	0.0	0.0	0.0
133	06/22/2009 12:27	0.0	0.0	0.0
134	06/22/2009 12:28	0.0	0.1	1.1
135	06/22/2009 12:29	0.0	0.0	0.0
136	06/22/2009 12:30	0.0	0.0	0.0
137	06/22/2009 12:31	0.0	0.0	0.0
138	06/22/2009 12:32	0.0	0.0	0.0
139	06/22/2009 12:33	0.0	0.0	0.0
140	06/22/2009 12:34	0.0	0.0	0.0
141	06/22/2009 12:35	0.0	0.0	0.0
142	06/22/2009 12:36	0.0	0.0	0.0
143	06/22/2009 12:37	0.0	0.0	0.0
144	06/22/2009 12:38	0.0	0.0	0.0
145	06/22/2009 12:39	0.0	0.0	0.0

146	06/22/2009 12:40	0.0	0.0	0.0
147	06/22/2009 12:41	0.0	0.0	0.0
148	06/22/2009 12:42	0.0	0.0	0.0
149	06/22/2009 12:43	0.0	0.0	0.0
150	06/22/2009 12:44	0.0	0.0	0.0
151	06/22/2009 12:45	0.0	0.0	0.0
152	06/22/2009 12:46	0.0	0.0	0.6
153	06/22/2009 12:47	0.0	0.1	1.2
154	06/22/2009 12:48	0.0	0.0	0.1
155	06/22/2009 12:49	0.0	0.0	0.0
156	06/22/2009 12:50	0.0	0.0	0.0
157	06/22/2009 12:51	0.0	0.3	1.1
158	06/22/2009 12:52	0.0	0.0	0.1
159	06/22/2009 12:53	0.0	0.1	2.0
160	06/22/2009 12:54	0.0	0.0	0.0
161	06/22/2009 12:55	0.0	0.0	0.0
162	06/22/2009 12:56	0.0	0.0	0.1
163	06/22/2009 12:57	0.0	0.0	0.2
164	06/22/2009 12:58	0.0	0.0	0.1
165	06/22/2009 12:59	0.0	0.0	0.1
166	06/22/2009 13:00	0.0	0.2	1.4
167	06/22/2009 13:01	0.0	0.0	0.1
168	06/22/2009 13:02	0.0	0.1	1.1
169	06/22/2009 13:03	0.0	0.1	0.5
170	06/22/2009 13:04	0.0	0.0	0.2
171	06/22/2009 13:05	0.0	0.0	0.2
172	06/22/2009 13:06	0.0	0.0	0.0
173	06/22/2009 13:07	0.0	0.0	0.1
174	06/22/2009 13:08	0.0	0.0	0.0
175	06/22/2009 13:09	0.0	0.0	0.1
176	06/22/2009 13:10	0.0	0.0	0.0
177	06/22/2009 13:11	0.0	0.7	4.0
178	06/22/2009 13:12	0.0	0.0	0.1
179	06/22/2009 13:13	0.0	0.0	0.0
180	06/22/2009 13:14	0.0	0.3	2.4
181	06/22/2009 13:15	0.1	1.4	3.8
182	06/22/2009 13:16	0.0	0.0	0.7
183	06/22/2009 13:17	0.0	0.0	0.0
184	06/22/2009 13:18	0.0	0.0	0.0
185	06/22/2009 13:19	0.0	0.0	0.0
186	06/22/2009 13:20	0.0	0.0	0.1
187	06/22/2009 13:21	0.0	0.0	0.1
188	06/22/2009 13:22	0.0	0.0	0.1
189	06/22/2009 13:23	0.0	0.0	0.0
190	06/22/2009 13:24	0.0	0.0	0.1
191	06/22/2009 13:25	0.0	0.0	0.1
192	06/22/2009 13:26	0.0	0.0	0.1
193	06/22/2009 13:27	0.0	0.0	0.1
194	06/22/2009 13:28	0.0	0.0	0.1
195	06/22/2009 13:29	0.0	0.0	0.1
196	06/22/2009 13:30	0.0	0.0	0.1
197	06/22/2009 13:31	0.0	0.0	0.1

198	06/22/2009 13:32	0.0	0.0	0.1
199	06/22/2009 13:33	0.0	0.0	0.1
200	06/22/2009 13:34	0.0	0.0	0.1
201	06/22/2009 13:35	0.0	0.0	0.1
202	06/22/2009 13:36	0.0	0.0	0.2
203	06/22/2009 13:37	0.0	0.0	0.1
204	06/22/2009 13:38	0.0	0.0	0.3
205	06/22/2009 13:39	0.0	0.0	0.1
206	06/22/2009 13:40	0.0	0.0	0.1
207	06/22/2009 13:41	0.0	0.0	0.3
208	06/22/2009 13:42	0.0	0.1	0.5
209	06/22/2009 13:43	0.0	0.0	0.1
210	06/22/2009 13:44	0.0	0.0	0.0
211	06/22/2009 13:45	0.0	0.0	0.0
212	06/22/2009 13:46	0.0	0.0	0.1
213	06/22/2009 13:47	0.0	0.0	0.1
214	06/22/2009 13:48	0.0	0.0	0.3
215	06/22/2009 13:49	0.0	0.2	1.7
216	06/22/2009 13:50	0.0	0.0	0.1
217	06/22/2009 13:51	0.0	0.0	0.2
218	06/22/2009 13:52	0.0	0.3	3.3
219	06/22/2009 13:53	0.0	0.0	0.2
220	06/22/2009 13:54	0.0	0.0	0.1
221	06/22/2009 13:55	0.0	0.0	0.0
222	06/22/2009 13:56	0.0	0.0	0.0
223	06/22/2009 13:57	0.0	0.0	0.3
224	06/22/2009 13:58	0.0	0.0	0.3
225	06/22/2009 13:59	0.0	0.0	0.3
226	06/22/2009 14:00	0.0	0.0	0.1
227	06/22/2009 14:01	0.0	0.2	0.6
228	06/22/2009 14:02	0.0	0.0	0.4
229	06/22/2009 14:03	0.0	0.4	2.3
230	06/22/2009 14:04	0.0	0.2	0.7
231	06/22/2009 14:05	0.0	0.0	0.1
232	06/22/2009 14:06	0.0	0.2	1.2
233	06/22/2009 14:07	0.0	0.0	0.1
234	06/22/2009 14:08	0.0	0.0	0.1
235	06/22/2009 14:09	0.0	0.0	0.1
236	06/22/2009 14:10	0.0	0.1	0.2
237	06/22/2009 14:11	0.0	0.1	1.6
238	06/22/2009 14:12	0.0	0.0	0.2
239	06/22/2009 14:13	0.0	0.0	0.1
240	06/22/2009 14:14	0.0	0.0	0.1
241	06/22/2009 14:15	0.0	0.0	0.1
242	06/22/2009 14:16	0.0	0.1	0.6
243	06/22/2009 14:17	0.0	0.6	2.7
244	06/22/2009 14:18	0.0	0.2	0.7
245	06/22/2009 14:19	0.0	0.2	1.8
246	06/22/2009 14:20	0.0	0.1	0.2
247	06/22/2009 14:21	0.0	0.0	0.2
248	06/22/2009 14:22	0.0	0.1	0.3
249	06/22/2009 14:23	0.0	0.1	0.5

250	06/22/2009 14:24	0.0	0.1	0.2
251	06/22/2009 14:25	0.0	0.0	0.2
252	06/22/2009 14:26	0.0	0.0	0.2
253	06/22/2009 14:27	0.0	0.0	0.1
254	06/22/2009 14:28	0.0	0.0	0.1
255	06/22/2009 14:29	0.0	0.0	0.2
256	06/22/2009 14:30	0.0	0.0	0.2
257	06/22/2009 14:31	0.0	0.0	0.1
258	06/22/2009 14:32	0.0	0.1	0.3
259	06/22/2009 14:33	0.0	0.0	0.2
260	06/22/2009 14:34	0.0	0.1	0.5
261	06/22/2009 14:35	0.0	0.0	0.2
262	06/22/2009 14:36	0.0	0.0	0.5
263	06/22/2009 14:37	0.0	0.0	0.2
264	06/22/2009 14:38	0.0	0.0	0.1
265	06/22/2009 14:39	0.0	0.3	1.6
266	06/22/2009 14:40	0.0	0.1	0.3
267	06/22/2009 14:41	0.0	0.1	0.6
268	06/22/2009 14:42	0.0	0.0	0.2
269	06/22/2009 14:43	0.0	0.0	0.2
270	06/22/2009 14:44	0.0	0.0	0.1
271	06/22/2009 14:45	0.0	0.0	0.3
272	06/22/2009 14:46	0.0	0.0	0.5
273	06/22/2009 14:47	0.0	0.0	0.1
274	06/22/2009 14:48	0.0	0.0	0.3
275	06/22/2009 14:49	0.0	0.1	1.1
276	06/22/2009 14:50	0.1	0.3	1.3
277	06/22/2009 14:51	0.0	0.0	0.2
278	06/22/2009 14:52	0.0	0.0	0.2
279	06/22/2009 14:53	0.0	0.0	0.1
280	06/22/2009 14:54	0.0	0.0	0.1
281	06/22/2009 14:55	0.0	0.0	0.1
282	06/22/2009 14:56	0.0	0.0	0.1
283	06/22/2009 14:57	0.0	0.0	0.1
284	06/22/2009 14:58	0.0	0.0	0.4
285	06/22/2009 14:59	0.0	0.1	0.3
286	06/22/2009 15:00	0.0	0.0	0.2
287	06/22/2009 15:01	0.0	0.0	0.1
288	06/22/2009 15:02	0.0	0.0	0.1
289	06/22/2009 15:03	0.0	0.0	0.6
290	06/22/2009 15:04	0.0	0.0	0.1
291	06/22/2009 15:05	0.0	0.0	0.3
292	06/22/2009 15:06	0.0	0.0	0.2
293	06/22/2009 15:07	0.0	0.0	0.1
294	06/22/2009 15:08	0.0	0.0	0.1
295	06/22/2009 15:09	0.0	0.0	0.2
296	06/22/2009 15:10	0.0	0.0	0.2
297	06/22/2009 15:11	0.0	0.0	0.1
298	06/22/2009 15:12	0.0	0.0	0.3
299	06/22/2009 15:13	0.0	0.0	0.1
300	06/22/2009 15:14	0.0	0.0	0.3
301	06/22/2009 15:15	0.0	0.0	0.1

302	06/22/2009 15:16	0.0	0.0	0.1
303	06/22/2009 15:17	0.0	0.0	0.1
304	06/22/2009 15:18	0.0	0.0	0.1
305	06/22/2009 15:19	0.0	0.0	0.1
306	06/22/2009 15:20	0.0	0.0	0.1
307	06/22/2009 15:21	0.0	0.0	0.2
308	06/22/2009 15:22	0.0	0.1	0.3
309	06/22/2009 15:23	0.0	0.0	0.3
310	06/22/2009 15:24	0.0	0.0	0.1
311	06/22/2009 15:25	0.0	0.0	0.2
312	06/22/2009 15:26	0.0	0.0	0.2
313	06/22/2009 15:27	0.0	0.0	0.1
314	06/22/2009 15:28	0.0	0.0	0.1
315	06/22/2009 15:29	0.0	0.0	0.2
316	06/22/2009 15:30	0.0	0.0	0.2
317	06/22/2009 15:31	0.0	0.0	0.1
318	06/22/2009 15:32	0.0	0.0	0.1
319	06/22/2009 15:33	0.0	0.0	0.1
320	06/22/2009 15:34	0.0	0.0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 448 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

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=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
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=====
Line#   Date Time      Min(ppm)      Avg(ppm)      Max(ppm)
=====
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1	06/22/2009 08:06	0.0	0.0	0.0
2	06/22/2009 08:07	0.0	0.0	0.0
3	06/22/2009 08:08	0.0	0.0	0.0
4	06/22/2009 08:09	0.0	0.0	0.0
5	06/22/2009 08:10	0.0	0.0	0.1
6	06/22/2009 08:11	0.0	0.0	0.0
7	06/22/2009 08:12	0.0	0.0	0.0
8	06/22/2009 08:13	0.0	0.0	0.0
9	06/22/2009 08:14	0.0	0.0	0.1
10	06/22/2009 08:15	0.0	0.0	0.1
11	06/22/2009 08:16	0.0	0.0	0.0
12	06/22/2009 08:17	0.0	0.0	0.0
13	06/22/2009 08:18	0.0	0.0	0.0
14	06/22/2009 08:19	0.0	0.0	0.0
15	06/22/2009 08:20	0.0	0.0	0.0
16	06/22/2009 08:21	0.0	0.0	0.0
17	06/22/2009 08:22	0.0	0.0	0.0
18	06/22/2009 08:23	0.0	0.0	0.0
19	06/22/2009 08:24	0.0	0.0	0.0
20	06/22/2009 08:25	0.0	0.0	0.0
21	06/22/2009 08:26	0.0	0.0	0.0
22	06/22/2009 08:27	0.0	0.0	0.0
23	06/22/2009 08:28	0.0	0.0	0.0
24	06/22/2009 08:29	0.0	0.0	0.0
25	06/22/2009 08:30	0.0	0.0	0.0
26	06/22/2009 08:31	0.0	0.0	0.0
27	06/22/2009 08:32	0.0	0.0	0.0
28	06/22/2009 08:33	0.0	0.0	0.0
29	06/22/2009 08:34	0.0	0.0	0.0
30	06/22/2009 08:35	0.0	0.0	0.0
31	06/22/2009 08:36	0.0	0.0	0.0
32	06/22/2009 08:37	0.0	0.0	0.0
33	06/22/2009 08:38	0.0	0.0	0.0
34	06/22/2009 08:39	0.0	0.0	0.0
35	06/22/2009 08:40	0.0	0.0	0.0
36	06/22/2009 08:41	0.0	0.0	0.0
37	06/22/2009 08:42	0.0	0.0	0.0
38	06/22/2009 08:43	0.0	0.0	0.0
39	06/22/2009 08:44	0.0	0.0	0.0
40	06/22/2009 08:45	0.0	0.0	0.0
41	06/22/2009 08:46	0.0	0.0	0.0

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42	06/22/2009 08:47	0.0	0.0	0.0
43	06/22/2009 08:48	0.0	0.0	0.0
44	06/22/2009 08:49	0.0	0.0	0.0
45	06/22/2009 08:50	0.0	0.0	0.0
46	06/22/2009 08:51	0.0	0.0	0.0
47	06/22/2009 08:52	0.0	0.0	0.0
48	06/22/2009 08:53	0.0	0.0	0.0
49	06/22/2009 08:54	0.0	0.0	0.0
50	06/22/2009 08:55	0.0	0.0	0.0
51	06/22/2009 08:56	0.0	0.0	0.0
52	06/22/2009 08:57	0.0	0.0	0.1
53	06/22/2009 08:58	0.0	0.0	0.1
54	06/22/2009 08:59	0.0	0.0	0.1
55	06/22/2009 09:00	0.0	0.0	0.1
56	06/22/2009 09:01	0.0	0.0	0.1
57	06/22/2009 09:02	0.0	0.0	0.1
58	06/22/2009 09:03	0.0	0.0	0.1
59	06/22/2009 09:04	0.1	0.1	0.1
60	06/22/2009 09:05	0.1	0.1	0.1
61	06/22/2009 09:06	0.1	0.1	0.1
62	06/22/2009 09:07	0.1	0.1	0.1
63	06/22/2009 09:08	0.1	0.1	0.1
64	06/22/2009 09:09	0.1	0.1	0.1
65	06/22/2009 09:10	0.1	0.1	0.1
66	06/22/2009 09:11	0.1	0.1	0.1
67	06/22/2009 09:12	0.1	0.1	0.1
68	06/22/2009 09:13	0.1	0.1	0.1
69	06/22/2009 09:14	0.1	0.1	0.1
70	06/22/2009 09:15	0.1	0.1	0.1
71	06/22/2009 09:16	0.1	0.1	0.1
72	06/22/2009 09:17	0.1	0.1	0.1
73	06/22/2009 09:18	0.1	0.1	0.1
74	06/22/2009 09:19	0.1	0.1	0.1
75	06/22/2009 09:20	0.1	0.1	0.1
76	06/22/2009 09:21	0.1	0.1	0.1
77	06/22/2009 09:22	0.1	0.1	0.1
78	06/22/2009 09:23	0.1	0.1	0.1
79	06/22/2009 09:24	0.1	0.1	0.1
80	06/22/2009 09:25	0.1	0.1	0.1
81	06/22/2009 09:26	0.1	0.1	0.1
82	06/22/2009 09:27	0.1	0.1	0.1
83	06/22/2009 09:28	0.1	0.1	0.2
84	06/22/2009 09:29	0.1	0.1	0.2
85	06/22/2009 09:30	0.1	0.1	0.2
86	06/22/2009 09:31	0.1	0.1	0.2
87	06/22/2009 09:32	0.1	0.1	0.2
88	06/22/2009 09:33	0.1	0.1	0.2
89	06/22/2009 09:34	0.1	0.1	0.2
90	06/22/2009 09:35	0.2	0.2	0.2
91	06/22/2009 09:36	0.1	0.1	0.2
92	06/22/2009 09:37	0.1	0.1	0.2
93	06/22/2009 09:38	0.2	0.2	0.2



94	06/22/2009 09:39	0.2	0.2	0.2
95	06/22/2009 09:40	0.2	0.2	0.2
96	06/22/2009 09:41	0.2	0.2	0.2
97	06/22/2009 09:42	0.2	0.2	0.2
98	06/22/2009 09:43	0.2	0.2	0.2
99	06/22/2009 09:44	0.2	0.2	0.2
100	06/22/2009 09:45	0.2	0.2	0.2
101	06/22/2009 09:46	0.2	0.2	0.2
102	06/22/2009 09:47	0.2	0.2	0.2
103	06/22/2009 09:48	0.2	0.2	0.2
104	06/22/2009 09:49	0.2	0.2	0.2
105	06/22/2009 09:50	0.2	0.2	0.2
106	06/22/2009 09:51	0.2	0.2	0.2
107	06/22/2009 09:52	0.2	0.2	0.2
108	06/22/2009 09:53	0.2	0.2	0.2
109	06/22/2009 09:54	0.2	0.2	0.2
110	06/22/2009 09:55	0.2	0.2	0.2
111	06/22/2009 09:56	0.2	0.2	0.2
112	06/22/2009 09:57	0.2	0.2	0.2
113	06/22/2009 09:58	0.2	0.2	0.2
114	06/22/2009 09:59	0.2	0.2	0.2
115	06/22/2009 10:00	0.2	0.2	0.2
116	06/22/2009 10:01	0.2	0.2	0.2
117	06/22/2009 10:02	0.2	0.2	0.2
118	06/22/2009 10:03	0.2	0.2	0.2
119	06/22/2009 10:04	0.2	0.2	0.2
120	06/22/2009 10:05	0.2	0.2	0.2
121	06/22/2009 10:06	0.2	0.2	0.2
122	06/22/2009 10:07	0.2	0.2	0.2
123	06/22/2009 10:08	0.2	0.2	0.2
124	06/22/2009 10:09	0.2	0.2	0.3
125	06/22/2009 10:10	0.2	0.2	0.3
126	06/22/2009 10:11	0.2	0.2	0.3
127	06/22/2009 10:12	0.2	0.2	0.3
128	06/22/2009 10:13	0.2	0.2	0.3
129	06/22/2009 10:14	0.2	0.2	0.3
130	06/22/2009 10:15	0.2	0.2	0.3
131	06/22/2009 10:16	0.2	0.2	0.3
132	06/22/2009 10:17	0.2	0.2	0.3
133	06/22/2009 10:18	0.2	0.2	0.3
134	06/22/2009 10:19	0.2	0.2	0.3
135	06/22/2009 10:20	0.2	0.2	0.3
136	06/22/2009 10:21	0.2	0.2	0.3
137	06/22/2009 10:22	0.2	0.2	0.3
138	06/22/2009 10:23	0.2	0.2	0.3
139	06/22/2009 10:24	0.2	0.2	0.3
140	06/22/2009 10:25	0.2	0.2	0.3
141	06/22/2009 10:26	0.2	0.2	0.3
142	06/22/2009 10:27	0.3	0.3	0.3
143	06/22/2009 10:28	0.3	0.3	0.3
144	06/22/2009 10:29	0.3	0.3	0.3
145	06/22/2009 10:30	0.3	0.3	0.3

146	06/22/2009 10:31	0.3	0.3	0.3
147	06/22/2009 10:32	0.3	0.3	0.3
148	06/22/2009 10:33	0.3	0.3	0.3
149	06/22/2009 10:34	0.3	0.3	0.3
150	06/22/2009 10:35	0.3	0.3	0.3
151	06/22/2009 10:36	0.3	0.3	0.3
152	06/22/2009 10:37	0.3	0.3	0.3
153	06/22/2009 10:38	0.3	0.3	0.3
154	06/22/2009 10:39	0.3	0.3	0.3
155	06/22/2009 10:40	0.3	0.3	0.3
156	06/22/2009 10:41	0.3	0.3	0.3
157	06/22/2009 10:42	0.3	0.3	0.3
158	06/22/2009 10:43	0.3	0.3	0.3
159	06/22/2009 10:44	0.3	0.3	0.3
160	06/22/2009 10:45	0.3	0.3	0.3
161	06/22/2009 10:46	0.3	0.3	0.3
162	06/22/2009 10:47	0.3	0.3	0.3
163	06/22/2009 10:48	0.3	0.3	0.3
164	06/22/2009 10:49	0.3	0.3	0.3
165	06/22/2009 10:50	0.3	0.3	0.3
166	06/22/2009 10:51	0.3	0.3	0.3
167	06/22/2009 10:52	0.3	0.3	0.3
168	06/22/2009 10:53	0.3	0.3	0.3
169	06/22/2009 10:54	0.3	0.3	0.3
170	06/22/2009 10:55	0.3	0.3	0.4
171	06/22/2009 10:56	0.3	0.3	0.3
172	06/22/2009 10:57	0.3	0.3	0.3
173	06/22/2009 10:58	0.3	0.3	0.3
174	06/22/2009 10:59	0.3	0.3	0.3
175	06/22/2009 11:00	0.3	0.3	0.3
176	06/22/2009 11:01	0.3	0.3	0.3
177	06/22/2009 11:02	0.3	0.3	0.3
178	06/22/2009 11:03	0.3	0.3	0.3
179	06/22/2009 11:04	0.3	0.3	0.3
180	06/22/2009 11:05	0.3	0.3	0.3
181	06/22/2009 11:06	0.3	0.3	0.3
182	06/22/2009 11:07	0.3	0.3	0.3
183	06/22/2009 11:08	0.3	0.3	0.3
184	06/22/2009 11:09	0.3	0.3	0.3
185	06/22/2009 11:10	0.3	0.3	0.3
186	06/22/2009 11:11	0.3	0.3	0.3
187	06/22/2009 11:12	0.3	0.3	0.3
188	06/22/2009 11:13	0.3	0.3	0.3
189	06/22/2009 11:14	0.3	0.3	0.3
190	06/22/2009 11:15	0.3	0.3	0.3
191	06/22/2009 11:16	0.3	0.3	0.3
192	06/22/2009 11:17	0.3	0.3	0.3
193	06/22/2009 11:18	0.3	0.3	0.3
194	06/22/2009 11:19	0.3	0.3	0.3
195	06/22/2009 11:20	0.3	0.3	0.3
196	06/22/2009 11:21	0.3	0.3	0.3
197	06/22/2009 11:22	0.3	0.3	0.3

198	06/22/2009 11:23	0.3	0.3	0.3
199	06/22/2009 11:24	0.3	0.3	0.3
200	06/22/2009 11:25	0.3	0.3	0.3
201	06/22/2009 11:26	0.3	0.3	0.4
202	06/22/2009 11:27	0.3	0.3	0.4
203	06/22/2009 11:28	0.3	0.3	0.4
204	06/22/2009 11:29	0.3	0.3	0.4
205	06/22/2009 11:30	0.3	0.3	0.4
206	06/22/2009 11:31	0.3	0.3	0.4
207	06/22/2009 11:32	0.3	0.3	0.4
208	06/22/2009 11:33	0.3	0.3	0.4
209	06/22/2009 11:34	0.3	0.3	0.4
210	06/22/2009 11:35	0.3	0.3	0.4
211	06/22/2009 11:36	0.3	0.3	0.4
212	06/22/2009 11:37	0.3	0.3	0.4
213	06/22/2009 11:38	0.3	0.3	0.4
214	06/22/2009 11:39	0.3	0.3	0.4
215	06/22/2009 11:40	0.3	0.3	0.4
216	06/22/2009 11:41	0.3	0.3	0.4
217	06/22/2009 11:42	0.3	0.3	0.4
218	06/22/2009 11:43	0.3	0.3	0.4
219	06/22/2009 11:44	0.3	0.3	0.4
220	06/22/2009 11:45	0.3	0.3	0.4
221	06/22/2009 11:46	0.3	0.3	0.4
222	06/22/2009 11:47	0.3	0.3	0.4
223	06/22/2009 11:48	0.3	0.3	0.4
224	06/22/2009 11:49	0.3	0.3	0.4
225	06/22/2009 11:50	0.3	0.3	0.4
226	06/22/2009 11:51	0.3	0.3	0.4
227	06/22/2009 11:52	0.3	0.3	0.4
228	06/22/2009 11:53	0.4	0.4	0.4
229	06/22/2009 11:54	0.3	0.3	0.4
230	06/22/2009 11:55	0.4	0.4	0.4
231	06/22/2009 11:56	0.3	0.3	0.4
232	06/22/2009 11:57	0.4	0.4	0.4
233	06/22/2009 11:58	0.4	0.4	0.4
234	06/22/2009 11:59	0.3	0.3	0.4
235	06/22/2009 12:00	0.4	0.4	0.4
236	06/22/2009 12:01	0.3	0.3	0.4
237	06/22/2009 12:02	0.4	0.4	0.4
238	06/22/2009 12:03	0.4	0.4	0.4
239	06/22/2009 12:04	0.4	0.4	0.4
240	06/22/2009 12:05	0.4	0.4	0.4
241	06/22/2009 12:06	0.4	0.4	0.4
242	06/22/2009 12:07	0.4	0.4	0.4
243	06/22/2009 12:08	0.4	0.4	0.4
244	06/22/2009 12:09	0.4	0.4	0.4
245	06/22/2009 12:10	0.4	0.4	0.4
246	06/22/2009 12:11	0.4	0.4	0.4
247	06/22/2009 12:12	0.4	0.4	0.4
248	06/22/2009 12:13	0.4	0.4	0.4
249	06/22/2009 12:14	0.4	0.4	0.4

250	06/22/2009 12:15	0.4	0.4	0.4
251	06/22/2009 12:16	0.4	0.4	0.4
252	06/22/2009 12:17	0.4	0.4	0.4
253	06/22/2009 12:18	0.4	0.4	0.4
254	06/22/2009 12:19	0.4	0.4	0.4
255	06/22/2009 12:20	0.4	0.4	0.4
256	06/22/2009 12:21	0.4	0.4	0.4
257	06/22/2009 12:22	0.4	0.4	0.4
258	06/22/2009 12:23	0.4	0.4	0.4
259	06/22/2009 12:24	0.4	0.4	0.4
260	06/22/2009 12:25	0.4	0.4	0.4
261	06/22/2009 12:26	0.4	0.4	0.4
262	06/22/2009 12:27	0.4	0.4	0.4
263	06/22/2009 12:28	0.4	0.4	0.4
264	06/22/2009 12:29	0.4	0.4	0.4
265	06/22/2009 12:30	0.4	0.4	0.5
266	06/22/2009 12:31	0.4	0.4	0.4
267	06/22/2009 12:32	0.4	0.4	0.4
268	06/22/2009 12:33	0.4	0.4	0.4
269	06/22/2009 12:34	0.4	0.4	0.4
270	06/22/2009 12:35	0.4	0.4	0.4
271	06/22/2009 12:36	0.4	0.4	0.4
272	06/22/2009 12:37	0.4	0.4	0.4
273	06/22/2009 12:38	0.4	0.4	0.4
274	06/22/2009 12:39	0.4	0.4	0.4
275	06/22/2009 12:40	0.4	0.4	0.4
276	06/22/2009 12:41	0.4	0.4	0.4
277	06/22/2009 12:42	0.4	0.4	0.4
278	06/22/2009 12:43	0.4	0.4	0.4
279	06/22/2009 12:44	0.4	0.4	0.4
280	06/22/2009 12:45	0.4	0.4	0.4
281	06/22/2009 12:46	0.4	0.4	0.4
282	06/22/2009 12:47	0.4	0.4	0.4
283	06/22/2009 12:48	0.4	0.4	0.4
284	06/22/2009 12:49	0.4	0.4	0.4
285	06/22/2009 12:50	0.4	0.4	0.4
286	06/22/2009 12:51	0.4	0.4	0.5
287	06/22/2009 12:52	0.4	0.4	0.5
288	06/22/2009 12:53	0.4	0.4	0.4
289	06/22/2009 12:54	0.4	0.4	0.4
290	06/22/2009 12:55	0.4	0.4	0.4
291	06/22/2009 12:56	0.4	0.4	0.4
292	06/22/2009 12:57	0.4	0.4	0.4
293	06/22/2009 12:58	0.4	0.4	0.4
294	06/22/2009 12:59	0.4	0.4	0.5
295	06/22/2009 13:00	0.4	0.4	0.4
296	06/22/2009 13:01	0.4	0.4	0.4
297	06/22/2009 13:02	0.4	0.4	0.7
298	06/22/2009 13:03	0.4	0.4	0.6
299	06/22/2009 13:04	0.4	0.4	0.5
300	06/22/2009 13:05	0.4	0.4	0.5
301	06/22/2009 13:06	0.4	0.6	0.7

302	06/22/2009 13:07	0.4	0.4	0.5
303	06/22/2009 13:08	0.4	0.4	0.4
304	06/22/2009 13:09	0.4	0.4	0.5
305	06/22/2009 13:10	0.4	0.4	0.5
306	06/22/2009 13:11	0.4	0.4	0.5
307	06/22/2009 13:12	0.4	0.4	0.4
308	06/22/2009 13:13	0.4	0.4	0.4
309	06/22/2009 13:14	0.4	0.4	0.4
310	06/22/2009 13:15	0.4	0.4	0.5
311	06/22/2009 13:16	0.4	0.4	0.5
312	06/22/2009 13:17	0.4	0.4	0.4
313	06/22/2009 13:18	0.4	0.4	0.4
314	06/22/2009 13:19	0.4	0.4	0.4
315	06/22/2009 13:20	0.4	0.4	0.5
316	06/22/2009 13:21	0.4	0.4	0.5
317	06/22/2009 13:22	0.4	0.4	0.5
318	06/22/2009 13:23	0.4	0.4	0.6
319	06/22/2009 13:24	0.4	0.4	0.5
320	06/22/2009 13:25	0.4	0.4	0.5
321	06/22/2009 13:26	0.4	0.4	0.5
322	06/22/2009 13:27	0.4	0.4	0.5
323	06/22/2009 13:28	0.4	0.4	0.5
324	06/22/2009 13:29	0.4	0.4	0.5
325	06/22/2009 13:30	0.4	0.4	0.5
326	06/22/2009 13:31	0.4	0.4	0.5
327	06/22/2009 13:32	0.4	0.4	0.5
328	06/22/2009 13:33	0.4	0.4	0.5
329	06/22/2009 13:34	0.4	0.4	0.5
330	06/22/2009 13:35	0.4	0.4	0.5
331	06/22/2009 13:36	0.4	0.4	0.5
332	06/22/2009 13:37	0.4	0.4	0.5
333	06/22/2009 13:38	0.4	0.4	0.5
334	06/22/2009 13:39	0.4	0.4	0.5
335	06/22/2009 13:40	0.4	0.4	0.5
336	06/22/2009 13:41	0.4	0.4	0.5
337	06/22/2009 13:42	0.4	0.4	0.5
338	06/22/2009 13:43	0.4	0.4	0.5
339	06/22/2009 13:44	0.4	0.4	0.5
340	06/22/2009 13:45	0.5	0.5	0.5
341	06/22/2009 13:46	0.5	0.5	0.6
342	06/22/2009 13:47	0.4	0.4	0.5
343	06/22/2009 13:48	0.4	0.4	0.5
344	06/22/2009 13:49	0.5	0.5	0.5
345	06/22/2009 13:50	0.4	0.4	0.5
346	06/22/2009 13:51	0.4	0.4	0.5
347	06/22/2009 13:52	0.4	0.4	0.5
348	06/22/2009 13:53	0.4	0.4	0.5
349	06/22/2009 13:54	0.4	0.4	0.5
350	06/22/2009 13:55	0.4	0.4	0.5
351	06/22/2009 13:56	0.4	0.4	0.5
352	06/22/2009 13:57	0.4	0.4	0.5
353	06/22/2009 13:58	0.4	0.4	0.5

354	06/22/2009 13:59	0.4	0.4	0.5
355	06/22/2009 14:00	0.5	0.5	0.5
356	06/22/2009 14:01	0.4	0.4	0.5
357	06/22/2009 14:02	0.4	0.4	0.5
358	06/22/2009 14:03	0.5	0.5	0.5
359	06/22/2009 14:04	0.5	0.5	0.5
360	06/22/2009 14:05	0.5	0.5	0.5
361	06/22/2009 14:06	0.4	0.4	0.5
362	06/22/2009 14:07	0.4	0.4	0.5
363	06/22/2009 14:08	0.5	0.5	0.5
364	06/22/2009 14:09	0.5	0.5	0.5
365	06/22/2009 14:10	0.4	0.4	0.5
366	06/22/2009 14:11	0.4	0.4	0.5
367	06/22/2009 14:12	0.4	0.4	0.5
368	06/22/2009 14:13	0.4	0.4	0.5
369	06/22/2009 14:14	0.4	0.4	0.5
370	06/22/2009 14:15	0.5	0.5	0.5
371	06/22/2009 14:16	0.5	0.5	0.5
372	06/22/2009 14:17	0.5	0.5	0.5
373	06/22/2009 14:18	0.5	0.5	0.5
374	06/22/2009 14:19	0.5	0.5	0.5
375	06/22/2009 14:20	0.5	0.5	0.5
376	06/22/2009 14:21	0.4	0.4	0.5
377	06/22/2009 14:22	0.4	0.4	0.5
378	06/22/2009 14:23	0.5	0.5	0.5
379	06/22/2009 14:24	0.5	0.5	0.5
380	06/22/2009 14:25	0.5	0.5	0.5
381	06/22/2009 14:26	0.4	0.4	0.5
382	06/22/2009 14:27	0.5	0.5	0.5
383	06/22/2009 14:28	0.5	0.5	0.5
384	06/22/2009 14:29	0.5	0.5	0.5
385	06/22/2009 14:30	0.4	0.4	0.5
386	06/22/2009 14:31	0.4	0.4	0.5
387	06/22/2009 14:32	0.5	0.5	0.5
388	06/22/2009 14:33	0.5	0.5	0.5
389	06/22/2009 14:34	0.5	0.5	0.5
390	06/22/2009 14:35	0.5	0.5	0.5
391	06/22/2009 14:36	0.4	0.4	0.5
392	06/22/2009 14:37	0.4	0.4	0.5
393	06/22/2009 14:38	0.5	0.5	0.5
394	06/22/2009 14:39	0.5	0.5	0.5
395	06/22/2009 14:40	0.4	0.4	0.5
396	06/22/2009 14:41	0.4	0.4	0.5
397	06/22/2009 14:42	0.5	0.5	0.5
398	06/22/2009 14:43	0.5	0.5	0.5
399	06/22/2009 14:44	0.4	0.4	0.5
400	06/22/2009 14:45	0.4	0.4	0.5
401	06/22/2009 14:46	0.4	0.4	0.5
402	06/22/2009 14:47	0.4	0.4	0.5
403	06/22/2009 14:48	0.4	0.4	0.5
404	06/22/2009 14:49	0.4	0.4	0.5
405	06/22/2009 14:50	0.5	0.5	0.5

406	06/22/2009 14:51	0.4	0.4	0.5
407	06/22/2009 14:52	0.5	0.5	0.5
408	06/22/2009 14:53	0.4	0.4	0.5
409	06/22/2009 14:54	0.4	0.4	0.5
410	06/22/2009 14:55	0.5	0.5	0.5
411	06/22/2009 14:56	0.4	0.4	0.5
412	06/22/2009 14:57	0.4	0.4	0.5
413	06/22/2009 14:58	0.4	0.4	0.5
414	06/22/2009 14:59	0.5	0.5	0.5
415	06/22/2009 15:00	0.5	0.5	0.5
416	06/22/2009 15:01	0.5	0.5	0.5
417	06/22/2009 15:02	0.5	0.5	0.5
418	06/22/2009 15:03	0.4	0.4	0.5
419	06/22/2009 15:04	0.4	0.4	0.5
420	06/22/2009 15:05	0.4	0.4	0.5
421	06/22/2009 15:06	0.4	0.4	0.5
422	06/22/2009 15:07	0.4	0.4	0.5
423	06/22/2009 15:08	0.4	0.4	0.5
424	06/22/2009 15:09	0.4	0.4	0.5
425	06/22/2009 15:10	0.4	0.4	0.5
426	06/22/2009 15:11	0.4	0.4	0.5
427	06/22/2009 15:12	0.4	0.4	0.5
428	06/22/2009 15:13	0.4	0.4	0.5
429	06/22/2009 15:14	0.4	0.4	0.5
430	06/22/2009 15:15	0.4	0.4	0.5
431	06/22/2009 15:16	0.4	0.4	0.5
432	06/22/2009 15:17	0.5	0.5	1.7
433	06/22/2009 15:18	0.5	0.5	0.5
434	06/22/2009 15:19	0.5	0.8	2.4
435	06/22/2009 15:20	0.5	0.5	1.0
436	06/22/2009 15:21	0.5	0.5	0.6
437	06/22/2009 15:22	0.5	0.5	0.5
438	06/22/2009 15:23	0.5	0.5	0.5
439	06/22/2009 15:24	0.5	0.5	0.5
440	06/22/2009 15:25	0.5	0.5	0.6
441	06/22/2009 15:26	0.5	0.5	0.5
442	06/22/2009 15:27	0.4	0.4	0.5
443	06/22/2009 15:28	0.4	0.4	0.5
444	06/22/2009 15:29	0.4	0.4	0.5
445	06/22/2009 15:30	0.5	0.5	0.6
446	06/22/2009 15:31	0.5	0.5	0.5
447	06/22/2009 15:32	0.5	0.5	0.5
448	06/22/2009 15:33	0.4	0.4	0.5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 456 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/22/2009 07:57      0.0         0.0         0.0
2 06/22/2009 07:58      0.0         0.0         0.0
3 06/22/2009 07:59      0.0         0.0         0.0
4 06/22/2009 08:00      0.0         0.0         0.0
5 06/22/2009 08:01      0.0         0.0         0.0
6 06/22/2009 08:02      0.0         0.0         0.0
7 06/22/2009 08:03      0.0         0.0         0.0
8 06/22/2009 08:04      0.0         0.0         0.0
9 06/22/2009 08:05      0.0         0.0         0.0
10 06/22/2009 08:06      0.0         0.0         0.0
11 06/22/2009 08:07      0.0         0.0         0.0
12 06/22/2009 08:08      0.0         0.0         0.0
13 06/22/2009 08:09      0.0         0.0         0.0
14 06/22/2009 08:10      0.0         0.0         0.0
15 06/22/2009 08:11      0.0         0.0         0.0
16 06/22/2009 08:12      0.0         0.0         0.0
17 06/22/2009 08:13      0.0         0.0         0.0
18 06/22/2009 08:14      0.0         0.0         0.0
19 06/22/2009 08:15      0.0         0.0         0.0
20 06/22/2009 08:16      0.0         0.0         0.0
21 06/22/2009 08:17      0.0         0.0         0.0
22 06/22/2009 08:18      0.0         0.0         0.0
23 06/22/2009 08:19      0.0         0.0         0.0
24 06/22/2009 08:20      0.0         0.0         0.0
25 06/22/2009 08:21      0.0         0.0         0.0
26 06/22/2009 08:22      0.0         0.0         0.0
27 06/22/2009 08:23      0.0         0.0         0.0
28 06/22/2009 08:24      0.0         0.0         0.0
29 06/22/2009 08:25      0.0         0.0         0.0
30 06/22/2009 08:26      0.0         0.0         0.0
31 06/22/2009 08:27      0.0         0.0         0.0
32 06/22/2009 08:28      0.0         0.0         0.0
33 06/22/2009 08:29      0.0         0.0         0.0
34 06/22/2009 08:30      0.0         0.0         0.0
35 06/22/2009 08:31      0.0         0.0         0.0
36 06/22/2009 08:32      0.0         0.0         0.0
37 06/22/2009 08:33      0.0         0.0         0.0
38 06/22/2009 08:34      0.0         0.0         0.0
39 06/22/2009 08:35      0.0         0.0         0.0
40 06/22/2009 08:36      0.0         0.0         0.0
41 06/22/2009 08:37      0.0         0.0         0.0
```



42	06/22/2009 08:38	0.0	0.0	0.0
43	06/22/2009 08:39	0.0	0.0	0.0
44	06/22/2009 08:40	0.0	0.0	0.0
45	06/22/2009 08:41	0.0	0.0	0.0
46	06/22/2009 08:42	0.0	0.0	0.0
47	06/22/2009 08:43	0.0	0.0	0.0
48	06/22/2009 08:44	0.0	0.0	0.0
49	06/22/2009 08:45	0.0	0.0	0.0
50	06/22/2009 08:46	0.0	0.0	0.0
51	06/22/2009 08:47	0.0	0.0	0.0
52	06/22/2009 08:48	0.0	0.0	0.0
53	06/22/2009 08:49	0.0	0.0	0.0
54	06/22/2009 08:50	0.0	0.0	0.1
55	06/22/2009 08:51	0.0	0.0	0.1
56	06/22/2009 08:52	0.0	0.0	0.1
57	06/22/2009 08:53	0.0	0.0	0.1
58	06/22/2009 08:54	0.0	0.0	0.0
59	06/22/2009 08:55	0.0	0.0	0.1
60	06/22/2009 08:56	0.0	0.0	0.2
61	06/22/2009 08:57	0.0	0.0	0.1
62	06/22/2009 08:58	0.0	0.0	0.3
63	06/22/2009 08:59	0.0	0.0	0.2
64	06/22/2009 09:00	0.0	0.0	0.1
65	06/22/2009 09:01	0.0	0.0	0.0
66	06/22/2009 09:02	0.0	0.0	0.0
67	06/22/2009 09:03	0.0	0.0	0.0
68	06/22/2009 09:04	0.0	0.0	0.0
69	06/22/2009 09:05	0.0	0.0	0.1
70	06/22/2009 09:06	0.0	0.0	0.1
71	06/22/2009 09:07	0.0	0.0	0.0
72	06/22/2009 09:08	0.0	0.0	0.0
73	06/22/2009 09:09	0.0	0.0	0.0
74	06/22/2009 09:10	0.0	0.0	0.0
75	06/22/2009 09:11	0.0	0.0	0.0
76	06/22/2009 09:12	0.0	0.0	0.0
77	06/22/2009 09:13	0.0	0.0	0.0
78	06/22/2009 09:14	0.0	0.0	0.0
79	06/22/2009 09:15	0.0	0.0	0.0
80	06/22/2009 09:16	0.0	0.0	0.0
81	06/22/2009 09:17	0.0	0.0	0.3
82	06/22/2009 09:18	0.0	0.0	0.0
83	06/22/2009 09:19	0.0	0.0	0.0
84	06/22/2009 09:20	0.0	0.0	0.2
85	06/22/2009 09:21	0.0	0.1	0.2
86	06/22/2009 09:22	0.0	0.4	1.0
87	06/22/2009 09:23	0.1	0.4	0.6
88	06/22/2009 09:24	0.1	0.3	0.7
89	06/22/2009 09:25	0.1	0.2	0.5
90	06/22/2009 09:26	0.0	0.1	0.3
91	06/22/2009 09:27	0.0	0.0	0.2
92	06/22/2009 09:28	0.0	0.0	0.1
93	06/22/2009 09:29	0.0	0.0	0.0

94	06/22/2009 09:30	0.0	0.0	0.0
95	06/22/2009 09:31	0.0	0.0	0.0
96	06/22/2009 09:32	0.0	0.0	0.0
97	06/22/2009 09:33	0.0	0.0	0.0
98	06/22/2009 09:34	0.0	0.0	0.0
99	06/22/2009 09:35	0.0	0.0	0.1
100	06/22/2009 09:36	0.0	0.0	0.1
101	06/22/2009 09:37	0.0	0.0	0.0
102	06/22/2009 09:38	0.0	0.0	0.1
103	06/22/2009 09:39	0.0	0.0	0.1
104	06/22/2009 09:40	0.0	0.0	0.1
105	06/22/2009 09:41	0.0	0.0	0.1
106	06/22/2009 09:42	0.0	0.0	0.1
107	06/22/2009 09:43	0.0	0.0	0.1
108	06/22/2009 09:44	0.0	0.0	0.1
109	06/22/2009 09:45	0.0	0.0	0.1
110	06/22/2009 09:46	0.0	0.0	0.1
111	06/22/2009 09:47	0.0	0.0	0.1
112	06/22/2009 09:48	0.0	0.0	0.1
113	06/22/2009 09:49	0.0	0.0	0.1
114	06/22/2009 09:50	0.0	0.0	0.1
115	06/22/2009 09:51	0.0	0.0	0.1
116	06/22/2009 09:52	0.0	0.0	0.1
117	06/22/2009 09:53	0.0	0.0	0.1
118	06/22/2009 09:54	0.0	0.0	0.1
119	06/22/2009 09:55	0.0	0.0	0.1
120	06/22/2009 09:56	0.0	0.0	0.1
121	06/22/2009 09:57	0.0	0.0	0.1
122	06/22/2009 09:58	0.0	0.0	0.1
123	06/22/2009 09:59	0.0	0.0	0.1
124	06/22/2009 10:00	0.0	0.0	0.1
125	06/22/2009 10:01	0.0	0.0	0.1
126	06/22/2009 10:02	0.0	0.0	0.2
127	06/22/2009 10:03	0.0	0.0	0.1
128	06/22/2009 10:04	0.0	0.0	0.1
129	06/22/2009 10:05	0.0	0.0	0.1
130	06/22/2009 10:06	0.0	0.0	0.1
131	06/22/2009 10:07	0.0	0.0	0.1
132	06/22/2009 10:08	0.0	0.0	0.1
133	06/22/2009 10:09	0.0	0.0	0.1
134	06/22/2009 10:10	0.0	0.0	0.1
135	06/22/2009 10:11	0.0	0.0	0.1
136	06/22/2009 10:12	0.0	0.0	0.1
137	06/22/2009 10:13	0.0	0.0	0.1
138	06/22/2009 10:14	0.0	0.0	0.1
139	06/22/2009 10:15	0.0	0.0	0.2
140	06/22/2009 10:16	0.0	0.0	0.1
141	06/22/2009 10:17	0.0	0.0	0.2
142	06/22/2009 10:18	0.0	0.0	0.1
143	06/22/2009 10:19	0.0	0.0	0.1
144	06/22/2009 10:20	0.0	0.0	0.2
145	06/22/2009 10:21	0.0	0.1	0.2

146	06/22/2009 10:22	0.0	0.0	0.2
147	06/22/2009 10:23	0.0	0.0	0.1
148	06/22/2009 10:24	0.0	0.1	0.2
149	06/22/2009 10:25	0.0	0.0	0.2
150	06/22/2009 10:26	0.0	0.0	0.2
151	06/22/2009 10:27	0.0	0.1	0.2
152	06/22/2009 10:28	0.0	0.1	0.2
153	06/22/2009 10:29	0.0	0.0	0.2
154	06/22/2009 10:30	0.0	0.1	0.2
155	06/22/2009 10:31	0.0	0.1	0.2
156	06/22/2009 10:32	0.0	0.1	0.2
157	06/22/2009 10:33	0.1	0.1	0.2
158	06/22/2009 10:34	0.0	0.1	0.2
159	06/22/2009 10:35	0.0	0.1	0.2
160	06/22/2009 10:36	0.0	0.1	0.2
161	06/22/2009 10:37	0.0	0.1	0.2
162	06/22/2009 10:38	0.0	0.1	0.2
163	06/22/2009 10:39	0.0	0.1	0.2
164	06/22/2009 10:40	0.0	0.1	0.2
165	06/22/2009 10:41	0.0	0.1	0.2
166	06/22/2009 10:42	0.0	0.1	0.2
167	06/22/2009 10:43	0.0	0.1	0.2
168	06/22/2009 10:44	0.0	0.1	0.2
169	06/22/2009 10:45	0.1	0.1	0.2
170	06/22/2009 10:46	0.1	0.1	0.2
171	06/22/2009 10:47	0.1	0.1	0.2
172	06/22/2009 10:48	0.1	0.1	0.2
173	06/22/2009 10:49	0.0	0.1	0.2
174	06/22/2009 10:50	0.1	0.1	0.2
175	06/22/2009 10:51	0.1	0.1	0.2
176	06/22/2009 10:52	0.0	0.1	0.2
177	06/22/2009 10:53	0.1	0.1	0.2
178	06/22/2009 10:54	0.1	0.1	0.2
179	06/22/2009 10:55	0.1	0.1	0.2
180	06/22/2009 10:56	0.1	0.1	0.2
181	06/22/2009 10:57	0.1	0.1	0.2
182	06/22/2009 10:58	0.1	0.1	0.2
183	06/22/2009 10:59	0.1	0.1	0.2
184	06/22/2009 11:00	0.1	0.1	0.2
185	06/22/2009 11:01	0.1	0.1	0.2
186	06/22/2009 11:02	0.1	0.1	0.2
187	06/22/2009 11:03	0.1	0.1	0.2
188	06/22/2009 11:04	0.1	0.1	0.2
189	06/22/2009 11:05	0.1	0.1	0.2
190	06/22/2009 11:06	0.3	0.6	1.0
191	06/22/2009 11:07	0.2	0.5	0.8
192	06/22/2009 11:08	0.1	0.2	0.3
193	06/22/2009 11:09	0.1	0.2	0.5
194	06/22/2009 11:10	0.2	0.4	0.8
195	06/22/2009 11:11	0.1	0.2	0.5
196	06/22/2009 11:12	0.1	0.1	0.2
197	06/22/2009 11:13	0.1	0.1	0.3

198	06/22/2009 11:14	0.1	0.1	0.2
199	06/22/2009 11:15	0.1	0.1	0.2
200	06/22/2009 11:16	0.1	0.1	0.2
201	06/22/2009 11:17	0.1	0.1	0.2
202	06/22/2009 11:18	0.1	0.1	0.2
203	06/22/2009 11:19	0.1	0.1	0.2
204	06/22/2009 11:20	0.1	0.1	0.2
205	06/22/2009 11:21	0.1	0.1	0.2
206	06/22/2009 11:22	0.1	0.1	0.2
207	06/22/2009 11:23	0.1	0.1	0.2
208	06/22/2009 11:24	0.1	0.1	0.2
209	06/22/2009 11:25	0.1	0.1	0.3
210	06/22/2009 11:26	0.1	0.1	0.2
211	06/22/2009 11:27	0.1	0.1	0.2
212	06/22/2009 11:28	0.1	0.1	0.2
213	06/22/2009 11:29	0.1	0.1	0.3
214	06/22/2009 11:30	0.1	0.1	0.2
215	06/22/2009 11:31	0.1	0.1	0.2
216	06/22/2009 11:32	0.1	0.1	0.2
217	06/22/2009 11:33	0.1	0.1	0.2
218	06/22/2009 11:34	0.1	0.1	0.2
219	06/22/2009 11:35	0.1	0.1	0.2
220	06/22/2009 11:36	0.1	0.1	0.2
221	06/22/2009 11:37	0.1	0.1	0.2
222	06/22/2009 11:38	0.1	0.1	0.2
223	06/22/2009 11:39	0.1	0.1	0.2
224	06/22/2009 11:40	0.1	0.1	0.2
225	06/22/2009 11:41	0.1	0.1	0.4
226	06/22/2009 11:42	0.1	0.1	0.2
227	06/22/2009 11:43	0.1	0.1	0.2
228	06/22/2009 11:44	0.1	0.1	0.2
229	06/22/2009 11:45	0.1	0.1	0.2
230	06/22/2009 11:46	0.1	0.1	0.2
231	06/22/2009 11:47	0.1	0.1	0.2
232	06/22/2009 11:48	0.1	0.1	0.2
233	06/22/2009 11:49	0.1	0.1	0.2
234	06/22/2009 11:50	0.1	0.1	0.2
235	06/22/2009 11:51	0.1	0.1	0.2
236	06/22/2009 11:52	0.1	0.1	0.2
237	06/22/2009 11:53	0.1	0.1	0.2
238	06/22/2009 11:54	0.1	0.1	0.2
239	06/22/2009 11:55	0.1	0.1	0.2
240	06/22/2009 11:56	0.1	0.1	0.2
241	06/22/2009 11:57	0.2	0.2	0.4
242	06/22/2009 11:58	0.1	0.2	0.3
243	06/22/2009 11:59	0.1	0.2	0.3
244	06/22/2009 12:00	0.1	0.2	0.3
245	06/22/2009 12:01	0.1	0.1	0.3
246	06/22/2009 12:02	0.1	0.1	0.3
247	06/22/2009 12:03	0.1	0.1	0.3
248	06/22/2009 12:04	0.1	0.1	0.3
249	06/22/2009 12:05	0.1	0.1	0.3

250	06/22/2009 12:06	0.1	0.2	0.3
251	06/22/2009 12:07	0.1	0.2	0.6
252	06/22/2009 12:08	0.2	0.6	1.4
253	06/22/2009 12:09	0.2	0.4	0.7
254	06/22/2009 12:10	0.3	0.8	1.7
255	06/22/2009 12:11	0.2	0.5	1.0
256	06/22/2009 12:12	0.2	0.2	0.3
257	06/22/2009 12:13	0.1	0.2	0.3
258	06/22/2009 12:14	0.2	0.2	0.3
259	06/22/2009 12:15	0.1	0.2	0.4
260	06/22/2009 12:16	0.2	0.2	0.4
261	06/22/2009 12:17	0.2	0.2	0.3
262	06/22/2009 12:18	0.1	0.3	0.5
263	06/22/2009 12:19	0.3	0.4	1.2
264	06/22/2009 12:20	0.4	0.6	1.1
265	06/22/2009 12:21	0.3	0.7	1.3
266	06/22/2009 12:22	0.2	0.2	0.5
267	06/22/2009 12:23	0.2	0.2	0.4
268	06/22/2009 12:24	0.1	0.2	0.3
269	06/22/2009 12:25	0.1	0.2	0.3
270	06/22/2009 12:26	0.1	0.2	0.3
271	06/22/2009 12:27	0.1	0.2	0.3
272	06/22/2009 12:28	0.2	0.3	0.5
273	06/22/2009 12:29	0.2	0.2	0.5
274	06/22/2009 12:30	0.1	0.1	0.3
275	06/22/2009 12:31	0.1	0.1	0.3
276	06/22/2009 12:32	0.1	0.1	0.2
277	06/22/2009 12:33	0.1	0.1	0.2
278	06/22/2009 12:34	0.1	0.1	0.3
279	06/22/2009 12:35	0.1	0.2	0.3
280	06/22/2009 12:36	0.1	0.2	0.3
281	06/22/2009 12:37	0.1	0.2	0.3
282	06/22/2009 12:38	0.1	0.2	0.3
283	06/22/2009 12:39	0.1	0.2	0.5
284	06/22/2009 12:40	0.4	0.7	1.2
285	06/22/2009 12:41	0.4	0.7	1.2
286	06/22/2009 12:42	0.4	0.5	1.0
287	06/22/2009 12:43	0.4	0.5	0.8
288	06/22/2009 12:44	0.4	0.6	1.4
289	06/22/2009 12:45	0.6	0.9	1.2
290	06/22/2009 12:46	0.7	1.0	1.4
291	06/22/2009 12:47	0.3	0.6	1.3
292	06/22/2009 12:48	0.2	0.2	0.3
293	06/22/2009 12:49	0.2	0.2	0.6
294	06/22/2009 12:50	0.2	0.4	0.8
295	06/22/2009 12:51	0.4	0.7	1.4
296	06/22/2009 12:52	0.4	0.5	1.0
297	06/22/2009 12:53	0.4	0.6	0.9
298	06/22/2009 12:54	0.4	0.5	0.8
299	06/22/2009 12:55	0.2	0.4	1.0
300	06/22/2009 12:56	0.3	0.5	1.0
301	06/22/2009 12:57	0.4	0.7	1.7

302	06/22/2009 12:58	0.5	0.9	1.5
303	06/22/2009 12:59	0.5	1.1	2.4
304	06/22/2009 13:00	0.2	0.3	0.8
305	06/22/2009 13:01	0.2	0.2	0.4
306	06/22/2009 13:02	0.2	0.2	0.4
307	06/22/2009 13:03	0.2	0.5	0.9
308	06/22/2009 13:04	0.2	0.2	0.5
309	06/22/2009 13:05	0.2	0.4	0.7
310	06/22/2009 13:06	0.2	0.2	0.5
311	06/22/2009 13:07	0.2	0.3	0.6
312	06/22/2009 13:08	0.3	0.5	0.9
313	06/22/2009 13:09	0.4	0.5	0.7
314	06/22/2009 13:10	0.3	0.5	1.2
315	06/22/2009 13:11	0.2	0.7	1.5
316	06/22/2009 13:12	0.2	0.2	0.4
317	06/22/2009 13:13	0.2	0.4	0.7
318	06/22/2009 13:14	0.2	0.3	0.5
319	06/22/2009 13:15	0.2	0.2	0.4
320	06/22/2009 13:16	0.2	0.3	0.6
321	06/22/2009 13:17	0.1	0.2	0.4
322	06/22/2009 13:18	0.2	0.2	0.4
323	06/22/2009 13:19	0.2	0.5	1.1
324	06/22/2009 13:20	0.3	0.6	1.4
325	06/22/2009 13:21	0.3	0.5	0.7
326	06/22/2009 13:22	0.2	0.2	0.4
327	06/22/2009 13:23	0.2	0.3	0.4
328	06/22/2009 13:24	0.1	0.2	0.3
329	06/22/2009 13:25	0.1	0.2	0.4
330	06/22/2009 13:26	0.2	0.2	0.5
331	06/22/2009 13:27	0.2	0.2	0.3
332	06/22/2009 13:28	0.2	0.2	0.3
333	06/22/2009 13:29	0.2	0.2	0.3
334	06/22/2009 13:30	0.2	0.2	0.5
335	06/22/2009 13:31	0.2	0.2	0.5
336	06/22/2009 13:32	0.2	0.2	0.4
337	06/22/2009 13:33	0.2	0.2	0.3
338	06/22/2009 13:34	0.1	0.4	1.0
339	06/22/2009 13:35	0.3	0.4	0.9
340	06/22/2009 13:36	0.4	1.1	1.8
341	06/22/2009 13:37	0.2	0.4	0.9
342	06/22/2009 13:38	0.1	0.3	0.5
343	06/22/2009 13:39	0.2	0.4	1.6
344	06/22/2009 13:40	0.6	1.1	1.6
345	06/22/2009 13:41	0.4	1.0	1.7
346	06/22/2009 13:42	0.1	0.2	0.6
347	06/22/2009 13:43	0.1	0.3	0.6
348	06/22/2009 13:44	0.1	0.5	1.1
349	06/22/2009 13:45	0.2	0.8	2.5
350	06/22/2009 13:46	0.6	2.7	5.3L
351	06/22/2009 13:47	0.3	0.8	3.4
352	06/22/2009 13:48	0.2	1.0	4.9
353	06/22/2009 13:49	0.6	1.7	4.0

354	06/22/2009 13:50	0.2	1.1	3.2
355	06/22/2009 13:51	0.6	2.1	3.5
356	06/22/2009 13:52	0.5	1.5	3.2
357	06/22/2009 13:53	0.5	0.9	1.8
358	06/22/2009 13:54	0.2	0.7	1.3
359	06/22/2009 13:55	0.5	1.3	2.6
360	06/22/2009 13:56	0.3	1.0	1.6
361	06/22/2009 13:57	0.4	1.0	2.5
362	06/22/2009 13:58	0.7	1.3	2.9
363	06/22/2009 13:59	0.8	1.4	2.2
364	06/22/2009 14:00	0.9	1.4	2.0
365	06/22/2009 14:01	0.5	1.1	2.1
366	06/22/2009 14:02	0.3	0.7	1.5
367	06/22/2009 14:03	0.2	0.7	1.6
368	06/22/2009 14:04	0.3	0.5	1.4
369	06/22/2009 14:05	0.3	0.6	1.2
370	06/22/2009 14:06	0.3	0.6	1.3
371	06/22/2009 14:07	0.6	0.8	1.3
372	06/22/2009 14:08	0.4	0.8	1.2
373	06/22/2009 14:09	0.5	1.0	1.9
374	06/22/2009 14:10	0.5	0.9	1.5
375	06/22/2009 14:11	0.2	0.7	2.2
376	06/22/2009 14:12	0.3	0.5	1.2
377	06/22/2009 14:13	0.7	0.9	1.3
378	06/22/2009 14:14	0.2	0.5	1.1
379	06/22/2009 14:15	0.2	0.3	0.5
380	06/22/2009 14:16	0.2	0.7	2.1
381	06/22/2009 14:17	0.3	0.7	1.1
382	06/22/2009 14:18	0.2	0.7	1.6
383	06/22/2009 14:19	0.1	0.1	0.6
384	06/22/2009 14:20	0.1	0.3	0.8
385	06/22/2009 14:21	0.1	0.3	0.7
386	06/22/2009 14:22	0.2	0.4	0.9
387	06/22/2009 14:23	0.1	0.4	0.7
388	06/22/2009 14:24	0.1	0.3	1.0
389	06/22/2009 14:25	0.1	0.3	0.9
390	06/22/2009 14:26	0.2	0.3	0.9
391	06/22/2009 14:27	0.1	0.3	1.0
392	06/22/2009 14:28	0.2	0.5	1.1
393	06/22/2009 14:29	0.0	0.2	1.1
394	06/22/2009 14:30	0.0	0.1	0.7
395	06/22/2009 14:31	0.1	0.3	0.5
396	06/22/2009 14:32	0.1	0.3	0.9
397	06/22/2009 14:33	0.1	0.4	0.7
398	06/22/2009 14:34	0.0	0.2	0.7
399	06/22/2009 14:35	0.1	0.2	0.7
400	06/22/2009 14:36	0.3	0.5	1.1
401	06/22/2009 14:37	0.1	0.3	0.7
402	06/22/2009 14:38	0.1	0.3	1.8
403	06/22/2009 14:39	0.1	0.4	1.5
404	06/22/2009 14:40	0.1	0.4	0.8
405	06/22/2009 14:41	0.0	0.3	0.7

406	06/22/2009 14:42	0.0	0.5	1.5
407	06/22/2009 14:43	0.0	0.2	1.1
408	06/22/2009 14:44	0.1	0.4	2.2
409	06/22/2009 14:45	0.4	0.7	1.5
410	06/22/2009 14:46	0.3	0.8	1.8
411	06/22/2009 14:47	0.5	1.0	1.8
412	06/22/2009 14:48	0.4	0.7	1.3
413	06/22/2009 14:49	0.4	1.3	2.3
414	06/22/2009 14:50	0.1	0.6	1.5
415	06/22/2009 14:51	0.6	2.3	3.5
416	06/22/2009 14:52	0.2	0.9	3.1
417	06/22/2009 14:53	0.2	0.4	0.8
418	06/22/2009 14:54	0.5	1.1	2.5
419	06/22/2009 14:55	0.9	1.6	3.2
420	06/22/2009 14:56	0.9	1.6	2.8
421	06/22/2009 14:57	0.3	0.7	1.2
422	06/22/2009 14:58	0.4	0.9	2.1
423	06/22/2009 14:59	0.7	1.8	2.6
424	06/22/2009 15:00	0.9	1.5	2.2
425	06/22/2009 15:01	0.3	0.6	1.4
426	06/22/2009 15:02	0.2	0.4	1.2
427	06/22/2009 15:03	0.0	0.1	0.7
428	06/22/2009 15:04	0.0	0.4	1.3
429	06/22/2009 15:05	0.0	0.3	1.2
430	06/22/2009 15:06	0.0	0.1	0.4
431	06/22/2009 15:07	0.1	0.2	0.3
432	06/22/2009 15:08	0.1	0.3	0.7
433	06/22/2009 15:09	0.1	0.5	1.1
434	06/22/2009 15:10	0.1	0.2	0.8
435	06/22/2009 15:11	0.0	0.3	0.7
436	06/22/2009 15:12	0.0	0.0	0.4
437	06/22/2009 15:13	0.1	0.4	1.1
438	06/22/2009 15:14	0.2	0.4	0.7
439	06/22/2009 15:15	0.1	0.3	0.5
440	06/22/2009 15:16	0.3	0.9	3.2
441	06/22/2009 15:17	0.1	0.4	1.6
442	06/22/2009 15:18	0.1	0.6	5.3L
443	06/22/2009 15:19	0.1	0.2	0.7
444	06/22/2009 15:20	0.0	0.0	0.1
445	06/22/2009 15:21	0.0	0.0	0.1
446	06/22/2009 15:22	0.0	0.0	0.1
447	06/22/2009 15:23	0.0	0.0	0.1
448	06/22/2009 15:24	0.0	0.0	0.1
449	06/22/2009 15:25	0.0	0.0	0.1
450	06/22/2009 15:26	0.0	0.0	0.1
451	06/22/2009 15:27	0.0	0.0	0.1
452	06/22/2009 15:28	0.0	0.0	0.1
453	06/22/2009 15:29	0.0	0.0	0.1
454	06/22/2009 15:30	0.0	0.0	0.1
455	06/22/2009 15:31	0.0	0.0	0.1
456	06/22/2009 15:32	0.0	0.0	0.1



Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 454 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/22/2009 07:46      0.6      0.6      0.7
2 06/22/2009 07:47      0.2      0.4      0.7
3 06/22/2009 07:48      0.1      0.2      0.4
4 06/22/2009 07:49      0.0      0.1      0.3
5 06/22/2009 07:50      0.0      0.0      0.2
6 06/22/2009 07:51      0.0      0.0      0.1
7 06/22/2009 07:52      0.0      0.0      0.0
8 06/22/2009 07:53      0.0      0.0      0.0
9 06/22/2009 07:54      0.0      0.0      0.0
10 06/22/2009 07:55      0.0      0.0      0.0
11 06/22/2009 07:56      0.0      0.0      0.0
12 06/22/2009 07:57      0.0      0.0      0.3
13 06/22/2009 07:58      0.0      0.0      0.0
14 06/22/2009 07:59      0.0      0.0      0.0
15 06/22/2009 08:00      0.0      0.0      0.0
16 06/22/2009 08:01      0.0      0.0      0.0
17 06/22/2009 08:02      0.0      0.0      0.0
18 06/22/2009 08:03      0.0      0.0      0.0
19 06/22/2009 08:04      0.0      0.0      0.0
20 06/22/2009 08:05      0.0      0.0      0.0
21 06/22/2009 08:06      0.0      0.0      0.0
22 06/22/2009 08:07      0.0      0.0      0.0
23 06/22/2009 08:08      0.0      0.0      0.0
24 06/22/2009 08:09      0.0      0.0      0.0
25 06/22/2009 08:10      0.0      0.0      0.0
26 06/22/2009 08:11      0.0      0.0      0.0
27 06/22/2009 08:12      0.0      0.0      0.0
28 06/22/2009 08:13      0.0      0.0      0.0
29 06/22/2009 08:14      0.0      0.0      0.0
30 06/22/2009 08:15      0.0      0.0      0.0
31 06/22/2009 08:16      0.0      0.0      0.0
32 06/22/2009 08:17      0.0      0.0      0.5
33 06/22/2009 08:18      0.0      0.0      0.0
34 06/22/2009 08:19      0.0      0.0      0.0
35 06/22/2009 08:20      0.0      0.0      0.0
36 06/22/2009 08:21      0.0      0.0      0.0
37 06/22/2009 08:22      0.0      0.0      0.0
38 06/22/2009 08:23      0.0      0.0      0.0
39 06/22/2009 08:24      0.0      0.0      0.0
40 06/22/2009 08:25      0.0      0.0      0.0
41 06/22/2009 08:26      0.0      0.0      0.0
```

42	06/22/2009 08:27	0.0	0.0	0.0
43	06/22/2009 08:28	0.0	0.0	0.0
44	06/22/2009 08:29	0.0	0.0	0.0
45	06/22/2009 08:30	0.0	0.0	0.0
46	06/22/2009 08:31	0.0	0.0	0.0
47	06/22/2009 08:32	0.0	0.0	0.0
48	06/22/2009 08:33	0.0	0.0	0.0
49	06/22/2009 08:34	0.0	0.0	0.0
50	06/22/2009 08:35	0.0	0.0	0.0
51	06/22/2009 08:36	0.0	0.0	0.0
52	06/22/2009 08:37	0.0	0.0	0.0
53	06/22/2009 08:38	0.0	0.0	0.0
54	06/22/2009 08:39	0.0	0.0	0.0
55	06/22/2009 08:40	0.0	0.0	0.0
56	06/22/2009 08:41	0.0	0.0	0.0
57	06/22/2009 08:42	0.0	0.0	0.0
58	06/22/2009 08:43	0.0	0.0	0.0
59	06/22/2009 08:44	0.0	0.0	0.0
60	06/22/2009 08:45	0.0	0.0	0.0
61	06/22/2009 08:46	0.0	0.0	0.0
62	06/22/2009 08:47	0.0	0.0	0.0
63	06/22/2009 08:48	0.0	0.0	0.0
64	06/22/2009 08:49	0.0	0.0	0.0
65	06/22/2009 08:50	0.0	0.0	0.0
66	06/22/2009 08:51	0.0	0.0	0.0
67	06/22/2009 08:52	0.0	0.0	0.0
68	06/22/2009 08:53	0.0	0.0	0.0
69	06/22/2009 08:54	0.0	0.0	0.0
70	06/22/2009 08:55	0.0	0.0	0.0
71	06/22/2009 08:56	0.0	0.0	0.0
72	06/22/2009 08:57	0.0	0.0	0.0
73	06/22/2009 08:58	0.0	0.0	0.0
74	06/22/2009 08:59	0.0	0.0	0.0
75	06/22/2009 09:00	0.0	0.0	0.0
76	06/22/2009 09:01	0.0	0.0	0.0
77	06/22/2009 09:02	0.0	0.0	0.0
78	06/22/2009 09:03	0.0	0.0	0.0
79	06/22/2009 09:04	0.0	0.0	0.0
80	06/22/2009 09:05	0.0	0.0	0.0
81	06/22/2009 09:06	0.0	0.0	0.0
82	06/22/2009 09:07	0.0	0.0	0.0
83	06/22/2009 09:08	0.0	0.0	0.0
84	06/22/2009 09:09	0.0	0.0	0.0
85	06/22/2009 09:10	0.0	0.0	0.0
86	06/22/2009 09:11	0.0	0.0	0.0
87	06/22/2009 09:12	0.0	0.0	0.0
88	06/22/2009 09:13	0.0	0.0	0.0
89	06/22/2009 09:14	0.0	0.0	0.0
90	06/22/2009 09:15	0.0	0.0	0.0
91	06/22/2009 09:16	0.0	0.0	0.0
92	06/22/2009 09:17	0.0	0.0	0.0
93	06/22/2009 09:18	0.0	0.0	0.0

94	06/22/2009 09:19	0.0	0.0	0.0
95	06/22/2009 09:20	0.0	0.0	0.0
96	06/22/2009 09:21	0.0	0.0	0.0
97	06/22/2009 09:22	0.0	0.0	0.0
98	06/22/2009 09:23	0.0	0.0	0.0
99	06/22/2009 09:24	0.0	0.0	0.0
100	06/22/2009 09:25	0.0	0.0	0.0
101	06/22/2009 09:26	0.0	0.0	0.0
102	06/22/2009 09:27	0.0	0.0	0.0
103	06/22/2009 09:28	0.0	0.0	0.0
104	06/22/2009 09:29	0.0	0.0	0.0
105	06/22/2009 09:30	0.0	0.0	0.0
106	06/22/2009 09:31	0.0	0.0	0.0
107	06/22/2009 09:32	0.0	0.0	0.0
108	06/22/2009 09:33	0.0	0.0	0.0
109	06/22/2009 09:34	0.0	0.0	0.0
110	06/22/2009 09:35	0.0	0.0	0.0
111	06/22/2009 09:36	0.0	0.0	0.0
112	06/22/2009 09:37	0.0	0.0	0.0
113	06/22/2009 09:38	0.0	0.0	0.0
114	06/22/2009 09:39	0.0	0.0	0.0
115	06/22/2009 09:40	0.0	0.0	0.0
116	06/22/2009 09:41	0.0	0.0	0.0
117	06/22/2009 09:42	0.0	0.0	0.0
118	06/22/2009 09:43	0.0	0.0	0.0
119	06/22/2009 09:44	0.0	0.0	0.0
120	06/22/2009 09:45	0.0	0.0	0.0
121	06/22/2009 09:46	0.0	0.0	0.0
122	06/22/2009 09:47	0.0	0.0	0.0
123	06/22/2009 09:48	0.0	0.0	0.0
124	06/22/2009 09:49	0.0	0.0	0.0
125	06/22/2009 09:50	0.0	0.0	0.0
126	06/22/2009 09:51	0.0	0.0	0.0
127	06/22/2009 09:52	0.0	0.0	0.0
128	06/22/2009 09:53	0.0	0.0	0.0
129	06/22/2009 09:54	0.0	0.0	0.0
130	06/22/2009 09:55	0.0	0.0	0.0
131	06/22/2009 09:56	0.0	0.0	0.0
132	06/22/2009 09:57	0.0	0.0	0.0
133	06/22/2009 09:58	0.0	0.0	0.0
134	06/22/2009 09:59	0.0	0.0	0.0
135	06/22/2009 10:00	0.0	0.0	0.0
136	06/22/2009 10:01	0.0	0.0	0.0
137	06/22/2009 10:02	0.0	0.0	0.0
138	06/22/2009 10:03	0.0	0.0	0.0
139	06/22/2009 10:04	0.0	0.0	0.0
140	06/22/2009 10:05	0.0	0.0	0.0
141	06/22/2009 10:06	0.0	0.0	0.0
142	06/22/2009 10:07	0.0	0.0	0.0
143	06/22/2009 10:08	0.0	0.0	0.0
144	06/22/2009 10:09	0.0	0.0	0.0
145	06/22/2009 10:10	0.0	0.0	0.0

146	06/22/2009 10:11	0.0	0.0	0.0
147	06/22/2009 10:12	0.0	0.0	0.0
148	06/22/2009 10:13	0.0	0.0	0.0
149	06/22/2009 10:14	0.0	0.0	0.0
150	06/22/2009 10:15	0.0	0.0	0.0
151	06/22/2009 10:16	0.0	0.0	0.0
152	06/22/2009 10:17	0.0	0.0	0.0
153	06/22/2009 10:18	0.0	0.0	0.0
154	06/22/2009 10:19	0.0	0.0	0.0
155	06/22/2009 10:20	0.0	0.0	0.0
156	06/22/2009 10:21	0.0	0.0	0.0
157	06/22/2009 10:22	0.0	0.0	0.0
158	06/22/2009 10:23	0.0	0.0	0.0
159	06/22/2009 10:24	0.0	0.0	0.0
160	06/22/2009 10:25	0.0	0.0	0.0
161	06/22/2009 10:26	0.0	0.0	0.0
162	06/22/2009 10:27	0.0	0.0	0.0
163	06/22/2009 10:28	0.0	0.0	0.0
164	06/22/2009 10:29	0.0	0.0	0.0
165	06/22/2009 10:30	0.0	0.0	0.0
166	06/22/2009 10:31	0.0	0.0	0.0
167	06/22/2009 10:32	0.0	0.0	0.0
168	06/22/2009 10:33	0.0	0.0	0.0
169	06/22/2009 10:34	0.0	0.0	0.0
170	06/22/2009 10:35	0.0	0.0	0.0
171	06/22/2009 10:36	0.0	0.0	0.0
172	06/22/2009 10:37	0.0	0.0	0.0
173	06/22/2009 10:38	0.0	0.0	0.0
174	06/22/2009 10:39	0.0	0.0	0.0
175	06/22/2009 10:40	0.0	0.0	0.0
176	06/22/2009 10:41	0.0	0.0	0.0
177	06/22/2009 10:42	0.0	0.0	0.0
178	06/22/2009 10:43	0.0	0.0	0.0
179	06/22/2009 10:44	0.0	0.0	0.0
180	06/22/2009 10:45	0.0	0.0	0.0
181	06/22/2009 10:46	0.0	0.0	0.0
182	06/22/2009 10:47	0.0	0.0	0.0
183	06/22/2009 10:48	0.0	0.0	0.0
184	06/22/2009 10:49	0.0	0.0	0.0
185	06/22/2009 10:50	0.0	0.0	0.0
186	06/22/2009 10:51	0.0	0.0	0.0
187	06/22/2009 10:52	0.0	0.0	0.0
188	06/22/2009 10:53	0.0	0.0	0.0
189	06/22/2009 10:54	0.0	0.0	0.0
190	06/22/2009 10:55	0.0	0.0	0.0
191	06/22/2009 10:56	0.0	0.0	0.0
192	06/22/2009 10:57	0.0	0.0	0.0
193	06/22/2009 10:58	0.0	0.0	0.0
194	06/22/2009 10:59	0.0	0.0	0.0
195	06/22/2009 11:00	0.0	0.0	0.0
196	06/22/2009 11:01	0.0	0.0	0.0
197	06/22/2009 11:02	0.0	0.0	0.0

198	06/22/2009 11:03	0.0	0.0	0.0
199	06/22/2009 11:04	0.0	0.0	0.0
200	06/22/2009 11:05	0.0	0.0	0.0
201	06/22/2009 11:06	0.0	0.0	0.0
202	06/22/2009 11:07	0.0	0.0	0.0
203	06/22/2009 11:08	0.0	0.0	0.0
204	06/22/2009 11:09	0.0	0.0	0.0
205	06/22/2009 11:10	0.0	0.0	0.0
206	06/22/2009 11:11	0.0	0.0	0.0
207	06/22/2009 11:12	0.0	0.0	0.0
208	06/22/2009 11:13	0.0	0.0	0.0
209	06/22/2009 11:14	0.0	0.0	0.0
210	06/22/2009 11:15	0.0	0.0	0.0
211	06/22/2009 11:16	0.0	0.0	0.0
212	06/22/2009 11:17	0.0	0.0	0.0
213	06/22/2009 11:18	0.0	0.0	0.0
214	06/22/2009 11:19	0.0	0.0	0.0
215	06/22/2009 11:20	0.0	0.0	0.0
216	06/22/2009 11:21	0.0	0.0	0.0
217	06/22/2009 11:22	0.0	0.0	0.0
218	06/22/2009 11:23	0.0	0.0	0.0
219	06/22/2009 11:24	0.0	0.0	0.0
220	06/22/2009 11:25	0.0	0.0	0.0
221	06/22/2009 11:26	0.0	0.0	0.0
222	06/22/2009 11:27	0.0	0.0	0.0
223	06/22/2009 11:28	0.0	0.0	0.0
224	06/22/2009 11:29	0.0	0.0	0.0
225	06/22/2009 11:30	0.0	0.0	0.0
226	06/22/2009 11:31	0.0	0.0	0.0
227	06/22/2009 11:32	0.0	0.0	0.0
228	06/22/2009 11:33	0.0	0.0	0.0
229	06/22/2009 11:34	0.0	0.0	0.0
230	06/22/2009 11:35	0.0	0.0	0.0
231	06/22/2009 11:36	0.0	0.0	0.0
232	06/22/2009 11:37	0.0	0.0	0.0
233	06/22/2009 11:38	0.0	0.0	0.0
234	06/22/2009 11:39	0.0	0.0	0.0
235	06/22/2009 11:40	0.0	0.0	0.0
236	06/22/2009 11:41	0.0	0.0	0.0
237	06/22/2009 11:42	0.0	0.0	0.0
238	06/22/2009 11:43	0.0	0.0	0.0
239	06/22/2009 11:44	0.0	0.0	0.0
240	06/22/2009 11:45	0.0	0.0	0.0
241	06/22/2009 11:46	0.0	0.0	0.0
242	06/22/2009 11:47	0.0	0.0	0.0
243	06/22/2009 11:48	0.0	0.0	0.0
244	06/22/2009 11:49	0.0	0.0	0.0
245	06/22/2009 11:50	0.0	0.0	0.0
246	06/22/2009 11:51	0.0	0.0	0.0
247	06/22/2009 11:52	0.0	0.0	0.0
248	06/22/2009 11:53	0.0	0.0	0.0
249	06/22/2009 11:54	0.0	0.0	0.0

250	06/22/2009 11:55	0.0	0.0	0.0
251	06/22/2009 11:56	0.0	0.0	0.0
252	06/22/2009 11:57	0.0	0.0	0.0
253	06/22/2009 11:58	0.0	0.0	0.0
254	06/22/2009 11:59	0.0	0.0	0.0
255	06/22/2009 12:00	0.0	0.0	0.0
256	06/22/2009 12:01	0.0	0.0	0.0
257	06/22/2009 12:02	0.0	0.0	0.0
258	06/22/2009 12:03	0.0	0.0	0.0
259	06/22/2009 12:04	0.0	0.0	0.0
260	06/22/2009 12:05	0.0	0.0	0.0
261	06/22/2009 12:06	0.0	0.0	0.0
262	06/22/2009 12:07	0.0	0.0	0.0
263	06/22/2009 12:08	0.0	0.0	0.5
264	06/22/2009 12:09	0.0	0.0	0.0
265	06/22/2009 12:10	0.0	0.0	0.0
266	06/22/2009 12:11	0.0	0.0	0.0
267	06/22/2009 12:12	0.0	0.0	0.0
268	06/22/2009 12:13	0.0	0.0	0.0
269	06/22/2009 12:14	0.0	0.0	0.0
270	06/22/2009 12:15	0.0	0.0	0.0
271	06/22/2009 12:16	0.0	0.0	0.0
272	06/22/2009 12:17	0.0	0.0	0.0
273	06/22/2009 12:18	0.0	0.0	0.0
274	06/22/2009 12:19	0.0	0.0	0.0
275	06/22/2009 12:20	0.0	0.0	0.0
276	06/22/2009 12:21	0.0	0.0	0.0
277	06/22/2009 12:22	0.0	0.0	0.0
278	06/22/2009 12:23	0.0	0.0	0.0
279	06/22/2009 12:24	0.0	0.0	0.0
280	06/22/2009 12:25	0.0	0.0	0.0
281	06/22/2009 12:26	0.0	0.0	0.0
282	06/22/2009 12:27	0.0	0.0	0.0
283	06/22/2009 12:28	0.0	0.0	0.0
284	06/22/2009 12:29	0.0	0.0	0.0
285	06/22/2009 12:30	0.0	0.0	0.0
286	06/22/2009 12:31	0.0	0.0	0.0
287	06/22/2009 12:32	0.0	0.0	0.0
288	06/22/2009 12:33	0.0	0.0	0.0
289	06/22/2009 12:34	0.0	0.0	0.0
290	06/22/2009 12:35	0.0	0.0	0.0
291	06/22/2009 12:36	0.0	0.0	0.0
292	06/22/2009 12:37	0.0	0.0	0.0
293	06/22/2009 12:38	0.0	0.0	0.0
294	06/22/2009 12:39	0.0	0.0	0.0
295	06/22/2009 12:40	0.0	0.0	0.0
296	06/22/2009 12:41	0.0	0.0	0.0
297	06/22/2009 12:42	0.0	0.0	0.0
298	06/22/2009 12:43	0.0	0.0	0.0
299	06/22/2009 12:44	0.0	0.0	0.0
300	06/22/2009 12:45	0.0	0.0	0.0
301	06/22/2009 12:46	0.0	0.0	0.0

302	06/22/2009 12:47	0.0	0.0	0.0
303	06/22/2009 12:48	0.0	0.0	0.0
304	06/22/2009 12:49	0.0	0.0	0.0
305	06/22/2009 12:50	0.0	0.0	0.0
306	06/22/2009 12:51	0.0	0.0	0.0
307	06/22/2009 12:52	0.0	0.0	0.0
308	06/22/2009 12:53	0.0	0.0	0.0
309	06/22/2009 12:54	0.0	0.0	0.0
310	06/22/2009 12:55	0.0	0.0	0.0
311	06/22/2009 12:56	0.0	0.0	0.0
312	06/22/2009 12:57	0.0	0.0	0.0
313	06/22/2009 12:58	0.0	0.0	0.0
314	06/22/2009 12:59	0.0	0.0	0.0
315	06/22/2009 13:00	0.0	0.0	0.0
316	06/22/2009 13:01	0.0	0.0	0.0
317	06/22/2009 13:02	0.0	0.0	0.0
318	06/22/2009 13:03	0.0	0.0	0.0
319	06/22/2009 13:04	0.0	0.0	0.0
320	06/22/2009 13:05	0.0	0.0	0.0
321	06/22/2009 13:06	0.0	0.0	0.0
322	06/22/2009 13:07	0.0	0.0	0.0
323	06/22/2009 13:08	0.0	0.0	0.0
324	06/22/2009 13:09	0.0	0.0	0.0
325	06/22/2009 13:10	0.0	0.0	0.0
326	06/22/2009 13:11	0.0	0.0	0.0
327	06/22/2009 13:12	0.0	0.0	0.0
328	06/22/2009 13:13	0.0	0.0	0.0
329	06/22/2009 13:14	0.0	0.0	0.0
330	06/22/2009 13:15	0.0	0.0	0.0
331	06/22/2009 13:16	0.0	0.0	0.0
332	06/22/2009 13:17	0.0	0.0	0.0
333	06/22/2009 13:18	0.0	0.0	0.0
334	06/22/2009 13:19	0.0	0.0	0.0
335	06/22/2009 13:20	0.0	0.0	0.0
336	06/22/2009 13:21	0.0	0.0	0.0
337	06/22/2009 13:22	0.0	0.0	0.0
338	06/22/2009 13:23	0.0	0.0	0.0
339	06/22/2009 13:24	0.0	0.0	0.0
340	06/22/2009 13:25	0.0	0.0	0.0
341	06/22/2009 13:26	0.0	0.0	0.0
342	06/22/2009 13:27	0.0	0.0	0.0
343	06/22/2009 13:28	0.0	0.0	0.0
344	06/22/2009 13:29	0.0	0.0	0.5
345	06/22/2009 13:30	0.0	0.0	0.0
346	06/22/2009 13:31	0.0	0.0	0.0
347	06/22/2009 13:32	0.0	0.0	0.0
348	06/22/2009 13:33	0.0	0.0	0.0
349	06/22/2009 13:34	0.0	0.0	0.0
350	06/22/2009 13:35	0.0	0.0	0.0
351	06/22/2009 13:36	0.0	0.0	0.0
352	06/22/2009 13:37	0.0	0.0	0.0
353	06/22/2009 13:38	0.0	0.0	0.0

354	06/22/2009 13:39	0.0	0.0	0.0
355	06/22/2009 13:40	0.0	0.0	0.0
356	06/22/2009 13:41	0.0	0.0	0.0
357	06/22/2009 13:42	0.0	0.0	0.0
358	06/22/2009 13:43	0.0	0.0	0.3
359	06/22/2009 13:44	0.0	0.0	0.0
360	06/22/2009 13:45	0.0	0.0	0.0
361	06/22/2009 13:46	0.0	0.0	0.0
362	06/22/2009 13:47	0.0	0.0	0.0
363	06/22/2009 13:48	0.0	0.0	0.5
364	06/22/2009 13:49	0.0	0.0	0.0
365	06/22/2009 13:50	0.0	0.0	0.0
366	06/22/2009 13:51	0.0	0.0	0.0
367	06/22/2009 13:52	0.0	0.0	0.0
368	06/22/2009 13:53	0.0	0.0	0.0
369	06/22/2009 13:54	0.0	0.0	0.0
370	06/22/2009 13:55	0.0	0.0	0.0
371	06/22/2009 13:56	0.0	0.0	0.0
372	06/22/2009 13:57	0.0	0.0	0.0
373	06/22/2009 13:58	0.0	0.0	0.0
374	06/22/2009 13:59	0.0	0.0	0.0
375	06/22/2009 14:00	0.0	0.0	0.0
376	06/22/2009 14:01	0.0	0.0	0.0
377	06/22/2009 14:02	0.0	0.0	0.0
378	06/22/2009 14:03	0.0	0.0	0.0
379	06/22/2009 14:04	0.0	0.0	0.0
380	06/22/2009 14:05	0.0	0.0	0.0
381	06/22/2009 14:06	0.0	0.0	0.0
382	06/22/2009 14:07	0.0	0.0	0.0
383	06/22/2009 14:08	0.0	0.0	0.0
384	06/22/2009 14:09	0.0	0.0	0.0
385	06/22/2009 14:10	0.0	0.0	0.0
386	06/22/2009 14:11	0.0	0.0	0.0
387	06/22/2009 14:12	0.0	0.0	0.0
388	06/22/2009 14:13	0.0	0.0	0.0
389	06/22/2009 14:14	0.0	0.0	0.0
390	06/22/2009 14:15	0.0	0.0	0.0
391	06/22/2009 14:16	0.0	0.0	0.0
392	06/22/2009 14:17	0.0	0.0	0.0
393	06/22/2009 14:18	0.0	0.0	0.0
394	06/22/2009 14:19	0.0	0.0	0.0
395	06/22/2009 14:20	0.0	0.0	0.0
396	06/22/2009 14:21	0.0	0.0	0.0
397	06/22/2009 14:22	0.0	0.0	0.0
398	06/22/2009 14:23	0.0	0.0	0.0
399	06/22/2009 14:24	0.0	0.0	0.0
400	06/22/2009 14:25	0.0	0.0	0.0
401	06/22/2009 14:26	0.0	0.0	0.0
402	06/22/2009 14:27	0.0	0.0	0.0
403	06/22/2009 14:28	0.0	0.0	0.0
404	06/22/2009 14:29	0.0	0.0	0.0
405	06/22/2009 14:30	0.0	0.0	0.0



406	06/22/2009 14:31	0.0	0.0	0.0
407	06/22/2009 14:32	0.0	0.0	0.0
408	06/22/2009 14:33	0.0	0.0	0.0
409	06/22/2009 14:34	0.0	0.0	0.0
410	06/22/2009 14:35	0.0	0.0	0.0
411	06/22/2009 14:36	0.0	0.0	0.0
412	06/22/2009 14:37	0.0	0.0	0.0
413	06/22/2009 14:38	0.0	0.0	0.0
414	06/22/2009 14:39	0.0	0.0	0.0
415	06/22/2009 14:40	0.0	0.0	0.0
416	06/22/2009 14:41	0.0	0.0	0.0
417	06/22/2009 14:42	0.0	0.0	0.0
418	06/22/2009 14:43	0.0	0.0	0.0
419	06/22/2009 14:44	0.0	0.0	0.0
420	06/22/2009 14:45	0.0	0.0	0.0
421	06/22/2009 14:46	0.0	0.0	0.0
422	06/22/2009 14:47	0.0	0.0	0.0
423	06/22/2009 14:48	0.0	0.0	0.0
424	06/22/2009 14:49	0.0	0.0	0.0
425	06/22/2009 14:50	0.0	0.0	0.0
426	06/22/2009 14:51	0.0	0.0	0.0
427	06/22/2009 14:52	0.0	0.0	0.0
428	06/22/2009 14:53	0.0	0.0	0.0
429	06/22/2009 14:54	0.0	0.0	0.0
430	06/22/2009 14:55	0.0	0.0	0.0
431	06/22/2009 14:56	0.0	0.0	0.0
432	06/22/2009 14:57	0.0	0.0	0.0
433	06/22/2009 14:58	0.0	0.0	0.0
434	06/22/2009 14:59	0.0	0.0	0.0
435	06/22/2009 15:00	0.0	0.0	0.0
436	06/22/2009 15:01	0.0	0.0	0.0
437	06/22/2009 15:02	0.0	0.0	0.0
438	06/22/2009 15:03	0.0	0.0	0.0
439	06/22/2009 15:04	0.0	0.0	0.0
440	06/22/2009 15:05	0.0	0.0	0.0
441	06/22/2009 15:06	0.0	0.0	0.0
442	06/22/2009 15:07	0.0	0.0	0.0
443	06/22/2009 15:08	0.0	0.0	0.0
444	06/22/2009 15:09	0.0	0.0	0.0
445	06/22/2009 15:10	0.0	0.0	0.0
446	06/22/2009 15:11	0.0	0.0	0.0
447	06/22/2009 15:12	0.0	0.0	0.0
448	06/22/2009 15:13	0.0	0.0	0.0
449	06/22/2009 15:14	0.0	0.0	0.0
450	06/22/2009 15:15	0.0	0.0	0.0
451	06/22/2009 15:16	0.0	0.0	0.0
452	06/22/2009 15:17	0.0	0.0	0.0
453	06/22/2009 15:18	0.0	0.0	0.0
454	06/22/2009 15:19	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 291 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/18/2009 14:19

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 06/23/2009 09:44      0.0      0.0      0.0
2 06/23/2009 09:45      0.0      0.0      0.0
3 06/23/2009 09:46      0.0      0.0      0.0
4 06/23/2009 09:47      0.0      0.0      0.0
5 06/23/2009 09:48      0.0      0.0      0.0
6 06/23/2009 09:49      0.0      0.0      0.0
7 06/23/2009 09:50      0.0      0.0      0.0
8 06/23/2009 09:51      0.0      0.0      0.0
9 06/23/2009 09:52      0.0      0.0      0.0
10 06/23/2009 09:53      0.0      0.0      0.0
11 06/23/2009 09:54      0.0      0.0      0.0
12 06/23/2009 09:55      0.0      0.0      0.0
13 06/23/2009 09:56      0.0      0.0      0.0
14 06/23/2009 09:57      0.0      0.0      0.0
15 06/23/2009 09:58      0.0      0.0      0.0
16 06/23/2009 09:59      0.0      0.0      0.0
17 06/23/2009 10:00      0.0      0.0      0.0
18 06/23/2009 10:01      0.0      0.0      0.0
19 06/23/2009 10:02      0.0      0.0      0.0
20 06/23/2009 10:03      0.0      0.0      0.0
21 06/23/2009 10:04      0.0      0.0      0.0
22 06/23/2009 10:05      0.0      0.0      0.0
23 06/23/2009 10:06      0.0      0.0      0.0
24 06/23/2009 10:07      0.0      0.0      0.0
25 06/23/2009 10:08      0.0      0.0      0.0
26 06/23/2009 10:09      0.0      0.0      0.0
27 06/23/2009 10:10      0.0      0.0      0.0
28 06/23/2009 10:11      0.0      0.0      0.0
29 06/23/2009 10:12      0.0      0.0      0.0
30 06/23/2009 10:13      0.0      0.0      0.0
31 06/23/2009 10:14      0.0      0.0      0.0
32 06/23/2009 10:15      0.0      0.0      0.0
33 06/23/2009 10:16      0.0      0.0      0.0
34 06/23/2009 10:17      0.0      0.0      0.0
35 06/23/2009 10:18      0.0      0.0      0.0
36 06/23/2009 10:19      0.0      0.0      0.0
37 06/23/2009 10:20      0.0      0.0      0.0
38 06/23/2009 10:21      0.0      0.0      0.0
39 06/23/2009 10:22      0.0      0.0      0.0
40 06/23/2009 10:23      0.0      0.0      0.0
41 06/23/2009 10:24      0.0      0.0      0.0
```

42	06/23/2009 10:25	0.0	0.0	0.0
43	06/23/2009 10:26	0.0	0.0	0.0
44	06/23/2009 10:27	0.0	0.0	0.0
45	06/23/2009 10:28	0.0	0.0	0.0
46	06/23/2009 10:29	0.0	0.0	0.0
47	06/23/2009 10:30	0.0	0.0	0.0
48	06/23/2009 10:31	0.0	0.0	0.0
49	06/23/2009 10:32	0.0	0.0	0.0
50	06/23/2009 10:33	0.0	0.0	0.0
51	06/23/2009 10:34	0.0	0.0	0.0
52	06/23/2009 10:35	0.0	0.0	0.0
53	06/23/2009 10:36	0.0	0.0	0.0
54	06/23/2009 10:37	0.0	0.0	0.0
55	06/23/2009 10:38	0.0	0.0	0.0
56	06/23/2009 10:39	0.0	0.0	0.0
57	06/23/2009 10:40	0.0	0.0	0.0
58	06/23/2009 10:41	0.0	0.0	0.0
59	06/23/2009 10:42	0.0	0.0	0.0
60	06/23/2009 10:43	0.0	0.0	0.0
61	06/23/2009 10:44	0.0	0.0	0.0
62	06/23/2009 10:45	0.0	0.0	0.0
63	06/23/2009 10:46	0.0	0.0	0.0
64	06/23/2009 10:47	0.0	0.0	0.0
65	06/23/2009 10:48	0.0	0.0	0.0
66	06/23/2009 10:49	0.0	0.0	0.0
67	06/23/2009 10:50	0.0	0.0	0.0
68	06/23/2009 10:51	0.0	0.0	0.0
69	06/23/2009 10:52	0.0	0.0	0.0
70	06/23/2009 10:53	0.0	0.0	0.0
71	06/23/2009 10:54	0.0	0.0	0.0
72	06/23/2009 10:55	0.0	0.0	0.0
73	06/23/2009 10:56	0.0	0.0	0.0
74	06/23/2009 10:57	0.0	0.0	0.0
75	06/23/2009 10:58	0.0	0.0	0.0
76	06/23/2009 10:59	0.0	0.0	0.0
77	06/23/2009 11:00	0.0	0.0	0.0
78	06/23/2009 11:01	0.0	0.0	0.0
79	06/23/2009 11:02	0.0	0.0	0.0
80	06/23/2009 11:03	0.0	0.0	0.0
81	06/23/2009 11:04	0.0	0.0	0.0
82	06/23/2009 11:05	0.0	0.0	0.0
83	06/23/2009 11:06	0.0	0.0	0.0
84	06/23/2009 11:07	0.0	0.0	0.0
85	06/23/2009 11:08	0.0	0.0	0.0
86	06/23/2009 11:09	0.0	0.0	0.0
87	06/23/2009 11:10	0.0	0.0	0.0
88	06/23/2009 11:11	0.0	0.0	0.0
89	06/23/2009 11:12	0.0	0.0	0.0
90	06/23/2009 11:13	0.0	0.0	0.0
91	06/23/2009 11:14	0.0	0.0	0.0
92	06/23/2009 11:15	0.0	0.0	0.0
93	06/23/2009 11:16	0.0	0.0	0.0

94	06/23/2009 11:17	0.0	0.0	0.0
95	06/23/2009 11:18	0.0	0.0	0.0
96	06/23/2009 11:19	0.0	0.0	0.0
97	06/23/2009 11:20	0.0	0.0	0.0
98	06/23/2009 11:21	0.0	0.0	0.0
99	06/23/2009 11:22	0.0	0.0	0.0
100	06/23/2009 11:23	0.0	0.0	0.0
101	06/23/2009 11:24	0.0	0.0	0.0
102	06/23/2009 11:25	0.0	0.0	0.0
103	06/23/2009 11:26	0.0	0.0	0.0
104	06/23/2009 11:27	0.0	0.0	0.0
105	06/23/2009 11:28	0.0	0.0	0.0
106	06/23/2009 11:29	0.0	0.0	0.0
107	06/23/2009 11:30	0.0	0.0	0.0
108	06/23/2009 11:31	0.0	0.0	0.0
109	06/23/2009 11:32	0.0	0.0	0.0
110	06/23/2009 11:33	0.0	0.0	0.0
111	06/23/2009 11:34	0.0	0.0	0.0
112	06/23/2009 11:35	0.0	0.0	0.0
113	06/23/2009 11:36	0.0	0.0	0.0
114	06/23/2009 11:37	0.0	0.0	0.0
115	06/23/2009 11:38	0.0	0.0	0.0
116	06/23/2009 11:39	0.0	0.0	0.0
117	06/23/2009 11:40	0.0	0.0	0.0
118	06/23/2009 11:41	0.0	0.0	0.0
119	06/23/2009 11:42	0.0	0.0	0.1
120	06/23/2009 11:43	0.0	0.0	0.0
121	06/23/2009 11:44	0.0	0.0	0.0
122	06/23/2009 11:45	0.0	0.0	0.0
123	06/23/2009 11:46	0.0	0.0	0.0
124	06/23/2009 11:47	0.0	0.0	0.0
125	06/23/2009 11:48	0.0	0.0	0.0
126	06/23/2009 11:49	0.0	0.0	0.0
127	06/23/2009 11:50	0.0	0.0	0.0
128	06/23/2009 11:51	0.0	0.0	0.0
129	06/23/2009 11:52	0.0	0.0	0.0
130	06/23/2009 11:53	0.0	0.0	0.0
131	06/23/2009 11:54	0.0	0.0	0.0
132	06/23/2009 11:55	0.0	0.0	0.0
133	06/23/2009 11:56	0.0	0.0	0.0
134	06/23/2009 11:57	0.0	0.0	0.0
135	06/23/2009 11:58	0.0	0.0	0.0
136	06/23/2009 11:59	0.0	0.0	0.0
137	06/23/2009 12:00	0.0	0.0	0.0
138	06/23/2009 12:01	0.0	0.0	0.0
139	06/23/2009 12:02	0.0	0.0	0.0
140	06/23/2009 12:03	0.0	0.0	0.0
141	06/23/2009 12:04	0.0	0.0	0.0
142	06/23/2009 12:05	0.0	0.0	0.0
143	06/23/2009 12:06	0.0	0.0	0.0
144	06/23/2009 12:07	0.0	0.0	0.0
145	06/23/2009 12:08	0.0	0.0	0.0

146	06/23/2009 12:09	0.0	0.0	0.0
147	06/23/2009 12:10	0.0	0.0	0.0
148	06/23/2009 12:11	0.0	0.0	0.0
149	06/23/2009 12:12	0.0	0.0	0.0
150	06/23/2009 12:13	0.0	0.0	0.2
151	06/23/2009 12:14	0.0	0.0	0.0
152	06/23/2009 12:15	0.0	0.0	0.0
153	06/23/2009 12:16	0.0	0.0	0.0
154	06/23/2009 12:17	0.0	0.0	0.0
155	06/23/2009 12:18	0.0	0.0	0.0
156	06/23/2009 12:19	0.0	0.0	0.0
157	06/23/2009 12:20	0.0	0.0	0.0
158	06/23/2009 12:21	0.0	0.0	0.0
159	06/23/2009 12:22	0.0	0.0	0.0
160	06/23/2009 12:23	0.0	0.0	0.0
161	06/23/2009 12:24	0.0	0.0	0.0
162	06/23/2009 12:25	0.0	0.0	0.0
163	06/23/2009 12:26	0.0	0.0	0.0
164	06/23/2009 12:27	0.0	0.0	0.0
165	06/23/2009 12:28	0.0	0.0	0.0
166	06/23/2009 12:29	0.0	0.0	0.0
167	06/23/2009 12:30	0.0	0.0	0.0
168	06/23/2009 12:31	0.0	0.0	0.0
169	06/23/2009 12:32	0.0	0.0	0.0
170	06/23/2009 12:33	0.0	0.0	0.0
171	06/23/2009 12:34	0.0	0.0	0.0
172	06/23/2009 12:35	0.0	0.0	0.0
173	06/23/2009 12:36	0.0	0.0	0.0
174	06/23/2009 12:37	0.0	0.0	0.0
175	06/23/2009 12:38	0.0	0.0	0.0
176	06/23/2009 12:39	0.0	0.0	0.0
177	06/23/2009 12:40	0.0	0.0	0.0
178	06/23/2009 12:41	0.0	0.0	0.0
179	06/23/2009 12:42	0.0	0.0	0.0
180	06/23/2009 12:43	0.0	0.0	0.0
181	06/23/2009 12:44	0.0	0.0	0.0
182	06/23/2009 12:45	0.0	0.0	0.0
183	06/23/2009 12:46	0.0	0.0	0.0
184	06/23/2009 12:47	0.0	0.0	0.0
185	06/23/2009 12:48	0.0	0.0	0.0
186	06/23/2009 12:49	0.0	0.0	0.0
187	06/23/2009 12:50	0.0	0.0	0.0
188	06/23/2009 12:51	0.0	0.0	0.0
189	06/23/2009 12:52	0.0	0.0	0.0
190	06/23/2009 12:53	0.0	0.0	0.0
191	06/23/2009 12:54	0.0	0.0	0.0
192	06/23/2009 12:55	0.0	0.0	0.0
193	06/23/2009 12:56	0.0	0.0	0.0
194	06/23/2009 12:57	0.0	0.0	0.0
195	06/23/2009 12:58	0.0	0.0	0.0
196	06/23/2009 12:59	0.0	0.0	0.0
197	06/23/2009 13:00	0.0	0.0	0.0

198	06/23/2009 13:01	0.0	0.0	0.0
199	06/23/2009 13:02	0.0	0.0	0.0
200	06/23/2009 13:03	0.0	0.0	0.0
201	06/23/2009 13:04	0.0	0.0	0.2
202	06/23/2009 13:05	0.0	0.0	0.0
203	06/23/2009 13:06	0.0	0.0	0.0
204	06/23/2009 13:07	0.0	0.0	0.0
205	06/23/2009 13:08	0.0	0.0	0.0
206	06/23/2009 13:09	0.0	0.0	0.0
207	06/23/2009 13:10	0.0	0.0	0.0
208	06/23/2009 13:11	0.0	0.0	0.0
209	06/23/2009 13:12	0.0	0.0	0.0
210	06/23/2009 13:13	0.0	0.0	0.0
211	06/23/2009 13:14	0.0	0.0	0.0
212	06/23/2009 13:15	0.0	0.0	0.0
213	06/23/2009 13:16	0.0	0.0	0.0
214	06/23/2009 13:17	0.0	0.0	0.0
215	06/23/2009 13:18	0.0	0.0	0.0
216	06/23/2009 13:19	0.0	0.0	0.0
217	06/23/2009 13:20	0.0	0.0	0.0
218	06/23/2009 13:21	0.0	0.0	0.0
219	06/23/2009 13:22	0.0	0.0	0.0
220	06/23/2009 13:23	0.0	0.0	0.0
221	06/23/2009 13:24	0.0	0.0	0.0
222	06/23/2009 13:25	0.0	0.0	0.0
223	06/23/2009 13:26	0.0	0.0	0.0
224	06/23/2009 13:27	0.0	0.0	0.0
225	06/23/2009 13:28	0.0	0.0	0.0
226	06/23/2009 13:29	0.0	0.0	0.0
227	06/23/2009 13:30	0.0	0.0	0.0
228	06/23/2009 13:31	0.0	0.0	0.7
229	06/23/2009 13:32	0.0	0.0	0.0
230	06/23/2009 13:33	0.0	0.0	0.0
231	06/23/2009 13:34	0.0	0.0	0.0
232	06/23/2009 13:35	0.0	0.0	0.0
233	06/23/2009 13:36	0.0	0.0	0.0
234	06/23/2009 13:37	0.0	0.0	0.0
235	06/23/2009 13:38	0.0	0.0	0.0
236	06/23/2009 13:39	0.0	0.0	0.3
237	06/23/2009 13:40	0.0	0.0	0.3
238	06/23/2009 13:41	0.0	0.0	0.0
239	06/23/2009 13:42	0.0	0.0	0.0
240	06/23/2009 13:43	0.0	0.0	0.0
241	06/23/2009 13:44	0.0	0.0	0.0
242	06/23/2009 13:45	0.0	0.0	0.0
243	06/23/2009 13:46	0.0	0.0	0.0
244	06/23/2009 13:47	0.0	0.0	0.0
245	06/23/2009 13:48	0.0	0.0	0.0
246	06/23/2009 13:49	0.0	0.0	0.0
247	06/23/2009 13:50	0.0	0.0	0.0
248	06/23/2009 13:51	0.0	0.0	0.0
249	06/23/2009 13:52	0.0	0.0	0.0

250	06/23/2009 13:53	0.0	0.0	0.0
251	06/23/2009 13:54	0.0	0.0	0.0
252	06/23/2009 13:55	0.0	0.0	0.0
253	06/23/2009 13:56	0.0	0.0	0.0
254	06/23/2009 13:57	0.0	0.0	0.0
255	06/23/2009 13:58	0.0	0.0	0.1
256	06/23/2009 13:59	0.0	0.0	0.0
257	06/23/2009 14:00	0.0	0.0	0.0
258	06/23/2009 14:01	0.0	0.0	0.0
259	06/23/2009 14:02	0.0	0.0	0.0
260	06/23/2009 14:03	0.0	0.0	0.0
261	06/23/2009 14:04	0.0	0.0	0.0
262	06/23/2009 14:05	0.0	0.0	0.0
263	06/23/2009 14:06	0.0	0.0	0.0
264	06/23/2009 14:07	0.0	0.0	0.4
265	06/23/2009 14:08	0.0	0.0	0.0
266	06/23/2009 14:09	0.0	0.0	0.0
267	06/23/2009 14:10	0.0	0.0	0.0
268	06/23/2009 14:11	0.0	0.0	0.3
269	06/23/2009 14:12	0.0	0.0	0.5
270	06/23/2009 14:13	0.0	0.0	0.1
271	06/23/2009 14:14	0.0	0.0	0.0
272	06/23/2009 14:15	0.0	0.0	0.0
273	06/23/2009 14:16	0.0	0.0	0.0
274	06/23/2009 14:17	0.0	0.0	0.2
275	06/23/2009 14:18	0.0	0.0	0.0
276	06/23/2009 14:19	0.0	0.0	0.0
277	06/23/2009 14:20	0.0	0.0	0.0
278	06/23/2009 14:21	0.0	0.0	0.0
279	06/23/2009 14:22	0.0	0.0	0.0
280	06/23/2009 14:23	0.0	0.0	0.0
281	06/23/2009 14:24	0.0	0.0	0.0
282	06/23/2009 14:25	0.0	0.0	0.0
283	06/23/2009 14:26	0.0	0.0	0.0
284	06/23/2009 14:27	0.0	0.0	0.0
285	06/23/2009 14:28	0.0	0.0	0.0
286	06/23/2009 14:29	0.0	0.0	0.0
287	06/23/2009 14:30	0.0	0.0	0.0
288	06/23/2009 14:31	0.0	0.0	0.0
289	06/23/2009 14:32	0.0	0.0	0.0
290	06/23/2009 14:33	0.0	0.0	0.0
291	06/23/2009 14:34	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 333 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/23/2009 09:19      0.0         0.0         0.0
2 06/23/2009 09:20      0.0         0.0         0.0
3 06/23/2009 09:21      0.0         0.0         0.0
4 06/23/2009 09:22      0.0         0.0         0.0
5 06/23/2009 09:23      0.0         0.0         0.0
6 06/23/2009 09:24      0.0         0.0         0.0
7 06/23/2009 09:25      0.0         0.0         0.0
8 06/23/2009 09:26      0.0         0.0         0.0
9 06/23/2009 09:27      0.0         0.0         0.2
10 06/23/2009 09:28      0.1         0.1         0.1
11 06/23/2009 09:29      0.0         0.1         0.2
12 06/23/2009 09:30      0.0         0.0         0.1
13 06/23/2009 09:31      0.0         0.0         0.1
14 06/23/2009 09:32      0.1         0.1         0.1
15 06/23/2009 09:33      0.1         0.1         0.1
16 06/23/2009 09:34      0.1         0.1         0.1
17 06/23/2009 09:35      0.1         0.1         0.1
18 06/23/2009 09:36      0.1         0.1         0.1
19 06/23/2009 09:37      0.1         0.1         0.1
20 06/23/2009 09:38      0.1         0.1         0.2
21 06/23/2009 09:39      0.1         0.1         0.2
22 06/23/2009 09:40      0.1         0.1         0.3
23 06/23/2009 09:41      0.2         0.2         0.2
24 06/23/2009 09:42      0.2         0.2         0.2
25 06/23/2009 09:43      0.2         0.2         0.2
26 06/23/2009 09:44      0.2         0.2         0.2
27 06/23/2009 09:45      0.2         0.2         0.2
28 06/23/2009 09:46      0.2         0.2         0.2
29 06/23/2009 09:47      0.2         0.2         0.2
30 06/23/2009 09:48      0.2         0.2         0.2
31 06/23/2009 09:49      0.2         0.2         0.2
32 06/23/2009 09:50      0.2         0.2         0.2
33 06/23/2009 09:51      0.2         0.2         0.2
34 06/23/2009 09:52      0.2         0.2         0.3
35 06/23/2009 09:53      0.2         0.2         0.3
36 06/23/2009 09:54      0.2         0.2         0.3
37 06/23/2009 09:55      0.2         0.2         0.3
38 06/23/2009 09:56      0.2         0.2         0.3
39 06/23/2009 09:57      0.2         0.2         0.3
40 06/23/2009 09:58      0.2         0.2         0.3
41 06/23/2009 09:59      0.2         0.2         0.3
```



42	06/23/2009 10:00	0.3	0.3	0.3
43	06/23/2009 10:01	0.3	0.3	0.3
44	06/23/2009 10:02	0.3	0.3	0.3
45	06/23/2009 10:03	0.3	0.3	0.3
46	06/23/2009 10:04	0.3	0.3	0.3
47	06/23/2009 10:05	0.3	0.3	0.3
48	06/23/2009 10:06	0.3	0.3	0.3
49	06/23/2009 10:07	0.3	0.3	0.3
50	06/23/2009 10:08	0.3	0.3	0.3
51	06/23/2009 10:09	0.3	0.3	0.3
52	06/23/2009 10:10	0.3	0.3	0.3
53	06/23/2009 10:11	0.3	0.3	0.3
54	06/23/2009 10:12	0.3	0.3	0.3
55	06/23/2009 10:13	0.3	0.3	0.3
56	06/23/2009 10:14	0.3	0.3	0.3
57	06/23/2009 10:15	0.3	0.3	0.3
58	06/23/2009 10:16	0.3	0.3	0.3
59	06/23/2009 10:17	0.3	0.3	0.3
60	06/23/2009 10:18	0.3	0.3	0.3
61	06/23/2009 10:19	0.3	0.3	0.3
62	06/23/2009 10:20	0.3	0.3	0.3
63	06/23/2009 10:21	0.3	0.3	0.3
64	06/23/2009 10:22	0.3	0.3	0.3
65	06/23/2009 10:23	0.3	0.3	0.3
66	06/23/2009 10:24	0.3	0.3	0.3
67	06/23/2009 10:25	0.3	0.3	0.4
68	06/23/2009 10:26	0.3	0.3	0.3
69	06/23/2009 10:27	0.3	0.3	0.3
70	06/23/2009 10:28	0.3	0.3	0.4
71	06/23/2009 10:29	0.3	0.3	0.4
72	06/23/2009 10:30	0.3	0.3	0.4
73	06/23/2009 10:31	0.3	0.3	0.4
74	06/23/2009 10:32	0.3	0.3	0.4
75	06/23/2009 10:33	0.3	0.3	0.4
76	06/23/2009 10:34	0.3	0.3	0.4
77	06/23/2009 10:35	0.3	0.3	0.4
78	06/23/2009 10:36	0.3	0.3	0.4
79	06/23/2009 10:37	0.4	0.4	0.4
80	06/23/2009 10:38	0.4	0.4	0.4
81	06/23/2009 10:39	0.4	0.4	0.4
82	06/23/2009 10:40	0.4	0.4	0.4
83	06/23/2009 10:41	0.4	0.4	0.4
84	06/23/2009 10:42	0.4	0.4	0.4
85	06/23/2009 10:43	0.4	0.4	0.4
86	06/23/2009 10:44	0.4	0.4	0.4
87	06/23/2009 10:45	0.4	0.4	0.4
88	06/23/2009 10:46	0.4	0.4	0.4
89	06/23/2009 10:47	0.4	0.4	0.4
90	06/23/2009 10:48	0.4	0.4	0.4
91	06/23/2009 10:49	0.4	0.4	0.4
92	06/23/2009 10:50	0.4	0.4	0.4
93	06/23/2009 10:51	0.4	0.4	0.4

94	06/23/2009 10:52	0.4	0.4	0.4
95	06/23/2009 10:53	0.4	0.4	0.4
96	06/23/2009 10:54	0.4	0.4	0.4
97	06/23/2009 10:55	0.4	0.4	0.4
98	06/23/2009 10:56	0.4	0.4	0.4
99	06/23/2009 10:57	0.4	0.4	0.4
100	06/23/2009 10:58	0.4	0.4	0.4
101	06/23/2009 10:59	0.4	0.4	0.4
102	06/23/2009 11:00	0.4	0.4	0.4
103	06/23/2009 11:01	0.4	0.4	0.4
104	06/23/2009 11:02	0.4	0.4	0.4
105	06/23/2009 11:03	0.4	0.4	0.4
106	06/23/2009 11:04	0.4	0.4	0.4
107	06/23/2009 11:05	0.4	0.4	0.4
108	06/23/2009 11:06	0.4	0.4	0.4
109	06/23/2009 11:07	0.4	0.4	0.4
110	06/23/2009 11:08	0.4	0.4	0.4
111	06/23/2009 11:09	0.4	0.4	0.4
112	06/23/2009 11:10	0.4	0.4	0.4
113	06/23/2009 11:11	0.4	0.4	0.4
114	06/23/2009 11:12	0.4	0.4	0.4
115	06/23/2009 11:13	0.4	0.4	0.4
116	06/23/2009 11:14	0.4	0.4	0.4
117	06/23/2009 11:15	0.4	0.4	0.4
118	06/23/2009 11:16	0.4	0.4	0.4
119	06/23/2009 11:17	0.4	0.4	0.4
120	06/23/2009 11:18	0.4	0.4	0.4
121	06/23/2009 11:19	0.4	0.4	0.4
122	06/23/2009 11:20	0.4	0.4	0.4
123	06/23/2009 11:21	0.4	0.4	0.4
124	06/23/2009 11:22	0.4	0.4	0.4
125	06/23/2009 11:23	0.4	0.4	0.4
126	06/23/2009 11:24	0.4	0.4	0.4
127	06/23/2009 11:25	0.4	0.4	0.4
128	06/23/2009 11:26	0.4	0.4	0.4
129	06/23/2009 11:27	0.4	0.4	0.4
130	06/23/2009 11:28	0.4	0.4	0.4
131	06/23/2009 11:29	0.4	0.4	0.4
132	06/23/2009 11:30	0.4	0.4	0.4
133	06/23/2009 11:31	0.4	0.4	0.4
134	06/23/2009 11:32	0.4	0.4	0.4
135	06/23/2009 11:33	0.4	0.4	0.4
136	06/23/2009 11:34	0.4	0.4	0.4
137	06/23/2009 11:35	0.4	0.4	0.4
138	06/23/2009 11:36	0.4	0.4	0.4
139	06/23/2009 11:37	0.4	0.4	0.4
140	06/23/2009 11:38	0.4	0.4	0.4
141	06/23/2009 11:39	0.4	0.4	0.4
142	06/23/2009 11:40	0.4	0.4	0.5
143	06/23/2009 11:41	0.4	0.4	0.5
144	06/23/2009 11:42	0.4	0.4	0.5
145	06/23/2009 11:43	0.4	0.4	0.4

146	06/23/2009 11:44	0.4	0.4	0.5
147	06/23/2009 11:45	0.4	0.4	0.5
148	06/23/2009 11:46	0.4	0.4	0.5
149	06/23/2009 11:47	0.4	0.4	0.5
150	06/23/2009 11:48	0.4	0.4	0.5
151	06/23/2009 11:49	0.4	0.4	0.5
152	06/23/2009 11:50	0.4	0.4	0.5
153	06/23/2009 11:51	0.4	0.4	0.5
154	06/23/2009 11:52	0.4	0.4	0.5
155	06/23/2009 11:53	0.4	0.4	0.5
156	06/23/2009 11:54	0.4	0.4	0.5
157	06/23/2009 11:55	0.4	0.4	0.5
158	06/23/2009 11:56	0.4	0.4	0.5
159	06/23/2009 11:57	0.4	0.4	0.5
160	06/23/2009 11:58	0.4	0.4	0.5
161	06/23/2009 11:59	0.4	0.4	0.5
162	06/23/2009 12:00	0.4	0.4	0.5
163	06/23/2009 12:01	0.4	0.4	0.5
164	06/23/2009 12:02	0.4	0.4	0.5
165	06/23/2009 12:03	0.4	0.4	0.5
166	06/23/2009 12:04	0.4	0.4	0.5
167	06/23/2009 12:05	0.4	0.4	0.5
168	06/23/2009 12:06	0.4	0.4	0.5
169	06/23/2009 12:07	0.4	0.4	0.5
170	06/23/2009 12:08	0.4	0.4	0.5
171	06/23/2009 12:09	0.4	0.4	0.5
172	06/23/2009 12:10	0.4	0.4	0.5
173	06/23/2009 12:11	0.4	0.4	0.5
174	06/23/2009 12:12	0.5	0.5	0.5
175	06/23/2009 12:13	0.4	0.4	0.5
176	06/23/2009 12:14	0.5	0.5	0.5
177	06/23/2009 12:15	0.5	0.5	0.5
178	06/23/2009 12:16	0.5	0.5	0.5
179	06/23/2009 12:17	0.5	0.5	0.5
180	06/23/2009 12:18	0.4	0.4	0.5
181	06/23/2009 12:19	0.4	0.4	0.5
182	06/23/2009 12:20	0.4	0.4	0.5
183	06/23/2009 12:21	0.4	0.4	0.5
184	06/23/2009 12:22	0.4	0.4	0.5
185	06/23/2009 12:23	0.4	0.4	0.5
186	06/23/2009 12:24	0.4	0.4	0.5
187	06/23/2009 12:25	0.4	0.4	0.5
188	06/23/2009 12:26	0.4	0.4	0.5
189	06/23/2009 12:27	0.4	0.4	0.5
190	06/23/2009 12:28	0.4	0.4	0.5
191	06/23/2009 12:29	0.4	0.4	0.5
192	06/23/2009 12:30	0.5	0.5	0.5
193	06/23/2009 12:31	0.5	0.5	0.5
194	06/23/2009 12:32	0.4	0.4	0.5
195	06/23/2009 12:33	0.4	0.4	0.5
196	06/23/2009 12:34	0.5	0.5	0.5
197	06/23/2009 12:35	0.5	0.5	0.5

198	06/23/2009 12:36	0.5	0.5	0.5
199	06/23/2009 12:37	0.5	0.5	0.5
200	06/23/2009 12:38	0.5	0.5	0.5
201	06/23/2009 12:39	0.5	0.5	0.5
202	06/23/2009 12:40	0.5	0.5	0.5
203	06/23/2009 12:41	0.5	0.5	0.5
204	06/23/2009 12:42	0.5	0.5	0.5
205	06/23/2009 12:43	0.5	0.5	0.5
206	06/23/2009 12:44	0.5	0.5	0.5
207	06/23/2009 12:45	0.5	0.5	0.5
208	06/23/2009 12:46	0.5	0.5	0.5
209	06/23/2009 12:47	0.5	0.5	0.5
210	06/23/2009 12:48	0.5	0.5	0.5
211	06/23/2009 12:49	0.5	0.5	0.5
212	06/23/2009 12:50	0.5	0.5	0.5
213	06/23/2009 12:51	0.5	0.5	0.5
214	06/23/2009 12:52	0.5	0.5	0.5
215	06/23/2009 12:53	0.4	0.4	0.5
216	06/23/2009 12:54	0.4	0.4	0.5
217	06/23/2009 12:55	0.5	0.5	0.5
218	06/23/2009 12:56	0.5	0.5	0.5
219	06/23/2009 12:57	0.4	0.4	0.5
220	06/23/2009 12:58	0.5	0.5	0.5
221	06/23/2009 12:59	0.5	0.5	0.5
222	06/23/2009 13:00	0.5	0.5	0.5
223	06/23/2009 13:01	0.5	0.5	0.5
224	06/23/2009 13:02	0.5	0.5	0.5
225	06/23/2009 13:03	0.5	0.5	0.5
226	06/23/2009 13:04	0.5	0.5	0.5
227	06/23/2009 13:05	0.4	0.4	0.5
228	06/23/2009 13:06	0.5	0.5	0.5
229	06/23/2009 13:07	0.5	0.5	0.5
230	06/23/2009 13:08	0.5	0.5	0.5
231	06/23/2009 13:09	0.5	0.5	0.5
232	06/23/2009 13:10	0.5	0.5	0.5
233	06/23/2009 13:11	0.5	0.5	0.5
234	06/23/2009 13:12	0.5	0.5	0.5
235	06/23/2009 13:13	0.5	0.5	0.5
236	06/23/2009 13:14	0.5	0.5	0.5
237	06/23/2009 13:15	0.4	0.4	0.5
238	06/23/2009 13:16	0.4	0.4	0.5
239	06/23/2009 13:17	0.4	0.4	0.5
240	06/23/2009 13:18	0.4	0.4	0.5
241	06/23/2009 13:19	0.5	0.5	0.5
242	06/23/2009 13:20	0.5	0.5	0.5
243	06/23/2009 13:21	0.5	0.5	0.5
244	06/23/2009 13:22	0.5	0.5	0.5
245	06/23/2009 13:23	0.5	0.5	0.5
246	06/23/2009 13:24	0.5	0.5	0.5
247	06/23/2009 13:25	0.5	0.5	0.5
248	06/23/2009 13:26	0.5	0.5	0.5
249	06/23/2009 13:27	0.5	0.5	0.5

250	06/23/2009 13:28	0.5	0.5	0.5
251	06/23/2009 13:29	0.5	0.5	0.5
252	06/23/2009 13:30	0.5	0.5	0.5
253	06/23/2009 13:31	0.5	0.5	0.5
254	06/23/2009 13:32	0.5	0.5	0.5
255	06/23/2009 13:33	0.5	0.5	0.5
256	06/23/2009 13:34	0.5	0.5	0.5
257	06/23/2009 13:35	0.4	0.4	0.5
258	06/23/2009 13:36	0.5	0.5	0.5
259	06/23/2009 13:37	0.5	0.5	0.5
260	06/23/2009 13:38	0.4	0.4	0.5
261	06/23/2009 13:39	0.4	0.4	0.5
262	06/23/2009 13:40	0.5	0.5	0.5
263	06/23/2009 13:41	0.5	0.5	0.5
264	06/23/2009 13:42	0.5	0.5	0.5
265	06/23/2009 13:43	0.5	0.5	0.5
266	06/23/2009 13:44	0.5	0.5	0.5
267	06/23/2009 13:45	0.5	0.5	0.5
268	06/23/2009 13:46	0.5	0.5	0.5
269	06/23/2009 13:47	0.5	0.5	0.5
270	06/23/2009 13:48	0.5	0.5	0.5
271	06/23/2009 13:49	0.4	0.4	0.5
272	06/23/2009 13:50	0.4	0.4	0.5
273	06/23/2009 13:51	0.4	0.4	0.5
274	06/23/2009 13:52	0.4	0.4	0.5
275	06/23/2009 13:53	0.4	0.4	0.5
276	06/23/2009 13:54	0.5	0.5	0.5
277	06/23/2009 13:55	0.5	0.5	0.5
278	06/23/2009 13:56	0.4	0.4	0.5
279	06/23/2009 13:57	0.4	0.4	0.5
280	06/23/2009 13:58	0.4	0.4	0.5
281	06/23/2009 13:59	0.5	0.5	0.5
282	06/23/2009 14:00	0.4	0.4	0.5
283	06/23/2009 14:01	0.4	0.4	0.5
284	06/23/2009 14:02	0.4	0.4	0.5
285	06/23/2009 14:03	0.5	0.5	0.5
286	06/23/2009 14:04	0.5	0.5	0.5
287	06/23/2009 14:05	0.5	0.5	0.5
288	06/23/2009 14:06	0.5	0.5	0.5
289	06/23/2009 14:07	0.5	0.5	0.5
290	06/23/2009 14:08	0.5	0.5	0.6
291	06/23/2009 14:09	0.5	0.5	0.5
292	06/23/2009 14:10	0.5	0.5	0.5
293	06/23/2009 14:11	0.5	0.5	0.5
294	06/23/2009 14:12	0.5	0.5	0.5
295	06/23/2009 14:13	0.5	0.5	0.5
296	06/23/2009 14:14	0.5	0.5	0.5
297	06/23/2009 14:15	0.4	0.4	0.5
298	06/23/2009 14:16	0.5	0.5	0.5
299	06/23/2009 14:17	0.5	0.5	0.5
300	06/23/2009 14:18	0.5	0.5	0.5
301	06/23/2009 14:19	0.5	0.5	0.5

302	06/23/2009 14:20	0.5	0.5	0.5
303	06/23/2009 14:21	0.4	0.4	0.5
304	06/23/2009 14:22	0.4	0.4	0.5
305	06/23/2009 14:23	0.4	0.4	0.5
306	06/23/2009 14:24	0.5	0.5	0.5
307	06/23/2009 14:25	0.5	0.5	0.5
308	06/23/2009 14:26	0.4	0.4	0.5
309	06/23/2009 14:27	0.5	0.5	0.5
310	06/23/2009 14:28	0.5	0.5	0.5
311	06/23/2009 14:29	0.5	0.5	0.5
312	06/23/2009 14:30	0.4	0.5	0.8
313	06/23/2009 14:31	0.5	0.5	0.5
314	06/23/2009 14:32	0.5	0.5	0.5
315	06/23/2009 14:33	0.5	0.5	0.5
316	06/23/2009 14:34	0.5	0.5	0.5
317	06/23/2009 14:35	0.5	0.5	0.5
318	06/23/2009 14:36	0.5	0.5	0.5
319	06/23/2009 14:37	0.5	0.5	0.6
320	06/23/2009 14:38	0.5	0.5	0.5
321	06/23/2009 14:39	0.5	0.5	0.5
322	06/23/2009 14:40	0.5	0.5	0.5
323	06/23/2009 14:41	0.5	0.5	0.5
324	06/23/2009 14:42	0.5	0.5	0.5
325	06/23/2009 14:43	0.5	0.5	0.5
326	06/23/2009 14:44	0.5	0.5	0.5
327	06/23/2009 14:45	0.5	0.5	0.5
328	06/23/2009 14:46	0.5	0.5	0.5
329	06/23/2009 14:47	0.5	0.5	0.5
330	06/23/2009 14:48	0.5	0.5	0.5
331	06/23/2009 14:49	0.5	0.5	0.5
332	06/23/2009 14:50	0.5	0.5	0.5
333	06/23/2009 14:51	0.5	0.5	0.5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 314 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 06/23/2009 09:16      0.0         0.0          0.0
2 06/23/2009 09:17      0.0         0.0          0.0
3 06/23/2009 09:18      0.0         0.0          0.0
4 06/23/2009 09:19      0.0         0.0          0.0
5 06/23/2009 09:20      0.0         0.0          0.0
6 06/23/2009 09:21      0.0         0.0          0.0
7 06/23/2009 09:22      0.0         0.0          0.0
8 06/23/2009 09:23      0.0         0.0          0.0
9 06/23/2009 09:24      0.0         0.0          0.0
10 06/23/2009 09:25      0.0         0.0          0.3
11 06/23/2009 09:26      0.0         0.0          0.0
12 06/23/2009 09:27      0.0         0.0          0.0
13 06/23/2009 09:28      0.0         0.0          0.0
14 06/23/2009 09:29      0.0         0.0          0.0
15 06/23/2009 09:30      0.0         0.0          0.0
16 06/23/2009 09:31      0.0         0.0          0.0
17 06/23/2009 09:32      0.0         0.0          0.0
18 06/23/2009 09:33      0.0         0.0          0.0
19 06/23/2009 09:34      0.0         0.0          0.0
20 06/23/2009 09:35      0.0         0.0          0.0
21 06/23/2009 09:36      0.0         0.0          0.0
22 06/23/2009 09:37      0.0         0.0          0.0
23 06/23/2009 09:38      0.0         0.0          0.0
24 06/23/2009 09:39      0.0         0.0          0.0
25 06/23/2009 09:40      0.0         0.0          0.1
26 06/23/2009 09:41      0.0         0.0          0.0
27 06/23/2009 09:42      0.0         0.0          0.0
28 06/23/2009 09:43      0.0         0.0          0.0
29 06/23/2009 09:44      0.0         0.0          0.0
30 06/23/2009 09:45      0.0         0.0          0.1
31 06/23/2009 09:46      0.0         0.0          0.0
32 06/23/2009 09:47      0.0         0.0          0.0
33 06/23/2009 09:48      0.0         0.0          0.0
34 06/23/2009 09:49      0.0         0.0          0.0
35 06/23/2009 09:50      0.0         0.0          0.0
36 06/23/2009 09:51      0.0         0.0          0.0
37 06/23/2009 09:52      0.0         0.0          0.0
38 06/23/2009 09:53      0.0         0.0          0.0
39 06/23/2009 09:54      0.0         0.0          0.0
40 06/23/2009 09:55      0.0         0.0          0.2
41 06/23/2009 09:56      0.0         0.0          0.0
```

42	06/23/2009 09:57	0.0	0.0	0.0
43	06/23/2009 09:58	0.0	0.0	0.0
44	06/23/2009 09:59	0.0	0.0	0.0
45	06/23/2009 10:00	0.0	0.0	0.0
46	06/23/2009 10:01	0.0	0.0	0.0
47	06/23/2009 10:02	0.0	0.0	0.2
48	06/23/2009 10:03	0.0	0.0	0.0
49	06/23/2009 10:04	0.0	0.0	0.0
50	06/23/2009 10:05	0.0	0.0	0.1
51	06/23/2009 10:06	0.0	0.0	0.1
52	06/23/2009 10:07	0.0	0.0	0.1
53	06/23/2009 10:08	0.0	0.0	0.0
54	06/23/2009 10:09	0.0	0.0	0.1
55	06/23/2009 10:10	0.0	0.0	0.1
56	06/23/2009 10:11	0.0	0.0	0.1
57	06/23/2009 10:12	0.0	0.0	0.1
58	06/23/2009 10:13	0.0	0.0	0.1
59	06/23/2009 10:14	0.0	0.0	0.1
60	06/23/2009 10:15	0.0	0.0	0.1
61	06/23/2009 10:16	0.0	0.0	0.1
62	06/23/2009 10:17	0.0	0.0	0.1
63	06/23/2009 10:18	0.0	0.0	0.1
64	06/23/2009 10:19	0.0	0.0	0.1
65	06/23/2009 10:20	0.0	0.0	0.1
66	06/23/2009 10:21	0.0	0.0	0.2
67	06/23/2009 10:22	0.0	0.0	0.1
68	06/23/2009 10:23	0.0	0.0	0.1
69	06/23/2009 10:24	0.0	0.0	0.1
70	06/23/2009 10:25	0.0	0.0	0.1
71	06/23/2009 10:26	0.0	0.0	0.2
72	06/23/2009 10:27	0.0	0.0	0.1
73	06/23/2009 10:28	0.0	0.1	0.3
74	06/23/2009 10:29	0.0	0.0	0.2
75	06/23/2009 10:30	0.0	0.0	0.2
76	06/23/2009 10:31	0.0	0.0	0.2
77	06/23/2009 10:32	0.0	0.1	0.3
78	06/23/2009 10:33	0.0	0.1	0.2
79	06/23/2009 10:34	0.0	0.1	0.2
80	06/23/2009 10:35	0.0	0.1	0.2
81	06/23/2009 10:36	0.0	0.1	0.2
82	06/23/2009 10:37	0.0	0.1	0.2
83	06/23/2009 10:38	0.1	0.1	0.2
84	06/23/2009 10:39	0.0	0.1	0.2
85	06/23/2009 10:40	0.1	0.1	0.2
86	06/23/2009 10:41	0.0	0.1	0.2
87	06/23/2009 10:42	0.1	0.1	0.2
88	06/23/2009 10:43	0.1	0.1	0.2
89	06/23/2009 10:44	0.1	0.1	0.2
90	06/23/2009 10:45	0.1	0.1	0.2
91	06/23/2009 10:46	0.1	0.1	0.2
92	06/23/2009 10:47	0.1	0.1	0.2
93	06/23/2009 10:48	0.1	0.1	0.2



94	06/23/2009 10:49	0.1	0.1	0.2
95	06/23/2009 10:50	0.1	0.1	0.2
96	06/23/2009 10:51	0.1	0.1	0.3
97	06/23/2009 10:52	0.1	0.1	0.2
98	06/23/2009 10:53	0.1	0.1	0.3
99	06/23/2009 10:54	0.1	0.1	0.3
100	06/23/2009 10:55	0.1	0.1	0.2
101	06/23/2009 10:56	0.1	0.1	0.2
102	06/23/2009 10:57	0.1	0.1	0.2
103	06/23/2009 10:58	0.1	0.1	0.2
104	06/23/2009 10:59	0.1	0.1	0.2
105	06/23/2009 11:00	0.1	0.1	0.2
106	06/23/2009 11:01	0.1	0.1	0.2
107	06/23/2009 11:02	0.1	0.1	0.2
108	06/23/2009 11:03	0.1	0.1	0.2
109	06/23/2009 11:04	0.1	0.1	0.2
110	06/23/2009 11:05	0.1	0.1	0.2
111	06/23/2009 11:06	0.1	0.2	0.3
112	06/23/2009 11:07	0.1	0.1	0.2
113	06/23/2009 11:08	0.1	0.1	0.3
114	06/23/2009 11:09	0.1	0.1	0.3
115	06/23/2009 11:10	0.1	0.1	0.3
116	06/23/2009 11:11	0.1	0.1	0.3
117	06/23/2009 11:12	0.1	0.2	0.3
118	06/23/2009 11:13	0.1	0.1	0.3
119	06/23/2009 11:14	0.1	0.1	0.3
120	06/23/2009 11:15	0.1	0.1	0.2
121	06/23/2009 11:16	0.1	0.1	0.3
122	06/23/2009 11:17	0.1	0.1	0.3
123	06/23/2009 11:18	0.1	0.2	0.3
124	06/23/2009 11:19	0.1	0.1	0.2
125	06/23/2009 11:20	0.2	0.2	0.3
126	06/23/2009 11:21	0.1	0.2	0.3
127	06/23/2009 11:22	0.1	0.2	0.3
128	06/23/2009 11:23	0.1	0.2	0.3
129	06/23/2009 11:24	0.2	0.2	0.3
130	06/23/2009 11:25	0.1	0.2	0.3
131	06/23/2009 11:26	0.1	0.2	0.3
132	06/23/2009 11:27	0.1	0.2	0.3
133	06/23/2009 11:28	0.1	0.2	0.3
134	06/23/2009 11:29	0.2	0.2	0.3
135	06/23/2009 11:30	0.2	0.2	0.3
136	06/23/2009 11:31	0.1	0.2	0.3
137	06/23/2009 11:32	0.2	0.2	0.3
138	06/23/2009 11:33	0.1	0.2	0.3
139	06/23/2009 11:34	0.1	0.2	0.3
140	06/23/2009 11:35	0.1	0.2	0.3
141	06/23/2009 11:36	0.2	0.2	0.3
142	06/23/2009 11:37	0.1	0.2	0.3
143	06/23/2009 11:38	0.1	0.2	0.3
144	06/23/2009 11:39	0.1	0.2	0.3
145	06/23/2009 11:40	0.1	0.1	0.3

146	06/23/2009 11:41	0.1	0.2	0.3
147	06/23/2009 11:42	0.2	0.2	0.3
148	06/23/2009 11:43	0.1	0.2	0.3
149	06/23/2009 11:44	0.2	0.2	0.3
150	06/23/2009 11:45	0.2	0.2	0.3
151	06/23/2009 11:46	0.2	0.2	0.3
152	06/23/2009 11:47	0.2	0.2	0.3
153	06/23/2009 11:48	0.1	0.2	0.3
154	06/23/2009 11:49	0.2	0.2	0.3
155	06/23/2009 11:50	0.1	0.2	0.3
156	06/23/2009 11:51	0.1	0.2	0.3
157	06/23/2009 11:52	0.1	0.2	0.3
158	06/23/2009 11:53	0.2	0.2	0.3
159	06/23/2009 11:54	0.2	0.2	0.4
160	06/23/2009 11:55	0.2	0.3	0.5
161	06/23/2009 11:56	0.2	0.2	0.3
162	06/23/2009 11:57	0.2	0.2	0.3
163	06/23/2009 11:58	0.1	0.2	0.3
164	06/23/2009 11:59	0.2	0.2	0.3
165	06/23/2009 12:00	0.2	0.2	0.4
166	06/23/2009 12:01	0.2	0.3	0.4
167	06/23/2009 12:02	0.3	0.7	1.4
168	06/23/2009 12:03	0.2	0.2	0.4
169	06/23/2009 12:04	0.2	0.2	0.5
170	06/23/2009 12:05	0.2	0.3	0.5
171	06/23/2009 12:06	0.3	0.5	0.9
172	06/23/2009 12:07	0.2	0.3	0.5
173	06/23/2009 12:08	0.2	0.3	0.5
174	06/23/2009 12:09	0.2	0.5	2.1
175	06/23/2009 12:10	0.2	0.3	0.6
176	06/23/2009 12:11	0.2	0.3	0.8
177	06/23/2009 12:12	0.2	0.2	0.4
178	06/23/2009 12:13	0.2	0.2	0.3
179	06/23/2009 12:14	0.2	0.2	0.3
180	06/23/2009 12:15	0.1	0.2	0.3
181	06/23/2009 12:16	0.1	0.1	0.3
182	06/23/2009 12:17	0.1	0.2	0.3
183	06/23/2009 12:18	0.1	0.2	0.3
184	06/23/2009 12:19	0.1	0.2	0.3
185	06/23/2009 12:20	0.1	0.2	0.3
186	06/23/2009 12:21	0.1	0.1	0.3
187	06/23/2009 12:22	0.1	0.2	0.3
188	06/23/2009 12:23	0.2	0.2	0.3
189	06/23/2009 12:24	0.2	0.2	0.3
190	06/23/2009 12:25	0.1	0.1	0.3
191	06/23/2009 12:26	0.1	0.2	0.3
192	06/23/2009 12:27	0.2	0.2	0.3
193	06/23/2009 12:28	0.2	0.2	0.3
194	06/23/2009 12:29	0.1	0.1	0.3
195	06/23/2009 12:30	0.1	0.2	0.3
196	06/23/2009 12:31	0.1	0.2	0.3
197	06/23/2009 12:32	0.1	0.2	0.3

198	06/23/2009 12:33	0.1	0.2	0.3
199	06/23/2009 12:34	0.1	0.2	0.3
200	06/23/2009 12:35	0.1	0.2	0.3
201	06/23/2009 12:36	0.1	0.2	0.3
202	06/23/2009 12:37	0.1	0.2	0.3
203	06/23/2009 12:38	0.1	0.2	0.3
204	06/23/2009 12:39	0.1	0.2	0.3
205	06/23/2009 12:40	0.1	0.2	0.3
206	06/23/2009 12:41	0.2	0.2	0.3
207	06/23/2009 12:42	0.1	0.2	0.3
208	06/23/2009 12:43	0.1	0.2	0.3
209	06/23/2009 12:44	0.1	0.2	0.3
210	06/23/2009 12:45	0.1	0.2	0.3
211	06/23/2009 12:46	0.1	0.2	0.3
212	06/23/2009 12:47	0.1	0.1	0.2
213	06/23/2009 12:48	0.1	0.1	0.3
214	06/23/2009 12:49	0.1	0.1	0.3
215	06/23/2009 12:50	0.1	0.2	0.3
216	06/23/2009 12:51	0.1	0.1	0.3
217	06/23/2009 12:52	0.1	0.1	0.3
218	06/23/2009 12:53	0.1	0.1	0.3
219	06/23/2009 12:54	0.1	0.1	0.3
220	06/23/2009 12:55	0.1	0.1	0.3
221	06/23/2009 12:56	0.1	0.1	0.3
222	06/23/2009 12:57	0.1	0.1	0.3
223	06/23/2009 12:58	0.1	0.1	0.3
224	06/23/2009 12:59	0.1	0.2	0.3
225	06/23/2009 13:00	0.1	0.1	0.3
226	06/23/2009 13:01	0.1	0.2	0.3
227	06/23/2009 13:02	0.1	0.1	0.3
228	06/23/2009 13:03	0.1	0.2	0.3
229	06/23/2009 13:04	0.1	0.1	0.3
230	06/23/2009 13:05	0.1	0.1	0.3
231	06/23/2009 13:06	0.1	0.2	0.3
232	06/23/2009 13:07	0.1	0.1	0.3
233	06/23/2009 13:08	0.1	0.1	0.3
234	06/23/2009 13:09	0.1	0.1	0.3
235	06/23/2009 13:10	0.1	0.1	0.3
236	06/23/2009 13:11	0.1	0.1	0.3
237	06/23/2009 13:12	0.1	0.1	0.3
238	06/23/2009 13:13	0.1	0.1	0.3
239	06/23/2009 13:14	0.1	0.1	0.3
240	06/23/2009 13:15	0.1	0.1	0.3
241	06/23/2009 13:16	0.1	0.1	0.3
242	06/23/2009 13:17	0.1	0.1	0.3
243	06/23/2009 13:18	0.1	0.1	0.3
244	06/23/2009 13:19	0.1	0.1	0.3
245	06/23/2009 13:20	0.1	0.1	0.3
246	06/23/2009 13:21	0.1	0.1	0.3
247	06/23/2009 13:22	0.1	0.1	0.3
248	06/23/2009 13:23	0.1	0.1	0.3
249	06/23/2009 13:24	0.1	0.1	0.3

250	06/23/2009 13:25	0.1	0.1	0.3
251	06/23/2009 13:26	0.1	0.1	0.3
252	06/23/2009 13:27	0.1	0.1	0.3
253	06/23/2009 13:28	0.1	0.1	0.3
254	06/23/2009 13:29	0.1	0.2	0.3
255	06/23/2009 13:30	0.1	0.1	0.3
256	06/23/2009 13:31	0.1	0.1	0.3
257	06/23/2009 13:32	0.1	0.1	0.3
258	06/23/2009 13:33	0.1	0.1	0.2
259	06/23/2009 13:34	0.1	0.1	0.3
260	06/23/2009 13:35	0.1	0.1	0.3
261	06/23/2009 13:36	0.1	0.1	0.3
262	06/23/2009 13:37	0.1	0.2	0.3
263	06/23/2009 13:38	0.1	0.1	0.3
264	06/23/2009 13:39	0.1	0.1	0.3
265	06/23/2009 13:40	0.1	0.1	0.2
266	06/23/2009 13:41	0.1	0.1	0.3
267	06/23/2009 13:42	0.1	0.1	0.3
268	06/23/2009 13:43	0.1	0.1	0.3
269	06/23/2009 13:44	0.1	0.1	0.3
270	06/23/2009 13:45	0.1	0.1	0.3
271	06/23/2009 13:46	0.1	0.2	0.3
272	06/23/2009 13:47	0.1	0.1	0.2
273	06/23/2009 13:48	0.1	0.1	0.2
274	06/23/2009 13:49	0.1	0.1	0.3
275	06/23/2009 13:50	0.1	0.1	0.2
276	06/23/2009 13:51	0.1	0.1	0.3
277	06/23/2009 13:52	0.1	0.1	0.3
278	06/23/2009 13:53	0.1	0.1	0.2
279	06/23/2009 13:54	0.1	0.1	0.2
280	06/23/2009 13:55	0.1	0.1	0.3
281	06/23/2009 13:56	0.1	0.1	0.3
282	06/23/2009 13:57	0.1	0.1	0.3
283	06/23/2009 13:58	0.1	0.1	0.3
284	06/23/2009 13:59	0.1	0.1	0.2
285	06/23/2009 14:00	0.1	0.1	0.3
286	06/23/2009 14:01	0.1	0.1	0.2
287	06/23/2009 14:02	0.1	0.1	0.3
288	06/23/2009 14:03	0.1	0.1	0.3
289	06/23/2009 14:04	0.1	0.1	0.2
290	06/23/2009 14:05	0.1	0.1	0.3
291	06/23/2009 14:06	0.1	0.1	0.3
292	06/23/2009 14:07	0.1	0.1	0.3
293	06/23/2009 14:08	0.1	0.1	0.2
294	06/23/2009 14:09	0.1	0.1	0.3
295	06/23/2009 14:10	0.1	0.1	0.2
296	06/23/2009 14:11	0.1	0.1	0.2
297	06/23/2009 14:12	0.1	0.1	0.3
298	06/23/2009 14:13	0.1	0.1	0.3
299	06/23/2009 14:14	0.1	0.1	0.3
300	06/23/2009 14:15	0.1	0.1	0.3
301	06/23/2009 14:16	0.1	0.1	0.3

302	06/23/2009 14:17	0.1	0.1	0.3
303	06/23/2009 14:18	0.1	0.1	0.3
304	06/23/2009 14:19	0.1	0.1	0.3
305	06/23/2009 14:20	0.1	0.1	0.2
306	06/23/2009 14:21	0.1	0.1	0.2
307	06/23/2009 14:22	0.1	0.1	0.3
308	06/23/2009 14:23	0.1	0.1	0.3
309	06/23/2009 14:24	0.1	0.1	0.3
310	06/23/2009 14:25	0.1	0.1	0.3
311	06/23/2009 14:26	0.1	0.2	0.3
312	06/23/2009 14:27	0.1	0.1	0.3
313	06/23/2009 14:28	0.1	0.1	0.3
314	06/23/2009 14:29	0.1	0.1	0.2

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 314 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 06/23/2009 09:04      0.0        0.0        0.0
2 06/23/2009 09:05      0.0        0.0        0.0
3 06/23/2009 09:06      0.0        0.0        0.0
4 06/23/2009 09:07      0.0        0.0        0.0
5 06/23/2009 09:08      0.0        0.0        0.0
6 06/23/2009 09:09      0.0        0.0        0.0
7 06/23/2009 09:10      0.0        0.0        0.0
8 06/23/2009 09:11      0.0        0.0        0.0
9 06/23/2009 09:12      0.0        0.0        0.0
10 06/23/2009 09:13      0.0        0.0        0.0
11 06/23/2009 09:14      0.0        0.0        0.0
12 06/23/2009 09:15      0.0        0.0        0.0
13 06/23/2009 09:16      0.0        0.0        0.0
14 06/23/2009 09:17      0.0        0.0        0.0
15 06/23/2009 09:18      0.0        0.0        0.0
16 06/23/2009 09:19      0.0        0.0        0.0
17 06/23/2009 09:20      0.0        0.0        0.0
18 06/23/2009 09:21      0.0        0.0        0.0
19 06/23/2009 09:22      0.0        0.0        0.0
20 06/23/2009 09:23      0.0        0.0        0.0
21 06/23/2009 09:24      0.0        0.0        0.0
22 06/23/2009 09:25      0.0        0.0        0.0
23 06/23/2009 09:26      0.0        0.0        0.0
24 06/23/2009 09:27      0.0        0.0        0.0
25 06/23/2009 09:28      0.0        0.0        0.0
26 06/23/2009 09:29      0.0        0.0        0.0
27 06/23/2009 09:30      0.0        0.0        0.0
28 06/23/2009 09:31      0.0        0.0        0.0
29 06/23/2009 09:32      0.0        0.0        0.0
30 06/23/2009 09:33      0.0        0.0        0.0
31 06/23/2009 09:34      0.0        0.0        0.0
32 06/23/2009 09:35      0.0        0.0        0.0
33 06/23/2009 09:36      0.0        0.0        0.0
34 06/23/2009 09:37      0.0        0.0        0.0
35 06/23/2009 09:38      0.0        0.0        0.0
36 06/23/2009 09:39      0.0        0.0        0.0
37 06/23/2009 09:40      0.0        0.0        0.0
38 06/23/2009 09:41      0.0        0.0        0.0
39 06/23/2009 09:42      0.0        0.0        0.0
40 06/23/2009 09:43      0.0        0.0        0.0
41 06/23/2009 09:44      0.0        0.0        0.0
```

42	06/23/2009 09:45	0.0	0.0	0.0
43	06/23/2009 09:46	0.0	0.0	0.0
44	06/23/2009 09:47	0.0	0.0	0.0
45	06/23/2009 09:48	0.0	0.0	0.0
46	06/23/2009 09:49	0.0	0.0	0.0
47	06/23/2009 09:50	0.0	0.0	0.0
48	06/23/2009 09:51	0.0	0.0	0.0
49	06/23/2009 09:52	0.0	0.0	0.0
50	06/23/2009 09:53	0.0	0.0	0.0
51	06/23/2009 09:54	0.0	0.0	0.0
52	06/23/2009 09:55	0.0	0.0	0.0
53	06/23/2009 09:56	0.0	0.0	0.0
54	06/23/2009 09:57	0.0	0.0	0.0
55	06/23/2009 09:58	0.0	0.0	0.0
56	06/23/2009 09:59	0.0	0.0	0.0
57	06/23/2009 10:00	0.0	0.0	0.0
58	06/23/2009 10:01	0.0	0.0	0.0
59	06/23/2009 10:02	0.0	0.0	0.0
60	06/23/2009 10:03	0.0	0.0	0.0
61	06/23/2009 10:04	0.0	0.0	0.0
62	06/23/2009 10:05	0.0	0.0	0.0
63	06/23/2009 10:06	0.0	0.0	0.0
64	06/23/2009 10:07	0.0	0.0	0.0
65	06/23/2009 10:08	0.0	0.0	0.0
66	06/23/2009 10:09	0.0	0.0	0.0
67	06/23/2009 10:10	0.0	0.0	0.0
68	06/23/2009 10:11	0.0	0.0	0.0
69	06/23/2009 10:12	0.0	0.0	0.0
70	06/23/2009 10:13	0.0	0.0	0.0
71	06/23/2009 10:14	0.0	0.0	0.0
72	06/23/2009 10:15	0.0	0.0	0.0
73	06/23/2009 10:16	0.0	0.0	0.0
74	06/23/2009 10:17	0.0	0.0	0.0
75	06/23/2009 10:18	0.0	0.0	0.0
76	06/23/2009 10:19	0.0	0.0	0.0
77	06/23/2009 10:20	0.0	0.0	0.0
78	06/23/2009 10:21	0.0	0.0	0.0
79	06/23/2009 10:22	0.0	0.0	0.0
80	06/23/2009 10:23	0.0	0.0	0.0
81	06/23/2009 10:24	0.0	0.0	0.0
82	06/23/2009 10:25	0.0	0.0	0.0
83	06/23/2009 10:26	0.0	0.0	0.0
84	06/23/2009 10:27	0.0	0.0	0.0
85	06/23/2009 10:28	0.0	0.0	0.0
86	06/23/2009 10:29	0.0	0.0	0.0
87	06/23/2009 10:30	0.0	0.0	0.0
88	06/23/2009 10:31	0.0	0.0	0.0
89	06/23/2009 10:32	0.0	0.0	0.0
90	06/23/2009 10:33	0.0	0.0	0.0
91	06/23/2009 10:34	0.0	0.0	0.0
92	06/23/2009 10:35	0.0	0.0	0.0
93	06/23/2009 10:36	0.0	0.0	0.0

94	06/23/2009 10:37	0.0	0.0	0.0
95	06/23/2009 10:38	0.0	0.0	0.0
96	06/23/2009 10:39	0.0	0.0	0.0
97	06/23/2009 10:40	0.0	0.0	0.0
98	06/23/2009 10:41	0.0	0.0	0.0
99	06/23/2009 10:42	0.0	0.0	0.0
100	06/23/2009 10:43	0.0	0.0	0.0
101	06/23/2009 10:44	0.0	0.0	0.0
102	06/23/2009 10:45	0.0	0.0	0.0
103	06/23/2009 10:46	0.0	0.0	0.0
104	06/23/2009 10:47	0.0	0.0	0.0
105	06/23/2009 10:48	0.0	0.0	0.0
106	06/23/2009 10:49	0.0	0.0	0.0
107	06/23/2009 10:50	0.0	0.0	0.0
108	06/23/2009 10:51	0.0	0.0	0.0
109	06/23/2009 10:52	0.0	0.0	0.0
110	06/23/2009 10:53	0.0	0.0	0.0
111	06/23/2009 10:54	0.0	0.0	0.0
112	06/23/2009 10:55	0.0	0.0	0.0
113	06/23/2009 10:56	0.0	0.0	0.0
114	06/23/2009 10:57	0.0	0.0	0.0
115	06/23/2009 10:58	0.0	0.0	0.0
116	06/23/2009 10:59	0.0	0.0	0.0
117	06/23/2009 11:00	0.0	0.0	0.0
118	06/23/2009 11:01	0.0	0.0	0.0
119	06/23/2009 11:02	0.0	0.0	0.0
120	06/23/2009 11:03	0.0	0.0	0.0
121	06/23/2009 11:04	0.0	0.0	0.0
122	06/23/2009 11:05	0.0	0.0	0.0
123	06/23/2009 11:06	0.0	0.0	0.0
124	06/23/2009 11:07	0.0	0.0	0.0
125	06/23/2009 11:08	0.0	0.0	0.0
126	06/23/2009 11:09	0.0	0.0	0.0
127	06/23/2009 11:10	0.0	0.0	0.0
128	06/23/2009 11:11	0.0	0.0	0.0
129	06/23/2009 11:12	0.0	0.0	0.0
130	06/23/2009 11:13	0.0	0.0	0.0
131	06/23/2009 11:14	0.0	0.0	0.0
132	06/23/2009 11:15	0.0	0.0	0.0
133	06/23/2009 11:16	0.0	0.0	0.0
134	06/23/2009 11:17	0.0	0.0	0.0
135	06/23/2009 11:18	0.0	0.0	0.0
136	06/23/2009 11:19	0.0	0.0	0.0
137	06/23/2009 11:20	0.0	0.0	0.0
138	06/23/2009 11:21	0.0	0.0	0.0
139	06/23/2009 11:22	0.0	0.0	0.0
140	06/23/2009 11:23	0.0	0.0	0.0
141	06/23/2009 11:24	0.0	0.0	0.0
142	06/23/2009 11:25	0.0	0.0	0.0
143	06/23/2009 11:26	0.0	0.0	0.0
144	06/23/2009 11:27	0.0	0.0	0.0
145	06/23/2009 11:28	0.0	0.0	0.0



146	06/23/2009 11:29	0.0	0.0	0.0
147	06/23/2009 11:30	0.0	0.0	0.0
148	06/23/2009 11:31	0.0	0.0	0.0
149	06/23/2009 11:32	0.0	0.0	0.0
150	06/23/2009 11:33	0.0	0.0	0.0
151	06/23/2009 11:34	0.0	0.0	0.0
152	06/23/2009 11:35	0.0	0.0	0.0
153	06/23/2009 11:36	0.0	0.0	0.0
154	06/23/2009 11:37	0.0	0.0	0.0
155	06/23/2009 11:38	0.0	0.0	0.0
156	06/23/2009 11:39	0.0	0.0	0.0
157	06/23/2009 11:40	0.0	0.0	0.0
158	06/23/2009 11:41	0.0	0.0	0.0
159	06/23/2009 11:42	0.0	0.0	0.0
160	06/23/2009 11:43	0.0	0.0	0.0
161	06/23/2009 11:44	0.0	0.0	0.0
162	06/23/2009 11:45	0.0	0.0	0.0
163	06/23/2009 11:46	0.0	0.0	0.0
164	06/23/2009 11:47	0.0	0.0	0.0
165	06/23/2009 11:48	0.0	0.0	0.0
166	06/23/2009 11:49	0.0	0.0	0.0
167	06/23/2009 11:50	0.0	0.0	0.0
168	06/23/2009 11:51	0.0	0.0	0.0
169	06/23/2009 11:52	0.0	0.0	0.0
170	06/23/2009 11:53	0.0	0.0	0.0
171	06/23/2009 11:54	0.0	0.0	0.0
172	06/23/2009 11:55	0.0	0.0	0.0
173	06/23/2009 11:56	0.0	0.0	0.0
174	06/23/2009 11:57	0.0	0.0	0.0
175	06/23/2009 11:58	0.0	0.0	0.0
176	06/23/2009 11:59	0.0	0.0	0.0
177	06/23/2009 12:00	0.0	0.0	0.0
178	06/23/2009 12:01	0.0	0.0	0.0
179	06/23/2009 12:02	0.0	0.0	0.0
180	06/23/2009 12:03	0.0	0.0	0.0
181	06/23/2009 12:04	0.0	0.0	0.0
182	06/23/2009 12:05	0.0	0.0	0.0
183	06/23/2009 12:06	0.0	0.0	0.0
184	06/23/2009 12:07	0.0	0.0	0.0
185	06/23/2009 12:08	0.0	0.0	0.0
186	06/23/2009 12:09	0.0	0.0	0.0
187	06/23/2009 12:10	0.0	0.0	0.0
188	06/23/2009 12:11	0.0	0.0	0.0
189	06/23/2009 12:12	0.0	0.0	0.0
190	06/23/2009 12:13	0.0	0.0	0.0
191	06/23/2009 12:14	0.0	0.0	0.0
192	06/23/2009 12:15	0.0	0.0	0.0
193	06/23/2009 12:16	0.0	0.0	0.0
194	06/23/2009 12:17	0.0	0.0	0.0
195	06/23/2009 12:18	0.0	0.0	0.0
196	06/23/2009 12:19	0.0	0.0	0.0
197	06/23/2009 12:20	0.0	0.0	0.0

198	06/23/2009 12:21	0.0	0.0	0.0
199	06/23/2009 12:22	0.0	0.0	0.0
200	06/23/2009 12:23	0.0	0.0	0.0
201	06/23/2009 12:24	0.0	0.0	0.0
202	06/23/2009 12:25	0.0	0.0	0.0
203	06/23/2009 12:26	0.0	0.0	0.0
204	06/23/2009 12:27	0.0	0.0	0.0
205	06/23/2009 12:28	0.0	0.0	0.0
206	06/23/2009 12:29	0.0	0.0	0.0
207	06/23/2009 12:30	0.0	0.0	0.0
208	06/23/2009 12:31	0.0	0.0	0.0
209	06/23/2009 12:32	0.0	0.0	0.0
210	06/23/2009 12:33	0.0	0.0	0.0
211	06/23/2009 12:34	0.0	0.0	0.0
212	06/23/2009 12:35	0.0	0.0	0.0
213	06/23/2009 12:36	0.0	0.0	0.0
214	06/23/2009 12:37	0.0	0.0	0.0
215	06/23/2009 12:38	0.0	0.0	0.0
216	06/23/2009 12:39	0.0	0.0	0.0
217	06/23/2009 12:40	0.0	0.0	0.0
218	06/23/2009 12:41	0.0	0.0	0.0
219	06/23/2009 12:42	0.0	0.0	0.0
220	06/23/2009 12:43	0.0	0.0	0.0
221	06/23/2009 12:44	0.0	0.0	0.0
222	06/23/2009 12:45	0.0	0.0	0.0
223	06/23/2009 12:46	0.0	0.0	0.0
224	06/23/2009 12:47	0.0	0.0	0.0
225	06/23/2009 12:48	0.0	0.0	0.0
226	06/23/2009 12:49	0.0	0.0	0.0
227	06/23/2009 12:50	0.0	0.0	0.0
228	06/23/2009 12:51	0.0	0.0	0.0
229	06/23/2009 12:52	0.0	0.0	0.0
230	06/23/2009 12:53	0.0	0.0	0.0
231	06/23/2009 12:54	0.0	0.0	0.0
232	06/23/2009 12:55	0.0	0.0	0.0
233	06/23/2009 12:56	0.0	0.0	0.0
234	06/23/2009 12:57	0.0	0.0	0.0
235	06/23/2009 12:58	0.0	0.0	0.0
236	06/23/2009 12:59	0.0	0.0	0.0
237	06/23/2009 13:00	0.0	0.0	0.0
238	06/23/2009 13:01	0.0	0.0	0.0
239	06/23/2009 13:02	0.0	0.0	0.0
240	06/23/2009 13:03	0.0	0.0	0.0
241	06/23/2009 13:04	0.0	0.0	0.0
242	06/23/2009 13:05	0.0	0.0	0.0
243	06/23/2009 13:06	0.0	0.0	0.0
244	06/23/2009 13:07	0.0	0.0	0.0
245	06/23/2009 13:08	0.0	0.0	0.0
246	06/23/2009 13:09	0.0	0.0	0.0
247	06/23/2009 13:10	0.0	0.0	0.0
248	06/23/2009 13:11	0.0	0.0	0.0
249	06/23/2009 13:12	0.0	0.0	0.0

250	06/23/2009 13:13	0.0	0.0	0.0
251	06/23/2009 13:14	0.0	0.0	0.0
252	06/23/2009 13:15	0.0	0.0	0.0
253	06/23/2009 13:16	0.0	0.0	0.0
254	06/23/2009 13:17	0.0	0.0	0.0
255	06/23/2009 13:18	0.0	0.0	0.0
256	06/23/2009 13:19	0.0	0.0	0.0
257	06/23/2009 13:20	0.0	0.0	0.0
258	06/23/2009 13:21	0.0	0.0	0.0
259	06/23/2009 13:22	0.0	0.0	0.0
260	06/23/2009 13:23	0.0	0.0	0.0
261	06/23/2009 13:24	0.0	0.0	0.0
262	06/23/2009 13:25	0.0	0.0	0.0
263	06/23/2009 13:26	0.0	0.0	0.0
264	06/23/2009 13:27	0.0	0.0	0.0
265	06/23/2009 13:28	0.0	0.0	0.0
266	06/23/2009 13:29	0.0	0.0	0.0
267	06/23/2009 13:30	0.0	0.0	0.0
268	06/23/2009 13:31	0.0	0.0	0.0
269	06/23/2009 13:32	0.0	0.0	0.0
270	06/23/2009 13:33	0.0	0.0	0.0
271	06/23/2009 13:34	0.0	0.0	0.0
272	06/23/2009 13:35	0.0	0.0	0.0
273	06/23/2009 13:36	0.0	0.0	0.0
274	06/23/2009 13:37	0.0	0.0	0.0
275	06/23/2009 13:38	0.0	0.0	0.0
276	06/23/2009 13:39	0.0	0.0	0.0
277	06/23/2009 13:40	0.0	0.0	0.0
278	06/23/2009 13:41	0.0	0.0	0.0
279	06/23/2009 13:42	0.0	0.0	0.0
280	06/23/2009 13:43	0.0	0.0	0.0
281	06/23/2009 13:44	0.0	0.0	0.0
282	06/23/2009 13:45	0.0	0.0	0.0
283	06/23/2009 13:46	0.0	0.0	0.0
284	06/23/2009 13:47	0.0	0.0	0.0
285	06/23/2009 13:48	0.0	0.0	0.0
286	06/23/2009 13:49	0.0	0.0	0.0
287	06/23/2009 13:50	0.0	0.0	0.0
288	06/23/2009 13:51	0.0	0.0	0.0
289	06/23/2009 13:52	0.0	0.0	0.0
290	06/23/2009 13:53	0.0	0.0	0.0
291	06/23/2009 13:54	0.0	0.0	0.0
292	06/23/2009 13:55	0.0	0.0	0.0
293	06/23/2009 13:56	0.0	0.0	0.0
294	06/23/2009 13:57	0.0	0.0	0.0
295	06/23/2009 13:58	0.0	0.0	0.0
296	06/23/2009 13:59	0.0	0.0	0.0
297	06/23/2009 14:00	0.0	0.0	0.0
298	06/23/2009 14:01	0.0	0.0	0.0
299	06/23/2009 14:02	0.0	0.0	0.0
300	06/23/2009 14:03	0.0	0.0	0.0
301	06/23/2009 14:04	0.0	0.0	0.0

302	06/23/2009 14:05	0.0	0.0	0.0
303	06/23/2009 14:06	0.0	0.0	0.0
304	06/23/2009 14:07	0.0	0.0	0.0
305	06/23/2009 14:08	0.0	0.0	0.0
306	06/23/2009 14:09	0.0	0.0	0.0
307	06/23/2009 14:10	0.0	0.0	0.0
308	06/23/2009 14:11	0.0	0.0	0.0
309	06/23/2009 14:12	0.0	0.0	0.0
310	06/23/2009 14:13	0.0	0.0	0.0
311	06/23/2009 14:14	0.0	0.0	0.0
312	06/23/2009 14:15	0.0	0.0	0.0
313	06/23/2009 14:16	0.0	0.0	0.0
314	06/23/2009 14:17	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002783  
User ID: 00000001 Site ID: Station1  
Data Points: 401 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/02/2009 21:29

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0         25.0
Low Alarm Levels:      5.0         5.0          5.0
=====
```

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

```
1 07/08/2009 07:52      0.0         0.0          0.0
2 07/08/2009 07:53      0.0         0.0          0.0
3 07/08/2009 07:54      0.0         0.0          0.0
4 07/08/2009 07:55      0.0         0.0          0.0
5 07/08/2009 07:56      0.0         0.0          0.0
6 07/08/2009 07:57      0.0         0.0          0.0
7 07/08/2009 07:58      0.0         0.0          0.0
8 07/08/2009 07:59      0.0         0.0          0.0
9 07/08/2009 08:00      0.0         0.0          0.0
10 07/08/2009 08:01      0.0         0.0          0.0
11 07/08/2009 08:02      0.0         0.0          0.0
12 07/08/2009 08:03      0.0         0.0          0.0
13 07/08/2009 08:04      0.0         0.0          0.0
14 07/08/2009 08:05      0.0         0.0          0.0
15 07/08/2009 08:06      0.0         0.0          0.0
16 07/08/2009 08:07      0.0         0.0          0.0
17 07/08/2009 08:08      0.0         0.0          0.0
18 07/08/2009 08:09      0.0         0.0          0.0
19 07/08/2009 08:10      0.0         0.0          0.0
20 07/08/2009 08:11      0.0         0.0          0.0
21 07/08/2009 08:12      0.0         0.0          0.0
22 07/08/2009 08:13      0.0         0.0          0.1
23 07/08/2009 08:14      0.0         0.0          0.1
24 07/08/2009 08:15      0.0         0.0          0.1
25 07/08/2009 08:16      0.0         0.0          0.1
26 07/08/2009 08:17      0.1         0.1          0.1
27 07/08/2009 08:18      0.1         0.1          0.1
28 07/08/2009 08:19      0.1         0.1          0.2
29 07/08/2009 08:20      0.2         0.2          0.2
30 07/08/2009 08:21      0.2         0.2          0.3
31 07/08/2009 08:22      0.2         0.2          0.3
32 07/08/2009 08:23      0.3         0.3          0.3
33 07/08/2009 08:24      0.2         0.2          0.3
34 07/08/2009 08:25      0.2         0.2          0.3
35 07/08/2009 08:26      0.3         0.3          0.3
36 07/08/2009 08:27      0.3         0.3          0.4
37 07/08/2009 08:28      0.3         0.3          0.4
38 07/08/2009 08:29      0.3         0.3          0.3
39 07/08/2009 08:30      0.3         0.3          0.4
40 07/08/2009 08:31      0.3         0.3          0.3
41 07/08/2009 08:32      0.2         0.2          0.3
```

42	07/08/2009 08:33	0.1	0.2	0.3
43	07/08/2009 08:34	0.1	0.2	0.4
44	07/08/2009 08:35	0.4	0.4	0.4
45	07/08/2009 08:36	0.4	0.4	0.5
46	07/08/2009 08:37	0.4	0.4	0.5
47	07/08/2009 08:38	0.3	0.4	0.5
48	07/08/2009 08:39	0.3	0.3	0.4
49	07/08/2009 08:40	0.3	0.4	0.5
50	07/08/2009 08:41	0.4	0.4	0.5
51	07/08/2009 08:42	0.4	0.5	0.6
52	07/08/2009 08:43	0.4	0.4	0.5
53	07/08/2009 08:44	0.4	0.4	0.5
54	07/08/2009 08:45	0.4	0.4	0.5
55	07/08/2009 08:46	0.4	0.4	0.5
56	07/08/2009 08:47	0.4	0.4	0.5
57	07/08/2009 08:48	0.4	0.4	0.5
58	07/08/2009 08:49	0.5	0.5	0.6
59	07/08/2009 08:50	0.4	0.4	0.5
60	07/08/2009 08:51	0.4	0.4	0.5
61	07/08/2009 08:52	0.4	0.4	0.5
62	07/08/2009 08:53	0.4	0.4	0.5
63	07/08/2009 08:54	0.4	0.4	0.5
64	07/08/2009 08:55	0.4	0.4	0.5
65	07/08/2009 08:56	0.4	0.4	0.5
66	07/08/2009 08:57	0.4	0.4	0.5
67	07/08/2009 08:58	0.4	0.4	0.5
68	07/08/2009 08:59	0.4	0.4	0.7
69	07/08/2009 09:00	0.4	0.4	0.5
70	07/08/2009 09:01	0.4	0.4	0.4
71	07/08/2009 09:02	0.4	0.4	0.4
72	07/08/2009 09:03	0.4	0.4	0.5
73	07/08/2009 09:04	0.4	0.4	0.4
74	07/08/2009 09:05	0.4	0.4	0.4
75	07/08/2009 09:06	0.4	0.4	0.4
76	07/08/2009 09:07	0.4	0.4	0.4
77	07/08/2009 09:08	0.3	0.3	0.4
78	07/08/2009 09:09	0.4	0.4	0.4
79	07/08/2009 09:10	0.4	0.4	0.4
80	07/08/2009 09:11	0.4	0.4	0.4
81	07/08/2009 09:12	0.4	0.4	0.4
82	07/08/2009 09:13	0.4	0.4	0.4
83	07/08/2009 09:14	0.4	0.4	0.5
84	07/08/2009 09:15	0.4	0.4	0.4
85	07/08/2009 09:16	0.4	0.4	0.4
86	07/08/2009 09:17	0.3	0.3	0.4
87	07/08/2009 09:18	0.3	0.3	0.4
88	07/08/2009 09:19	0.3	0.3	0.4
89	07/08/2009 09:20	0.3	0.3	0.4
90	07/08/2009 09:21	0.3	0.3	0.4
91	07/08/2009 09:22	0.3	0.3	0.3
92	07/08/2009 09:23	0.3	0.3	0.4
93	07/08/2009 09:24	0.3	0.3	0.4

94	07/08/2009 09:25	0.3	0.3	0.4
95	07/08/2009 09:26	0.3	0.3	0.4
96	07/08/2009 09:27	0.3	0.3	0.4
97	07/08/2009 09:28	0.3	0.3	0.4
98	07/08/2009 09:29	0.3	0.3	0.4
99	07/08/2009 09:30	0.3	0.3	0.4
100	07/08/2009 09:31	0.3	0.3	0.4
101	07/08/2009 09:32	0.3	0.3	0.4
102	07/08/2009 09:33	0.3	0.3	0.4
103	07/08/2009 09:34	0.3	0.3	0.4
104	07/08/2009 09:35	0.3	0.3	0.4
105	07/08/2009 09:36	0.3	0.3	0.4
106	07/08/2009 09:37	0.3	0.3	0.4
107	07/08/2009 09:38	0.3	0.3	0.4
108	07/08/2009 09:39	0.3	0.3	0.4
109	07/08/2009 09:40	0.3	0.3	0.4
110	07/08/2009 09:41	0.3	0.3	0.4
111	07/08/2009 09:42	0.3	0.3	0.4
112	07/08/2009 09:43	0.4	0.4	0.4
113	07/08/2009 09:44	0.4	0.4	0.4
114	07/08/2009 09:45	0.4	0.4	0.4
115	07/08/2009 09:46	0.4	0.4	0.4
116	07/08/2009 09:47	0.3	0.3	0.4
117	07/08/2009 09:48	0.4	0.4	0.4
118	07/08/2009 09:49	0.3	0.3	0.4
119	07/08/2009 09:50	0.4	0.4	0.4
120	07/08/2009 09:51	0.4	0.4	0.4
121	07/08/2009 09:52	0.4	0.4	0.4
122	07/08/2009 09:53	0.4	0.4	0.4
123	07/08/2009 09:54	0.4	0.4	0.4
124	07/08/2009 09:55	0.4	0.4	0.4
125	07/08/2009 09:56	0.4	0.4	0.4
126	07/08/2009 09:57	0.4	0.4	0.4
127	07/08/2009 09:58	0.4	0.4	0.4
128	07/08/2009 09:59	0.4	0.4	0.4
129	07/08/2009 10:00	0.4	0.4	0.4
130	07/08/2009 10:01	0.4	0.4	0.4
131	07/08/2009 10:02	0.4	0.4	0.4
132	07/08/2009 10:03	0.4	0.4	0.4
133	07/08/2009 10:04	0.4	0.4	0.4
134	07/08/2009 10:05	0.4	0.4	0.4
135	07/08/2009 10:06	0.4	0.4	0.4
136	07/08/2009 10:07	0.4	0.4	0.4
137	07/08/2009 10:08	0.4	0.4	0.4
138	07/08/2009 10:09	0.4	0.4	0.4
139	07/08/2009 10:10	0.4	0.4	0.4
140	07/08/2009 10:11	0.4	0.4	0.4
141	07/08/2009 10:12	0.4	0.4	0.4
142	07/08/2009 10:13	0.4	0.4	0.4
143	07/08/2009 10:14	0.4	0.4	0.4
144	07/08/2009 10:15	0.4	0.4	0.4
145	07/08/2009 10:16	0.4	0.4	0.4

146	07/08/2009 10:17	0.4	0.4	0.4
147	07/08/2009 10:18	0.4	0.4	0.4
148	07/08/2009 10:19	0.4	0.4	0.4
149	07/08/2009 10:20	0.4	0.4	0.4
150	07/08/2009 10:21	0.4	0.4	0.4
151	07/08/2009 10:22	0.4	0.4	0.4
152	07/08/2009 10:23	0.4	0.4	0.4
153	07/08/2009 10:24	0.4	0.4	0.5
154	07/08/2009 10:25	0.4	0.4	0.6
155	07/08/2009 10:26	0.4	0.5	1.3
156	07/08/2009 10:27	0.4	0.6	1.1
157	07/08/2009 10:28	0.4	0.4	0.6
158	07/08/2009 10:29	0.4	0.4	0.6
159	07/08/2009 10:30	0.4	0.4	0.6
160	07/08/2009 10:31	0.4	0.4	0.4
161	07/08/2009 10:32	0.4	0.4	0.4
162	07/08/2009 10:33	0.4	0.4	0.4
163	07/08/2009 10:34	0.4	0.4	0.4
164	07/08/2009 10:35	0.4	0.4	0.4
165	07/08/2009 10:36	0.4	0.4	0.4
166	07/08/2009 10:37	0.4	0.4	0.4
167	07/08/2009 10:38	0.4	0.4	0.4
168	07/08/2009 10:39	0.4	0.4	0.4
169	07/08/2009 10:40	0.4	0.4	0.4
170	07/08/2009 10:41	0.4	0.4	0.4
171	07/08/2009 10:42	0.4	0.4	0.4
172	07/08/2009 10:43	0.4	0.4	0.4
173	07/08/2009 10:44	0.4	0.4	0.4
174	07/08/2009 10:45	0.4	0.4	0.4
175	07/08/2009 10:46	0.4	0.4	0.4
176	07/08/2009 10:47	0.4	0.4	0.4
177	07/08/2009 10:48	0.4	0.4	0.4
178	07/08/2009 10:49	0.4	0.4	0.4
179	07/08/2009 10:50	0.4	0.4	0.4
180	07/08/2009 10:51	0.4	0.4	0.4
181	07/08/2009 10:52	0.4	0.4	0.4
182	07/08/2009 10:53	0.4	0.4	0.4
183	07/08/2009 10:54	0.4	0.4	0.4
184	07/08/2009 10:55	0.4	0.4	0.4
185	07/08/2009 10:56	0.4	0.4	0.4
186	07/08/2009 10:57	0.4	0.4	0.4
187	07/08/2009 10:58	0.4	0.4	0.4
188	07/08/2009 10:59	0.4	0.4	0.4
189	07/08/2009 11:00	0.4	0.4	0.4
190	07/08/2009 11:01	0.4	0.4	0.4
191	07/08/2009 11:02	0.4	0.4	0.4
192	07/08/2009 11:03	0.4	0.4	0.4
193	07/08/2009 11:04	0.4	0.4	0.4
194	07/08/2009 11:05	0.4	0.4	0.5
195	07/08/2009 11:06	0.4	0.4	0.5
196	07/08/2009 11:07	0.4	0.4	0.5
197	07/08/2009 11:08	0.4	0.4	0.4



198	07/08/2009 11:09	0.4	0.4	0.4
199	07/08/2009 11:10	0.4	0.4	0.4
200	07/08/2009 11:11	0.4	0.4	0.5
201	07/08/2009 11:12	0.4	0.4	0.5
202	07/08/2009 11:13	0.4	0.4	0.5
203	07/08/2009 11:14	0.5	0.5	0.5
204	07/08/2009 11:15	0.4	0.4	0.5
205	07/08/2009 11:16	0.4	0.4	0.5
206	07/08/2009 11:17	0.4	0.4	0.5
207	07/08/2009 11:18	0.5	0.5	0.5
208	07/08/2009 11:19	0.4	0.4	0.5
209	07/08/2009 11:20	0.4	0.4	0.5
210	07/08/2009 11:21	0.4	0.4	0.5
211	07/08/2009 11:22	0.4	0.4	0.5
212	07/08/2009 11:23	0.4	0.4	0.5
213	07/08/2009 11:24	0.4	0.4	0.5
214	07/08/2009 11:25	0.4	0.4	0.5
215	07/08/2009 11:26	0.4	0.4	0.5
216	07/08/2009 11:27	0.4	0.4	0.5
217	07/08/2009 11:28	0.4	0.4	0.4
218	07/08/2009 11:29	0.4	0.4	0.4
219	07/08/2009 11:30	0.4	0.4	0.4
220	07/08/2009 11:31	0.4	0.4	0.4
221	07/08/2009 11:32	0.4	0.4	0.4
222	07/08/2009 11:33	0.4	0.4	0.4
223	07/08/2009 11:34	0.4	0.4	0.4
224	07/08/2009 11:35	0.4	0.4	0.4
225	07/08/2009 11:36	0.4	0.4	0.4
226	07/08/2009 11:37	0.4	0.4	0.4
227	07/08/2009 11:38	0.4	0.4	0.4
228	07/08/2009 11:39	0.4	0.4	0.4
229	07/08/2009 11:40	0.4	0.4	0.4
230	07/08/2009 11:41	0.4	0.4	0.4
231	07/08/2009 11:42	0.4	0.4	0.4
232	07/08/2009 11:43	0.4	0.4	0.4
233	07/08/2009 11:44	0.4	0.4	0.4
234	07/08/2009 11:45	0.4	0.4	0.4
235	07/08/2009 11:46	0.4	0.4	0.4
236	07/08/2009 11:47	0.4	0.4	0.4
237	07/08/2009 11:48	0.4	0.4	0.4
238	07/08/2009 11:49	0.4	0.4	0.4
239	07/08/2009 11:50	0.4	0.4	0.4
240	07/08/2009 11:51	0.4	0.4	0.4
241	07/08/2009 11:52	0.4	0.4	0.4
242	07/08/2009 11:53	0.4	0.4	0.4
243	07/08/2009 11:54	0.4	0.4	0.4
244	07/08/2009 11:55	0.4	0.4	0.4
245	07/08/2009 11:56	0.4	0.4	0.4
246	07/08/2009 11:57	0.4	0.4	0.4
247	07/08/2009 11:58	0.4	0.4	0.4
248	07/08/2009 11:59	0.4	0.4	0.4
249	07/08/2009 12:00	0.4	0.4	0.4

250	07/08/2009 12:01	0.4	0.4	0.4
251	07/08/2009 12:02	0.4	0.4	0.4
252	07/08/2009 12:03	0.4	0.4	0.4
253	07/08/2009 12:04	0.4	0.4	0.4
254	07/08/2009 12:05	0.4	0.4	0.4
255	07/08/2009 12:06	0.4	0.4	0.4
256	07/08/2009 12:07	0.4	0.4	0.4
257	07/08/2009 12:08	0.4	0.4	0.4
258	07/08/2009 12:09	0.4	0.4	0.4
259	07/08/2009 12:10	0.4	0.4	0.4
260	07/08/2009 12:11	0.4	0.4	0.4
261	07/08/2009 12:12	0.4	0.4	0.4
262	07/08/2009 12:13	0.4	0.4	0.4
263	07/08/2009 12:14	0.4	0.4	0.5
264	07/08/2009 12:15	0.4	0.4	0.4
265	07/08/2009 12:16	0.4	0.4	0.5
266	07/08/2009 12:17	0.4	0.4	0.5
267	07/08/2009 12:18	0.4	0.4	0.4
268	07/08/2009 12:19	0.4	0.4	0.5
269	07/08/2009 12:20	0.4	0.4	0.4
270	07/08/2009 12:21	0.4	0.4	0.4
271	07/08/2009 12:22	0.4	0.4	0.4
272	07/08/2009 12:23	0.4	0.4	0.7
273	07/08/2009 12:24	0.4	0.4	0.5
274	07/08/2009 12:25	0.4	0.4	0.5
275	07/08/2009 12:26	0.3	0.3	0.4
276	07/08/2009 12:27	0.3	0.3	0.4
277	07/08/2009 12:28	0.4	0.4	0.4
278	07/08/2009 12:29	0.4	0.4	0.4
279	07/08/2009 12:30	0.4	0.4	0.4
280	07/08/2009 12:31	0.4	0.4	0.5
281	07/08/2009 12:32	0.4	0.4	0.5
282	07/08/2009 12:33	0.4	0.4	0.4
283	07/08/2009 12:34	0.4	0.4	0.6
284	07/08/2009 12:35	0.4	0.4	0.5
285	07/08/2009 12:36	0.4	0.4	0.4
286	07/08/2009 12:37	0.4	0.4	0.7
287	07/08/2009 12:38	0.4	0.4	0.7
288	07/08/2009 12:39	0.3	0.4	0.5
289	07/08/2009 12:40	0.3	0.3	0.4
290	07/08/2009 12:41	0.4	0.4	0.4
291	07/08/2009 12:42	0.4	0.4	0.5
292	07/08/2009 12:43	0.4	0.4	0.4
293	07/08/2009 12:44	0.4	0.4	0.4
294	07/08/2009 12:45	0.4	0.4	0.4
295	07/08/2009 12:46	0.4	0.4	0.4
296	07/08/2009 12:47	0.4	0.4	0.4
297	07/08/2009 12:48	0.4	0.4	0.5
298	07/08/2009 12:49	0.4	0.4	0.4
299	07/08/2009 12:50	0.4	0.4	0.5
300	07/08/2009 12:51	0.4	0.4	0.5
301	07/08/2009 12:52	0.4	0.4	0.4

302	07/08/2009 12:53	0.4	0.4	0.4
303	07/08/2009 12:54	0.4	0.4	0.4
304	07/08/2009 12:55	0.4	0.4	0.4
305	07/08/2009 12:56	0.3	0.3	0.4
306	07/08/2009 12:57	0.4	0.4	0.4
307	07/08/2009 12:58	0.4	0.4	0.4
308	07/08/2009 12:59	0.4	0.4	0.4
309	07/08/2009 13:00	0.4	0.4	0.5
310	07/08/2009 13:01	0.4	0.4	0.4
311	07/08/2009 13:02	0.4	0.4	0.5
312	07/08/2009 13:03	0.4	0.4	0.4
313	07/08/2009 13:04	0.3	0.3	0.4
314	07/08/2009 13:05	0.4	0.4	0.4
315	07/08/2009 13:06	0.3	0.3	0.4
316	07/08/2009 13:07	0.4	0.4	0.6
317	07/08/2009 13:08	0.3	0.3	0.4
318	07/08/2009 13:09	0.3	0.4	0.7
319	07/08/2009 13:10	0.3	0.4	0.8
320	07/08/2009 13:11	0.3	0.3	0.8
321	07/08/2009 13:12	0.3	0.3	0.6
322	07/08/2009 13:13	0.3	0.3	0.5
323	07/08/2009 13:14	0.3	0.4	0.6
324	07/08/2009 13:15	0.3	0.3	0.5
325	07/08/2009 13:16	0.3	0.3	0.5
326	07/08/2009 13:17	0.3	0.3	0.6
327	07/08/2009 13:18	0.3	0.4	0.5
328	07/08/2009 13:19	0.3	0.3	0.6
329	07/08/2009 13:20	0.3	0.3	0.4
330	07/08/2009 13:21	0.3	0.3	0.4
331	07/08/2009 13:22	0.4	0.4	0.5
332	07/08/2009 13:23	0.3	0.3	0.4
333	07/08/2009 13:24	0.3	0.4	0.5
334	07/08/2009 13:25	0.3	0.4	0.5
335	07/08/2009 13:26	0.3	0.3	0.4
336	07/08/2009 13:27	0.3	0.3	0.4
337	07/08/2009 13:28	0.4	0.4	0.5
338	07/08/2009 13:29	0.3	0.3	0.4
339	07/08/2009 13:30	0.3	0.3	0.4
340	07/08/2009 13:31	0.4	0.4	0.5
341	07/08/2009 13:32	0.4	0.4	0.5
342	07/08/2009 13:33	0.3	0.4	0.6
343	07/08/2009 13:34	0.3	0.4	0.8
344	07/08/2009 13:35	0.4	0.4	0.5
345	07/08/2009 13:36	0.3	0.3	0.4
346	07/08/2009 13:37	0.4	0.4	0.5
347	07/08/2009 13:38	0.3	0.3	0.4
348	07/08/2009 13:39	0.3	0.3	0.4
349	07/08/2009 13:40	0.4	0.4	0.6
350	07/08/2009 13:41	0.4	0.4	0.5
351	07/08/2009 13:42	0.4	0.4	0.4
352	07/08/2009 13:43	0.3	0.3	0.4
353	07/08/2009 13:44	0.3	0.3	0.4

354	07/08/2009 13:45	0.3	0.3	0.4
355	07/08/2009 13:46	0.3	0.3	0.4
356	07/08/2009 13:47	0.3	0.3	0.4
357	07/08/2009 13:48	0.3	0.3	0.4
358	07/08/2009 13:49	0.3	0.3	0.4
359	07/08/2009 13:50	0.3	0.3	0.4
360	07/08/2009 13:51	0.4	0.4	0.4
361	07/08/2009 13:52	0.4	0.4	0.4
362	07/08/2009 13:53	0.4	0.4	0.4
363	07/08/2009 13:54	0.4	0.4	0.4
364	07/08/2009 13:55	0.4	0.4	0.4
365	07/08/2009 13:56	0.4	0.4	0.4
366	07/08/2009 13:57	0.4	0.4	0.4
367	07/08/2009 13:58	0.4	0.4	0.4
368	07/08/2009 13:59	0.4	0.4	0.4
369	07/08/2009 14:00	0.4	0.4	0.4
370	07/08/2009 14:01	0.4	0.4	0.4
371	07/08/2009 14:02	0.4	0.4	0.4
372	07/08/2009 14:03	0.4	0.4	0.4
373	07/08/2009 14:04	0.4	0.4	0.4
374	07/08/2009 14:05	0.4	0.4	0.5
375	07/08/2009 14:06	0.4	0.4	0.5
376	07/08/2009 14:07	0.4	0.4	0.5
377	07/08/2009 14:08	0.4	0.4	0.5
378	07/08/2009 14:09	0.4	0.4	0.5
379	07/08/2009 14:10	0.4	0.4	0.5
380	07/08/2009 14:11	0.4	0.4	0.5
381	07/08/2009 14:12	0.5	0.5	0.5
382	07/08/2009 14:13	0.5	0.5	0.5
383	07/08/2009 14:14	0.5	0.5	0.7
384	07/08/2009 14:15	0.5	0.5	0.5
385	07/08/2009 14:16	0.5	0.5	0.5
386	07/08/2009 14:17	0.5	0.5	0.5
387	07/08/2009 14:18	0.5	0.5	0.5
388	07/08/2009 14:19	0.5	0.5	0.5
389	07/08/2009 14:20	0.5	0.5	0.5
390	07/08/2009 14:21	0.5	0.5	0.5
391	07/08/2009 14:22	0.5	0.5	0.5
392	07/08/2009 14:23	0.5	0.5	0.5
393	07/08/2009 14:24	0.5	0.5	0.5
394	07/08/2009 14:25	0.5	0.5	0.5
395	07/08/2009 14:26	0.5	0.5	0.5
396	07/08/2009 14:27	0.5	0.5	0.5
397	07/08/2009 14:28	0.5	0.5	0.5
398	07/08/2009 14:29	0.5	0.5	0.5
399	07/08/2009 14:30	0.5	0.5	0.5
400	07/08/2009 14:31	0.5	0.5	0.5
401	07/08/2009 14:32	0.5	0.5	0.5

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 011894  
User ID: 00000001 Site ID: Station2  
Data Points: 406 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:39

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0        25.0        25.0
Low Alarm Levels:      5.0         5.0         5.0
=====
```

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

```
1 07/08/2009 07:47      0.0        0.0        0.0
2 07/08/2009 07:48      0.0        0.0        0.0
3 07/08/2009 07:49      0.0        0.0        0.0
4 07/08/2009 07:50      0.0        0.0        0.0
5 07/08/2009 07:51      0.0        0.0        0.0
6 07/08/2009 07:52      0.0        0.0        0.0
7 07/08/2009 07:53      0.0        0.0        0.0
8 07/08/2009 07:54      0.0        0.0        0.0
9 07/08/2009 07:55      0.0        0.0        0.0
10 07/08/2009 07:56      0.0        0.0        0.0
11 07/08/2009 07:57      0.0        0.0        0.0
12 07/08/2009 07:58      0.0        0.0        0.0
13 07/08/2009 07:59      0.0        0.0        0.0
14 07/08/2009 08:00      0.0        0.0        0.0
15 07/08/2009 08:01      0.0        0.0        0.0
16 07/08/2009 08:02      0.0        0.0        0.0
17 07/08/2009 08:03      0.0        0.0        0.0
18 07/08/2009 08:04      0.0        0.0        0.0
19 07/08/2009 08:05      0.0        0.0        0.0
20 07/08/2009 08:06      0.0        0.0        0.0
21 07/08/2009 08:07      0.0        0.0        0.0
22 07/08/2009 08:08      0.0        0.0        0.0
23 07/08/2009 08:09      0.0        0.0        0.0
24 07/08/2009 08:10      0.0        0.0        0.0
25 07/08/2009 08:11      0.0        0.0        0.0
26 07/08/2009 08:12      0.0        0.0        0.0
27 07/08/2009 08:13      0.0        0.0        0.0
28 07/08/2009 08:14      0.0        0.0        0.0
29 07/08/2009 08:15      0.0        0.0        0.0
30 07/08/2009 08:16      0.0        0.0        0.0
31 07/08/2009 08:17      0.0        0.0        0.0
32 07/08/2009 08:18      0.0        0.0        0.0
33 07/08/2009 08:19      0.0        0.0        0.0
34 07/08/2009 08:20      0.0        0.0        0.0
35 07/08/2009 08:21      0.0        0.0        0.0
36 07/08/2009 08:22      0.0        0.0        0.0
37 07/08/2009 08:23      0.0        0.0        0.0
38 07/08/2009 08:24      0.0        0.0        0.0
39 07/08/2009 08:25      0.0        0.0        0.0
40 07/08/2009 08:26      0.0        0.0        0.0
41 07/08/2009 08:27      0.0        0.0        0.0
```

42	07/08/2009 08:28	0.0	0.0	0.0
43	07/08/2009 08:29	0.0	0.0	0.0
44	07/08/2009 08:30	0.0	0.0	0.0
45	07/08/2009 08:31	0.0	0.0	0.0
46	07/08/2009 08:32	0.0	0.0	0.0
47	07/08/2009 08:33	0.0	0.0	0.0
48	07/08/2009 08:34	0.0	0.0	0.0
49	07/08/2009 08:35	0.0	0.0	0.0
50	07/08/2009 08:36	0.0	0.0	0.0
51	07/08/2009 08:37	0.0	0.0	0.0
52	07/08/2009 08:38	0.0	0.0	0.0
53	07/08/2009 08:39	0.0	0.0	0.0
54	07/08/2009 08:40	0.0	0.0	0.0
55	07/08/2009 08:41	0.0	0.0	0.1
56	07/08/2009 08:42	0.0	0.0	0.0
57	07/08/2009 08:43	0.0	0.0	0.3
58	07/08/2009 08:44	0.0	0.0	0.1
59	07/08/2009 08:45	0.0	0.0	0.1
60	07/08/2009 08:46	0.0	0.0	0.1
61	07/08/2009 08:47	0.0	0.0	0.0
62	07/08/2009 08:48	0.0	0.0	0.0
63	07/08/2009 08:49	0.0	0.0	0.0
64	07/08/2009 08:50	0.0	0.0	0.0
65	07/08/2009 08:51	0.0	0.0	0.0
66	07/08/2009 08:52	0.0	0.0	0.0
67	07/08/2009 08:53	0.0	0.0	0.1
68	07/08/2009 08:54	0.0	0.0	0.0
69	07/08/2009 08:55	0.0	0.0	0.0
70	07/08/2009 08:56	0.0	0.0	0.1
71	07/08/2009 08:57	0.0	0.0	0.1
72	07/08/2009 08:58	0.0	0.0	0.0
73	07/08/2009 08:59	0.0	0.0	0.2
74	07/08/2009 09:00	0.0	0.0	0.1
75	07/08/2009 09:01	0.0	0.0	0.1
76	07/08/2009 09:02	0.0	0.0	0.0
77	07/08/2009 09:03	0.0	0.0	0.1
78	07/08/2009 09:04	0.0	0.0	0.1
79	07/08/2009 09:05	0.0	0.0	0.1
80	07/08/2009 09:06	0.0	0.0	0.1
81	07/08/2009 09:07	0.0	0.0	0.1
82	07/08/2009 09:08	0.0	0.0	0.3
83	07/08/2009 09:09	0.0	0.0	0.3
84	07/08/2009 09:10	0.0	0.0	0.3
85	07/08/2009 09:11	0.0	0.0	0.1
86	07/08/2009 09:12	0.0	0.0	0.1
87	07/08/2009 09:13	0.0	0.0	0.1
88	07/08/2009 09:14	0.0	0.0	0.1
89	07/08/2009 09:15	0.0	0.0	0.1
90	07/08/2009 09:16	0.0	0.0	0.1
91	07/08/2009 09:17	0.0	0.0	0.1
92	07/08/2009 09:18	0.0	0.0	0.1
93	07/08/2009 09:19	0.0	0.0	0.1

94	07/08/2009 09:20	0.0	0.0	0.2
95	07/08/2009 09:21	0.0	0.0	0.1
96	07/08/2009 09:22	0.0	0.0	0.2
97	07/08/2009 09:23	0.0	0.0	0.3
98	07/08/2009 09:24	0.0	0.0	0.1
99	07/08/2009 09:25	0.0	0.0	0.1
100	07/08/2009 09:26	0.0	0.0	0.1
101	07/08/2009 09:27	0.0	0.0	0.1
102	07/08/2009 09:28	0.0	0.0	0.1
103	07/08/2009 09:29	0.0	0.0	0.1
104	07/08/2009 09:30	0.0	0.0	0.1
105	07/08/2009 09:31	0.0	0.0	0.1
106	07/08/2009 09:32	0.0	0.0	0.1
107	07/08/2009 09:33	0.0	0.0	0.2
108	07/08/2009 09:34	0.0	0.0	0.1
109	07/08/2009 09:35	0.0	0.0	0.1
110	07/08/2009 09:36	0.0	0.0	0.1
111	07/08/2009 09:37	0.0	0.0	0.1
112	07/08/2009 09:38	0.0	0.0	0.1
113	07/08/2009 09:39	0.0	0.0	0.1
114	07/08/2009 09:40	0.0	0.0	0.1
115	07/08/2009 09:41	0.0	0.0	0.1
116	07/08/2009 09:42	0.0	0.0	0.1
117	07/08/2009 09:43	0.0	0.0	0.1
118	07/08/2009 09:44	0.0	0.0	0.1
119	07/08/2009 09:45	0.0	0.0	0.1
120	07/08/2009 09:46	0.0	0.0	0.1
121	07/08/2009 09:47	0.0	0.0	0.1
122	07/08/2009 09:48	0.0	0.0	0.1
123	07/08/2009 09:49	0.0	0.0	0.2
124	07/08/2009 09:50	0.0	0.0	0.2
125	07/08/2009 09:51	0.0	0.0	0.1
126	07/08/2009 09:52	0.0	0.0	0.2
127	07/08/2009 09:53	0.0	0.0	0.2
128	07/08/2009 09:54	0.0	0.0	0.2
129	07/08/2009 09:55	0.0	0.0	0.1
130	07/08/2009 09:56	0.0	0.0	0.2
131	07/08/2009 09:57	0.0	0.0	0.2
132	07/08/2009 09:58	0.0	0.0	0.1
133	07/08/2009 09:59	0.0	0.0	0.1
134	07/08/2009 10:00	0.0	0.0	0.2
135	07/08/2009 10:01	0.0	0.0	0.2
136	07/08/2009 10:02	0.0	0.0	0.2
137	07/08/2009 10:03	0.0	0.0	0.2
138	07/08/2009 10:04	0.0	0.1	0.2
139	07/08/2009 10:05	0.0	0.0	0.2
140	07/08/2009 10:06	0.0	0.0	0.2
141	07/08/2009 10:07	0.0	0.0	0.2
142	07/08/2009 10:08	0.0	0.0	0.2
143	07/08/2009 10:09	0.0	0.0	0.2
144	07/08/2009 10:10	0.0	0.1	0.2
145	07/08/2009 10:11	0.0	0.0	0.2

146	07/08/2009 10:12	0.0	0.0	0.2
147	07/08/2009 10:13	0.0	0.1	0.2
148	07/08/2009 10:14	0.0	0.1	0.2
149	07/08/2009 10:15	0.0	0.1	0.2
150	07/08/2009 10:16	0.0	0.1	0.2
151	07/08/2009 10:17	0.0	0.0	0.2
152	07/08/2009 10:18	0.0	0.1	0.2
153	07/08/2009 10:19	0.0	0.0	0.2
154	07/08/2009 10:20	0.0	0.1	0.2
155	07/08/2009 10:21	0.1	0.1	0.2
156	07/08/2009 10:22	0.0	0.2	1.0
157	07/08/2009 10:23	0.1	0.4	1.7
158	07/08/2009 10:24	0.4	1.8	5.4L
159	07/08/2009 10:25	0.1	0.4	2.2
160	07/08/2009 10:26	0.1	0.1	0.2
161	07/08/2009 10:27	0.1	0.1	0.2
162	07/08/2009 10:28	0.1	0.1	0.3
163	07/08/2009 10:29	0.0	0.1	0.3
164	07/08/2009 10:30	0.1	0.1	0.2
165	07/08/2009 10:31	0.1	0.1	0.3
166	07/08/2009 10:32	0.1	0.2	0.3
167	07/08/2009 10:33	0.1	0.2	0.3
168	07/08/2009 10:34	0.1	0.2	0.3
169	07/08/2009 10:35	0.2	0.2	0.3
170	07/08/2009 10:36	0.2	0.2	0.3
171	07/08/2009 10:37	0.2	0.2	0.3
172	07/08/2009 10:38	0.2	0.2	0.4
173	07/08/2009 10:39	0.2	0.2	0.3
174	07/08/2009 10:40	0.2	0.2	0.4
175	07/08/2009 10:41	0.2	0.2	0.4
176	07/08/2009 10:42	0.2	0.3	0.4
177	07/08/2009 10:43	0.2	0.3	0.4
178	07/08/2009 10:44	0.2	0.3	0.4
179	07/08/2009 10:45	0.2	0.3	0.4
180	07/08/2009 10:46	0.2	0.3	0.4
181	07/08/2009 10:47	0.2	0.3	0.4
182	07/08/2009 10:48	0.2	0.3	0.4
183	07/08/2009 10:49	0.3	0.3	0.4
184	07/08/2009 10:50	0.2	0.3	0.4
185	07/08/2009 10:51	0.3	0.3	0.4
186	07/08/2009 10:52	0.3	0.3	0.4
187	07/08/2009 10:53	0.2	0.3	0.5
188	07/08/2009 10:54	0.2	0.3	0.4
189	07/08/2009 10:55	0.3	0.3	0.4
190	07/08/2009 10:56	0.2	0.3	0.4
191	07/08/2009 10:57	0.2	0.3	0.4
192	07/08/2009 10:58	0.3	0.3	0.4
193	07/08/2009 10:59	0.2	0.3	0.4
194	07/08/2009 11:00	0.3	0.3	0.5
195	07/08/2009 11:01	0.3	0.3	0.4
196	07/08/2009 11:02	0.2	0.3	0.4
197	07/08/2009 11:03	0.2	0.3	0.4



198	07/08/2009 11:04	0.2	0.3	0.4
199	07/08/2009 11:05	0.3	0.3	0.4
200	07/08/2009 11:06	0.3	0.3	0.4
201	07/08/2009 11:07	0.3	0.3	0.5
202	07/08/2009 11:08	0.2	0.3	0.4
203	07/08/2009 11:09	0.2	0.3	0.4
204	07/08/2009 11:10	0.2	0.3	0.4
205	07/08/2009 11:11	0.2	0.3	0.4
206	07/08/2009 11:12	0.2	0.3	0.4
207	07/08/2009 11:13	0.2	0.3	0.4
208	07/08/2009 11:14	0.2	0.3	0.4
209	07/08/2009 11:15	0.2	0.3	0.4
210	07/08/2009 11:16	0.2	0.3	0.4
211	07/08/2009 11:17	0.2	0.3	0.4
212	07/08/2009 11:18	0.2	0.2	0.4
213	07/08/2009 11:19	0.2	0.2	0.4
214	07/08/2009 11:20	0.2	0.2	0.4
215	07/08/2009 11:21	0.2	0.2	0.3
216	07/08/2009 11:22	0.2	0.2	0.4
217	07/08/2009 11:23	0.2	0.2	0.4
218	07/08/2009 11:24	0.2	0.2	0.4
219	07/08/2009 11:25	0.2	0.2	0.3
220	07/08/2009 11:26	0.2	0.2	0.3
221	07/08/2009 11:27	0.1	0.2	0.3
222	07/08/2009 11:28	0.1	0.2	0.3
223	07/08/2009 11:29	0.1	0.2	0.3
224	07/08/2009 11:30	0.2	0.2	0.3
225	07/08/2009 11:31	0.2	0.2	0.3
226	07/08/2009 11:32	0.1	0.2	0.3
227	07/08/2009 11:33	0.1	0.2	0.3
228	07/08/2009 11:34	0.1	0.2	0.3
229	07/08/2009 11:35	0.2	0.2	0.3
230	07/08/2009 11:36	0.2	0.2	0.3
231	07/08/2009 11:37	0.1	0.2	0.3
232	07/08/2009 11:38	0.1	0.2	0.3
233	07/08/2009 11:39	0.1	0.2	0.3
234	07/08/2009 11:40	0.2	0.2	0.4
235	07/08/2009 11:41	0.2	0.2	0.3
236	07/08/2009 11:42	0.1	0.2	0.3
237	07/08/2009 11:43	0.2	0.2	0.3
238	07/08/2009 11:44	0.2	0.2	0.3
239	07/08/2009 11:45	0.2	0.2	0.3
240	07/08/2009 11:46	0.1	0.2	0.3
241	07/08/2009 11:47	0.2	0.2	0.3
242	07/08/2009 11:48	0.2	0.2	0.3
243	07/08/2009 11:49	0.2	0.2	0.3
244	07/08/2009 11:50	0.1	0.2	0.3
245	07/08/2009 11:51	0.2	0.2	0.3
246	07/08/2009 11:52	0.2	0.2	0.3
247	07/08/2009 11:53	0.2	0.2	0.3
248	07/08/2009 11:54	0.2	0.2	0.3
249	07/08/2009 11:55	0.2	0.2	0.3

250	07/08/2009 11:56	0.2	0.2	0.3
251	07/08/2009 11:57	0.2	0.2	0.3
252	07/08/2009 11:58	0.2	0.2	0.4
253	07/08/2009 11:59	0.1	0.2	0.3
254	07/08/2009 12:00	0.2	0.2	0.3
255	07/08/2009 12:01	0.2	0.2	0.3
256	07/08/2009 12:02	0.2	0.2	0.3
257	07/08/2009 12:03	0.2	0.2	0.4
258	07/08/2009 12:04	0.2	0.2	0.4
259	07/08/2009 12:05	0.2	0.2	0.3
260	07/08/2009 12:06	0.2	0.2	0.4
261	07/08/2009 12:07	0.2	0.2	0.3
262	07/08/2009 12:08	0.2	0.2	0.4
263	07/08/2009 12:09	0.2	0.2	0.4
264	07/08/2009 12:10	0.2	0.2	0.4
265	07/08/2009 12:11	0.2	0.2	0.3
266	07/08/2009 12:12	0.2	0.2	0.3
267	07/08/2009 12:13	0.2	0.2	0.4
268	07/08/2009 12:14	0.2	0.3	0.6
269	07/08/2009 12:15	0.2	0.3	0.7
270	07/08/2009 12:16	0.2	0.2	0.4
271	07/08/2009 12:17	0.2	0.2	0.3
272	07/08/2009 12:18	0.2	0.2	0.3
273	07/08/2009 12:19	0.2	0.2	0.5
274	07/08/2009 12:20	0.1	0.2	0.6
275	07/08/2009 12:21	0.1	0.2	0.3
276	07/08/2009 12:22	0.1	0.1	0.3
277	07/08/2009 12:23	0.1	0.1	0.2
278	07/08/2009 12:24	0.1	0.2	0.4
279	07/08/2009 12:25	0.1	0.1	0.2
280	07/08/2009 12:26	0.1	0.1	0.3
281	07/08/2009 12:27	0.1	0.1	0.3
282	07/08/2009 12:28	0.1	0.1	0.3
283	07/08/2009 12:29	0.1	0.2	0.5
284	07/08/2009 12:30	0.1	0.2	0.5
285	07/08/2009 12:31	0.1	0.1	0.3
286	07/08/2009 12:32	0.1	0.1	0.3
287	07/08/2009 12:33	0.1	0.2	0.3
288	07/08/2009 12:34	0.1	0.1	0.4
289	07/08/2009 12:35	0.1	0.1	0.3
290	07/08/2009 12:36	0.1	0.1	0.2
291	07/08/2009 12:37	0.1	0.1	0.2
292	07/08/2009 12:38	0.1	0.1	0.2
293	07/08/2009 12:39	0.1	0.2	0.3
294	07/08/2009 12:40	0.0	0.1	0.2
295	07/08/2009 12:41	0.0	0.1	0.2
296	07/08/2009 12:42	0.0	0.1	0.2
297	07/08/2009 12:43	0.0	0.1	0.2
298	07/08/2009 12:44	0.0	0.1	0.2
299	07/08/2009 12:45	0.0	0.1	0.2
300	07/08/2009 12:46	0.0	0.1	0.2
301	07/08/2009 12:47	0.0	0.1	0.2

302	07/08/2009 12:48	0.0	0.1	0.2
303	07/08/2009 12:49	0.0	0.1	0.2
304	07/08/2009 12:50	0.0	0.1	0.2
305	07/08/2009 12:51	0.0	0.1	0.2
306	07/08/2009 12:52	0.1	0.1	0.3
307	07/08/2009 12:53	0.0	0.1	0.2
308	07/08/2009 12:54	0.0	0.1	0.3
309	07/08/2009 12:55	0.0	0.0	0.2
310	07/08/2009 12:56	0.0	0.0	0.2
311	07/08/2009 12:57	0.0	0.0	0.2
312	07/08/2009 12:58	0.0	0.0	0.2
313	07/08/2009 12:59	0.0	0.0	0.2
314	07/08/2009 13:00	0.0	0.0	0.1
315	07/08/2009 13:01	0.0	0.0	0.2
316	07/08/2009 13:02	0.0	0.0	0.1
317	07/08/2009 13:03	0.0	0.0	0.2
318	07/08/2009 13:04	0.0	0.0	0.1
319	07/08/2009 13:05	0.0	0.0	0.1
320	07/08/2009 13:06	0.0	0.0	0.2
321	07/08/2009 13:07	0.0	0.0	0.1
322	07/08/2009 13:08	0.0	0.0	0.1
323	07/08/2009 13:09	0.0	0.0	0.1
324	07/08/2009 13:10	0.0	0.0	0.1
325	07/08/2009 13:11	0.0	0.0	0.1
326	07/08/2009 13:12	0.0	0.0	0.1
327	07/08/2009 13:13	0.0	0.0	0.1
328	07/08/2009 13:14	0.0	0.0	0.1
329	07/08/2009 13:15	0.0	0.0	0.2
330	07/08/2009 13:16	0.0	0.0	0.5
331	07/08/2009 13:17	0.0	0.0	0.4
332	07/08/2009 13:18	0.0	0.0	0.2
333	07/08/2009 13:19	0.0	0.0	0.1
334	07/08/2009 13:20	0.0	0.0	0.1
335	07/08/2009 13:21	0.0	0.0	0.1
336	07/08/2009 13:22	0.0	0.0	0.1
337	07/08/2009 13:23	0.0	0.0	0.1
338	07/08/2009 13:24	0.0	0.0	0.1
339	07/08/2009 13:25	0.0	0.0	0.1
340	07/08/2009 13:26	0.0	0.0	0.2
341	07/08/2009 13:27	0.0	0.0	0.3
342	07/08/2009 13:28	0.0	0.0	0.0
343	07/08/2009 13:29	0.0	0.0	0.2
344	07/08/2009 13:30	0.0	0.0	0.2
345	07/08/2009 13:31	0.0	0.0	0.2
346	07/08/2009 13:32	0.0	0.0	0.1
347	07/08/2009 13:33	0.0	0.0	0.3
348	07/08/2009 13:34	0.0	0.0	0.1
349	07/08/2009 13:35	0.0	0.0	0.0
350	07/08/2009 13:36	0.0	0.0	0.2
351	07/08/2009 13:37	0.0	0.0	0.1
352	07/08/2009 13:38	0.0	0.0	0.1
353	07/08/2009 13:39	0.0	0.0	0.1

354	07/08/2009 13:40	0.0	0.0	0.1
355	07/08/2009 13:41	0.0	0.0	0.1
356	07/08/2009 13:42	0.0	0.0	0.1
357	07/08/2009 13:43	0.0	0.0	0.1
358	07/08/2009 13:44	0.0	0.0	0.1
359	07/08/2009 13:45	0.0	0.0	0.1
360	07/08/2009 13:46	0.0	0.0	0.1
361	07/08/2009 13:47	0.0	0.0	0.1
362	07/08/2009 13:48	0.0	0.0	0.1
363	07/08/2009 13:49	0.0	0.0	0.1
364	07/08/2009 13:50	0.0	0.0	0.1
365	07/08/2009 13:51	0.0	0.0	0.2
366	07/08/2009 13:52	0.0	0.0	0.1
367	07/08/2009 13:53	0.0	0.0	0.1
368	07/08/2009 13:54	0.0	0.0	0.1
369	07/08/2009 13:55	0.0	0.0	0.2
370	07/08/2009 13:56	0.0	0.0	0.1
371	07/08/2009 13:57	0.0	0.0	0.1
372	07/08/2009 13:58	0.0	0.0	0.1
373	07/08/2009 13:59	0.0	0.1	0.2
374	07/08/2009 14:00	0.0	0.0	0.2
375	07/08/2009 14:01	0.0	0.1	0.2
376	07/08/2009 14:02	0.0	0.1	0.2
377	07/08/2009 14:03	0.1	0.1	0.2
378	07/08/2009 14:04	0.1	0.1	0.2
379	07/08/2009 14:05	0.1	0.1	0.2
380	07/08/2009 14:06	0.1	0.1	0.2
381	07/08/2009 14:07	0.1	0.1	0.2
382	07/08/2009 14:08	0.1	0.1	0.2
383	07/08/2009 14:09	0.1	0.1	0.2
384	07/08/2009 14:10	0.1	0.1	0.3
385	07/08/2009 14:11	0.1	0.1	0.3
386	07/08/2009 14:12	0.1	0.1	0.3
387	07/08/2009 14:13	0.1	0.1	0.3
388	07/08/2009 14:14	0.1	0.2	0.3
389	07/08/2009 14:15	0.1	0.2	0.3
390	07/08/2009 14:16	0.1	0.2	0.3
391	07/08/2009 14:17	0.1	0.2	0.3
392	07/08/2009 14:18	0.1	0.2	0.3
393	07/08/2009 14:19	0.1	0.2	0.3
394	07/08/2009 14:20	0.1	0.2	0.3
395	07/08/2009 14:21	0.1	0.2	0.3
396	07/08/2009 14:22	0.2	0.2	0.3
397	07/08/2009 14:23	0.1	0.2	0.3
398	07/08/2009 14:24	0.1	0.2	0.3
399	07/08/2009 14:25	0.2	0.2	0.3
400	07/08/2009 14:26	0.2	0.2	0.3
401	07/08/2009 14:27	0.2	0.2	0.3
402	07/08/2009 14:28	0.2	0.2	0.3
403	07/08/2009 14:29	0.2	0.2	0.3
404	07/08/2009 14:30	0.2	0.2	0.4
405	07/08/2009 14:31	0.2	0.2	0.3

406	07/08/2009 14:32	0.2	0.2	0.4
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Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902326  
User ID: 00000001 Site ID: Station3  
Data Points: 408 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/03/2009 12:37

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
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```
=====
Line#   Date Time   Min(ppm)   Avg(ppm)   Max(ppm)
=====
```

```
1 07/08/2009 07:36    1.6    3.0    4.3
2 07/08/2009 07:37    3.0    3.4    4.2
3 07/08/2009 07:38    2.5    2.9    3.3
4 07/08/2009 07:39    1.7    2.0    2.6
5 07/08/2009 07:40    1.3    1.4    1.7
6 07/08/2009 07:41    1.3    1.4    1.6
7 07/08/2009 07:42    1.2    1.3    1.6
8 07/08/2009 07:43    1.5    1.6    1.8
9 07/08/2009 07:44    1.6    1.7    2.1
10 07/08/2009 07:45   1.3    1.4    1.7
11 07/08/2009 07:46   1.2    1.3    1.5
12 07/08/2009 07:47   1.2    1.3    1.6
13 07/08/2009 07:48   1.2    1.3    1.6
14 07/08/2009 07:49   1.1    1.2    1.4
15 07/08/2009 07:50   0.9    1.0    1.3
16 07/08/2009 07:51   0.8    0.9    1.1
17 07/08/2009 07:52   0.7    0.7    0.8
18 07/08/2009 07:53   0.7    0.8    0.9
19 07/08/2009 07:54   0.8    0.9    1.1
20 07/08/2009 07:55   0.9    1.0    1.2
21 07/08/2009 07:56   0.9    0.9    1.0
22 07/08/2009 07:57   0.9    1.1    1.3
23 07/08/2009 07:58   1.0    1.1    1.4
24 07/08/2009 07:59   0.9    1.0    1.3
25 07/08/2009 08:00   0.9    0.9    1.1
26 07/08/2009 08:01   0.9    1.0    1.2
27 07/08/2009 08:02   0.9    1.0    1.1
28 07/08/2009 08:03   0.8    0.9    1.1
29 07/08/2009 08:04   0.7    0.8    1.0
30 07/08/2009 08:05   0.7    0.7    0.8
31 07/08/2009 08:06   0.6    0.7    0.9
32 07/08/2009 08:07   0.6    0.7    0.8
33 07/08/2009 08:08   0.6    0.6    0.7
34 07/08/2009 08:09   0.6    0.6    0.8
35 07/08/2009 08:10   0.6    0.7    0.8
36 07/08/2009 08:11   0.7    0.7    0.9
37 07/08/2009 08:12   0.7    0.8    0.9
38 07/08/2009 08:13   0.7    0.8    0.9
39 07/08/2009 08:14   0.7    0.7    0.8
40 07/08/2009 08:15   0.6    0.6    0.8
41 07/08/2009 08:16   0.6    0.6    0.7
```

42	07/08/2009 08:17	0.6	0.6	0.7
43	07/08/2009 08:18	0.6	0.6	0.8
44	07/08/2009 08:19	0.5	0.6	0.8
45	07/08/2009 08:20	0.5	0.5	0.7
46	07/08/2009 08:21	0.4	0.5	0.8
47	07/08/2009 08:22	0.5	0.5	0.7
48	07/08/2009 08:23	0.4	0.5	0.7
49	07/08/2009 08:24	0.3	0.3	0.5
50	07/08/2009 08:25	0.2	0.2	0.3
51	07/08/2009 08:26	0.2	0.2	0.4
52	07/08/2009 08:27	0.2	0.3	0.4
53	07/08/2009 08:28	0.2	0.2	0.4
54	07/08/2009 08:29	0.1	0.2	0.3
55	07/08/2009 08:30	0.1	0.1	0.2
56	07/08/2009 08:31	0.1	0.1	0.2
57	07/08/2009 08:32	0.0	0.0	0.1
58	07/08/2009 08:33	0.0	0.1	0.2
59	07/08/2009 08:34	0.0	0.0	0.2
60	07/08/2009 08:35	0.0	0.0	0.2
61	07/08/2009 08:36	0.0	0.0	0.1
62	07/08/2009 08:37	0.0	0.0	0.0
63	07/08/2009 08:38	0.0	0.0	0.0
64	07/08/2009 08:39	0.0	0.0	0.0
65	07/08/2009 08:40	0.0	0.0	0.0
66	07/08/2009 08:41	0.0	0.0	0.0
67	07/08/2009 08:42	0.0	0.0	0.0
68	07/08/2009 08:43	0.0	0.0	0.0
69	07/08/2009 08:44	0.0	0.0	0.0
70	07/08/2009 08:45	0.0	0.0	0.0
71	07/08/2009 08:46	0.0	0.0	0.0
72	07/08/2009 08:47	0.0	0.0	0.0
73	07/08/2009 08:48	0.0	0.0	0.0
74	07/08/2009 08:49	0.0	0.0	0.0
75	07/08/2009 08:50	0.0	0.0	0.0
76	07/08/2009 08:51	0.0	0.0	0.0
77	07/08/2009 08:52	0.0	0.0	0.0
78	07/08/2009 08:53	0.0	0.0	0.0
79	07/08/2009 08:54	0.0	0.0	0.0
80	07/08/2009 08:55	0.0	0.0	0.0
81	07/08/2009 08:56	0.0	0.0	0.0
82	07/08/2009 08:57	0.0	0.0	0.0
83	07/08/2009 08:58	0.0	0.0	0.0
84	07/08/2009 08:59	0.0	0.0	0.0
85	07/08/2009 09:00	0.0	0.0	0.0
86	07/08/2009 09:01	0.0	0.0	0.0
87	07/08/2009 09:02	0.0	0.0	0.0
88	07/08/2009 09:03	0.0	0.0	0.0
89	07/08/2009 09:04	0.0	0.0	0.0
90	07/08/2009 09:05	0.0	0.0	0.0
91	07/08/2009 09:06	0.0	0.0	0.0
92	07/08/2009 09:07	0.0	0.0	0.0
93	07/08/2009 09:08	0.0	0.0	0.0

94	07/08/2009 09:09	0.0	0.0	0.0
95	07/08/2009 09:10	0.0	0.0	0.0
96	07/08/2009 09:11	0.0	0.0	0.0
97	07/08/2009 09:12	0.0	0.0	0.0
98	07/08/2009 09:13	0.0	0.0	0.0
99	07/08/2009 09:14	0.0	0.0	0.0
100	07/08/2009 09:15	0.0	0.0	0.0
101	07/08/2009 09:16	0.0	0.0	0.0
102	07/08/2009 09:17	0.0	0.0	0.0
103	07/08/2009 09:18	0.0	0.0	0.0
104	07/08/2009 09:19	0.0	0.0	0.0
105	07/08/2009 09:20	0.0	0.0	0.0
106	07/08/2009 09:21	0.0	0.0	0.0
107	07/08/2009 09:22	0.0	0.0	0.0
108	07/08/2009 09:23	0.0	0.0	0.0
109	07/08/2009 09:24	0.0	0.0	0.0
110	07/08/2009 09:25	0.0	0.0	0.0
111	07/08/2009 09:26	0.0	0.0	0.0
112	07/08/2009 09:27	0.0	0.0	0.0
113	07/08/2009 09:28	0.0	0.0	0.0
114	07/08/2009 09:29	0.0	0.0	0.0
115	07/08/2009 09:30	0.0	0.0	0.0
116	07/08/2009 09:31	0.0	0.0	0.0
117	07/08/2009 09:32	0.0	0.0	0.0
118	07/08/2009 09:33	0.0	0.0	0.0
119	07/08/2009 09:34	0.0	0.0	0.0
120	07/08/2009 09:35	0.0	0.0	0.0
121	07/08/2009 09:36	0.0	0.0	0.0
122	07/08/2009 09:37	0.0	0.0	0.0
123	07/08/2009 09:38	0.0	0.0	0.0
124	07/08/2009 09:39	0.0	0.0	0.0
125	07/08/2009 09:40	0.0	0.0	0.0
126	07/08/2009 09:41	0.0	0.0	0.0
127	07/08/2009 09:42	0.0	0.0	0.0
128	07/08/2009 09:43	0.0	0.0	0.0
129	07/08/2009 09:44	0.0	0.0	0.0
130	07/08/2009 09:45	0.0	0.0	0.0
131	07/08/2009 09:46	0.0	0.0	0.0
132	07/08/2009 09:47	0.0	0.0	0.0
133	07/08/2009 09:48	0.0	0.0	0.0
134	07/08/2009 09:49	0.0	0.0	0.0
135	07/08/2009 09:50	0.0	0.0	0.0
136	07/08/2009 09:51	0.0	0.0	0.0
137	07/08/2009 09:52	0.0	0.0	0.0
138	07/08/2009 09:53	0.0	0.0	0.0
139	07/08/2009 09:54	0.0	0.0	0.0
140	07/08/2009 09:55	0.0	0.0	0.0
141	07/08/2009 09:56	0.0	0.0	0.0
142	07/08/2009 09:57	0.0	0.0	0.0
143	07/08/2009 09:58	0.0	0.0	0.0
144	07/08/2009 09:59	0.0	0.0	0.0
145	07/08/2009 10:00	0.0	0.0	0.0



146	07/08/2009 10:01	0.0	0.0	0.0
147	07/08/2009 10:02	0.0	0.0	0.0
148	07/08/2009 10:03	0.0	0.0	0.0
149	07/08/2009 10:04	0.0	0.0	0.0
150	07/08/2009 10:05	0.0	0.0	0.0
151	07/08/2009 10:06	0.0	0.0	0.0
152	07/08/2009 10:07	0.0	0.0	0.0
153	07/08/2009 10:08	0.0	0.0	0.0
154	07/08/2009 10:09	0.0	0.0	0.0
155	07/08/2009 10:10	0.0	0.0	0.0
156	07/08/2009 10:11	0.0	0.0	0.0
157	07/08/2009 10:12	0.0	0.0	0.0
158	07/08/2009 10:13	0.0	0.0	0.0
159	07/08/2009 10:14	0.0	0.0	0.0
160	07/08/2009 10:15	0.0	0.0	0.0
161	07/08/2009 10:16	0.0	0.0	0.0
162	07/08/2009 10:17	0.0	0.0	0.0
163	07/08/2009 10:18	0.0	0.0	0.0
164	07/08/2009 10:19	0.0	0.0	0.0
165	07/08/2009 10:20	0.0	0.0	0.0
166	07/08/2009 10:21	0.0	0.0	0.0
167	07/08/2009 10:22	0.0	0.0	0.0
168	07/08/2009 10:23	0.0	0.0	0.0
169	07/08/2009 10:24	0.0	0.0	0.0
170	07/08/2009 10:25	0.0	0.0	0.0
171	07/08/2009 10:26	0.0	0.0	0.0
172	07/08/2009 10:27	0.0	0.0	0.0
173	07/08/2009 10:28	0.0	0.0	0.0
174	07/08/2009 10:29	0.0	0.0	0.0
175	07/08/2009 10:30	0.0	0.0	0.0
176	07/08/2009 10:31	0.0	0.0	0.0
177	07/08/2009 10:32	0.0	0.0	0.0
178	07/08/2009 10:33	0.0	0.0	0.0
179	07/08/2009 10:34	0.0	0.0	0.0
180	07/08/2009 10:35	0.0	0.0	0.0
181	07/08/2009 10:36	0.0	0.0	0.0
182	07/08/2009 10:37	0.0	0.0	0.0
183	07/08/2009 10:38	0.0	0.0	0.0
184	07/08/2009 10:39	0.0	0.0	0.0
185	07/08/2009 10:40	0.0	0.0	0.1
186	07/08/2009 10:41	0.0	0.0	0.2
187	07/08/2009 10:42	0.0	0.1	0.2
188	07/08/2009 10:43	0.1	0.2	0.3
189	07/08/2009 10:44	0.1	0.2	0.3
190	07/08/2009 10:45	0.1	0.2	0.3
191	07/08/2009 10:46	0.2	0.2	0.4
192	07/08/2009 10:47	0.2	0.2	0.4
193	07/08/2009 10:48	0.3	0.4	0.5
194	07/08/2009 10:49	0.4	0.5	0.8
195	07/08/2009 10:50	0.3	0.4	0.7
196	07/08/2009 10:51	0.1	0.3	0.7
197	07/08/2009 10:52	0.2	0.3	0.5

198	07/08/2009 10:53	0.3	0.4	0.5
199	07/08/2009 10:54	0.4	0.4	0.6
200	07/08/2009 10:55	0.4	0.5	0.6
201	07/08/2009 10:56	0.4	0.5	0.6
202	07/08/2009 10:57	0.4	0.4	0.5
203	07/08/2009 10:58	0.3	0.4	0.5
204	07/08/2009 10:59	0.3	0.3	0.5
205	07/08/2009 11:00	0.3	0.3	0.4
206	07/08/2009 11:01	0.3	0.3	0.4
207	07/08/2009 11:02	0.3	0.3	0.5
208	07/08/2009 11:03	0.2	0.2	0.4
209	07/08/2009 11:04	0.2	0.2	0.3
210	07/08/2009 11:05	0.2	0.2	0.4
211	07/08/2009 11:06	0.3	0.3	0.4
212	07/08/2009 11:07	0.3	0.3	0.4
213	07/08/2009 11:08	0.3	0.3	0.4
214	07/08/2009 11:09	0.1	0.2	0.3
215	07/08/2009 11:10	0.0	0.0	0.1
216	07/08/2009 11:11	0.0	0.0	0.0
217	07/08/2009 11:12	0.0	0.0	0.0
218	07/08/2009 11:13	0.0	0.0	0.0
219	07/08/2009 11:14	0.0	0.0	0.0
220	07/08/2009 11:15	0.0	0.0	0.0
221	07/08/2009 11:16	0.0	0.0	0.0
222	07/08/2009 11:17	0.0	0.0	0.0
223	07/08/2009 11:18	0.0	0.0	0.0
224	07/08/2009 11:19	0.0	0.0	0.0
225	07/08/2009 11:20	0.0	0.0	0.0
226	07/08/2009 11:21	0.0	0.0	0.0
227	07/08/2009 11:22	0.0	0.0	0.0
228	07/08/2009 11:23	0.0	0.0	0.0
229	07/08/2009 11:24	0.0	0.0	0.0
230	07/08/2009 11:25	0.0	0.0	0.0
231	07/08/2009 11:26	0.0	0.0	0.0
232	07/08/2009 11:27	0.0	0.0	0.0
233	07/08/2009 11:28	0.0	0.0	0.0
234	07/08/2009 11:29	0.0	0.0	0.0
235	07/08/2009 11:30	0.0	0.0	0.0
236	07/08/2009 11:31	0.0	0.0	0.0
237	07/08/2009 11:32	0.0	0.0	0.0
238	07/08/2009 11:33	0.0	0.0	0.0
239	07/08/2009 11:34	0.0	0.0	0.0
240	07/08/2009 11:35	0.0	0.0	0.0
241	07/08/2009 11:36	0.0	0.0	0.0
242	07/08/2009 11:37	0.0	0.0	0.0
243	07/08/2009 11:38	0.0	0.0	0.0
244	07/08/2009 11:39	0.0	0.0	0.0
245	07/08/2009 11:40	0.0	0.0	0.0
246	07/08/2009 11:41	0.0	0.0	0.0
247	07/08/2009 11:42	0.0	0.0	0.0
248	07/08/2009 11:43	0.0	0.0	0.0
249	07/08/2009 11:44	0.0	0.0	0.1

250	07/08/2009 11:45	0.0	0.0	0.0
251	07/08/2009 11:46	0.0	0.0	0.2
252	07/08/2009 11:47	0.0	0.0	0.1
253	07/08/2009 11:48	0.0	0.0	0.1
254	07/08/2009 11:49	0.0	0.0	0.1
255	07/08/2009 11:50	0.0	0.0	0.1
256	07/08/2009 11:51	0.1	0.1	0.1
257	07/08/2009 11:52	0.0	0.0	0.1
258	07/08/2009 11:53	0.0	0.0	0.1
259	07/08/2009 11:54	0.1	0.1	0.2
260	07/08/2009 11:55	0.0	0.2	0.5
261	07/08/2009 11:56	0.2	0.4	0.6
262	07/08/2009 11:57	0.2	0.4	0.7
263	07/08/2009 11:58	0.3	0.4	0.8
264	07/08/2009 11:59	0.3	0.4	0.7
265	07/08/2009 12:00	0.1	0.3	0.5
266	07/08/2009 12:01	0.1	0.1	0.4
267	07/08/2009 12:02	0.1	0.2	0.5
268	07/08/2009 12:03	0.1	0.2	0.5
269	07/08/2009 12:04	0.1	0.2	0.6
270	07/08/2009 12:05	0.1	0.2	0.4
271	07/08/2009 12:06	0.0	0.0	0.2
272	07/08/2009 12:07	0.0	0.0	0.0
273	07/08/2009 12:08	0.0	0.0	0.1
274	07/08/2009 12:09	0.0	0.0	0.0
275	07/08/2009 12:10	0.0	0.0	0.0
276	07/08/2009 12:11	0.0	0.0	0.0
277	07/08/2009 12:12	0.0	0.0	0.0
278	07/08/2009 12:13	0.0	0.0	0.0
279	07/08/2009 12:14	0.0	0.0	0.0
280	07/08/2009 12:15	0.0	0.0	0.0
281	07/08/2009 12:16	0.0	0.0	0.0
282	07/08/2009 12:17	0.0	0.0	0.0
283	07/08/2009 12:18	0.0	0.0	0.0
284	07/08/2009 12:19	0.0	0.0	0.0
285	07/08/2009 12:20	0.0	0.0	0.0
286	07/08/2009 12:21	0.0	0.0	0.0
287	07/08/2009 12:22	0.0	0.0	0.0
288	07/08/2009 12:23	0.0	0.0	0.0
289	07/08/2009 12:24	0.0	0.0	0.0
290	07/08/2009 12:25	0.0	0.0	0.0
291	07/08/2009 12:26	0.0	0.0	0.0
292	07/08/2009 12:27	0.0	0.0	0.0
293	07/08/2009 12:28	0.0	0.0	0.0
294	07/08/2009 12:29	0.0	0.0	0.0
295	07/08/2009 12:30	0.0	0.0	0.0
296	07/08/2009 12:31	0.0	0.0	0.0
297	07/08/2009 12:32	0.0	0.0	0.0
298	07/08/2009 12:33	0.0	0.0	0.0
299	07/08/2009 12:34	0.0	0.0	0.0
300	07/08/2009 12:35	0.0	0.0	0.0
301	07/08/2009 12:36	0.0	0.0	0.0

302	07/08/2009 12:37	0.0	0.0	0.0
303	07/08/2009 12:38	0.0	0.0	0.0
304	07/08/2009 12:39	0.0	0.0	0.0
305	07/08/2009 12:40	0.0	0.0	0.0
306	07/08/2009 12:41	0.0	0.0	0.0
307	07/08/2009 12:42	0.0	0.0	0.0
308	07/08/2009 12:43	0.0	0.0	0.0
309	07/08/2009 12:44	0.0	0.0	0.0
310	07/08/2009 12:45	0.0	0.0	0.0
311	07/08/2009 12:46	0.0	0.0	0.0
312	07/08/2009 12:47	0.0	0.0	0.0
313	07/08/2009 12:48	0.0	0.0	0.0
314	07/08/2009 12:49	0.0	0.0	0.0
315	07/08/2009 12:50	0.0	0.0	0.0
316	07/08/2009 12:51	0.0	0.0	0.0
317	07/08/2009 12:52	0.0	0.0	0.0
318	07/08/2009 12:53	0.0	0.0	0.0
319	07/08/2009 12:54	0.0	0.0	0.0
320	07/08/2009 12:55	0.0	0.0	0.0
321	07/08/2009 12:56	0.0	0.0	0.0
322	07/08/2009 12:57	0.0	0.0	0.0
323	07/08/2009 12:58	0.0	0.0	0.0
324	07/08/2009 12:59	0.0	0.0	0.0
325	07/08/2009 13:00	0.0	0.0	0.0
326	07/08/2009 13:01	0.0	0.0	0.0
327	07/08/2009 13:02	0.0	0.0	0.0
328	07/08/2009 13:03	0.0	0.0	0.0
329	07/08/2009 13:04	0.0	0.0	0.0
330	07/08/2009 13:05	0.0	0.0	0.0
331	07/08/2009 13:06	0.0	0.0	0.0
332	07/08/2009 13:07	0.0	0.0	0.0
333	07/08/2009 13:08	0.0	0.0	0.0
334	07/08/2009 13:09	0.0	0.0	0.0
335	07/08/2009 13:10	0.0	0.0	0.0
336	07/08/2009 13:11	0.0	0.0	0.0
337	07/08/2009 13:12	0.0	0.0	0.0
338	07/08/2009 13:13	0.0	0.0	0.0
339	07/08/2009 13:14	0.0	0.0	0.0
340	07/08/2009 13:15	0.0	0.0	0.0
341	07/08/2009 13:16	0.0	0.0	0.0
342	07/08/2009 13:17	0.0	0.0	0.0
343	07/08/2009 13:18	0.0	0.0	0.0
344	07/08/2009 13:19	0.0	0.0	0.0
345	07/08/2009 13:20	0.0	0.0	0.0
346	07/08/2009 13:21	0.0	0.0	0.0
347	07/08/2009 13:22	0.0	0.0	0.0
348	07/08/2009 13:23	0.0	0.0	0.0
349	07/08/2009 13:24	0.0	0.0	0.0
350	07/08/2009 13:25	0.0	0.0	0.0
351	07/08/2009 13:26	0.0	0.0	0.0
352	07/08/2009 13:27	0.0	0.0	0.0
353	07/08/2009 13:28	0.0	0.0	0.0

354	07/08/2009 13:29	0.0	0.0	0.0
355	07/08/2009 13:30	0.0	0.0	0.0
356	07/08/2009 13:31	0.0	0.0	0.0
357	07/08/2009 13:32	0.0	0.0	0.0
358	07/08/2009 13:33	0.0	0.0	0.0
359	07/08/2009 13:34	0.0	0.0	0.0
360	07/08/2009 13:35	0.0	0.0	0.0
361	07/08/2009 13:36	0.0	0.0	0.0
362	07/08/2009 13:37	0.0	0.0	0.0
363	07/08/2009 13:38	0.0	0.0	0.0
364	07/08/2009 13:39	0.0	0.0	0.0
365	07/08/2009 13:40	0.0	0.0	0.0
366	07/08/2009 13:41	0.0	0.0	0.0
367	07/08/2009 13:42	0.0	0.0	0.0
368	07/08/2009 13:43	0.0	0.0	0.0
369	07/08/2009 13:44	0.0	0.0	0.0
370	07/08/2009 13:45	0.0	0.0	0.0
371	07/08/2009 13:46	0.0	0.0	0.0
372	07/08/2009 13:47	0.0	0.0	0.0
373	07/08/2009 13:48	0.0	0.0	0.0
374	07/08/2009 13:49	0.0	0.0	0.0
375	07/08/2009 13:50	0.0	0.0	0.0
376	07/08/2009 13:51	0.0	0.0	0.0
377	07/08/2009 13:52	0.0	0.0	0.0
378	07/08/2009 13:53	0.0	0.0	0.0
379	07/08/2009 13:54	0.0	0.0	0.0
380	07/08/2009 13:55	0.0	0.0	0.0
381	07/08/2009 13:56	0.0	0.0	0.0
382	07/08/2009 13:57	0.0	0.0	0.0
383	07/08/2009 13:58	0.0	0.0	0.0
384	07/08/2009 13:59	0.0	0.0	0.0
385	07/08/2009 14:00	0.0	0.0	0.0
386	07/08/2009 14:01	0.0	0.0	0.0
387	07/08/2009 14:02	0.0	0.0	0.0
388	07/08/2009 14:03	0.0	0.0	0.0
389	07/08/2009 14:04	0.0	0.0	0.0
390	07/08/2009 14:05	0.0	0.0	0.0
391	07/08/2009 14:06	0.0	0.0	0.0
392	07/08/2009 14:07	0.0	0.0	0.0
393	07/08/2009 14:08	0.0	0.0	0.0
394	07/08/2009 14:09	0.0	0.0	0.0
395	07/08/2009 14:10	0.0	0.0	0.0
396	07/08/2009 14:11	0.0	0.0	0.0
397	07/08/2009 14:12	0.0	0.0	0.0
398	07/08/2009 14:13	0.0	0.0	0.0
399	07/08/2009 14:14	0.0	0.0	0.0
400	07/08/2009 14:15	0.0	0.0	0.0
401	07/08/2009 14:16	0.0	0.0	0.0
402	07/08/2009 14:17	0.0	0.0	0.0
403	07/08/2009 14:18	0.0	0.0	0.0
404	07/08/2009 14:19	0.0	0.0	0.0
405	07/08/2009 14:20	0.0	0.0	0.0

406	07/08/2009 14:21	0.0	0.0	0.0
407	07/08/2009 14:22	0.0	0.0	0.0
408	07/08/2009 14:23	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013459  
User ID: 00000001 Site ID: Spot Ck2  
Data Points: 396 Gas Name: Isobutylene Sample Period: 60 sec  
Last Calibration Time: 06/18/2009 14:19

```
=====
Measurement Type:      Min(ppm)      Avg(ppm)      Max(ppm)
High Alarm Levels:     25.0      25.0      25.0
Low Alarm Levels:      5.0      5.0      5.0
=====
```

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

```
1 07/08/2009 07:58      0.0      0.0      0.0
2 07/08/2009 07:59      0.0      0.0      0.0
3 07/08/2009 08:00      0.0      0.0      0.0
4 07/08/2009 08:01      0.0      0.0      0.0
5 07/08/2009 08:02      0.0      0.0      0.0
6 07/08/2009 08:03      0.0      0.0      0.0
7 07/08/2009 08:04      0.0      0.0      0.0
8 07/08/2009 08:05      0.0      0.0      0.0
9 07/08/2009 08:06      0.0      0.0      0.0
10 07/08/2009 08:07      0.0      0.0      0.0
11 07/08/2009 08:08      0.0      0.0      0.0
12 07/08/2009 08:09      0.0      0.0      0.0
13 07/08/2009 08:10      0.0      0.0      0.0
14 07/08/2009 08:11      0.0      0.0      0.0
15 07/08/2009 08:12      0.0      0.0      0.0
16 07/08/2009 08:13      0.0      0.0      0.0
17 07/08/2009 08:14      0.0      0.0      0.0
18 07/08/2009 08:15      0.0      0.0      0.0
19 07/08/2009 08:16      0.0      0.0      0.0
20 07/08/2009 08:17      0.0      0.0      0.0
21 07/08/2009 08:18      0.0      0.0      0.0
22 07/08/2009 08:19      0.0      0.0      0.0
23 07/08/2009 08:20      0.0      0.0      0.0
24 07/08/2009 08:21      0.0      0.0      0.0
25 07/08/2009 08:22      0.0      0.0      0.0
26 07/08/2009 08:23      0.0      0.0      0.0
27 07/08/2009 08:24      0.0      0.0      0.0
28 07/08/2009 08:25      0.0      0.0      0.0
29 07/08/2009 08:26      0.0      0.0      0.0
30 07/08/2009 08:27      0.0      0.0      0.0
31 07/08/2009 08:28      0.0      0.0      0.0
32 07/08/2009 08:29      0.0      0.0      0.0
33 07/08/2009 08:30      0.0      0.0      0.0
34 07/08/2009 08:31      0.0      0.0      0.0
35 07/08/2009 08:32      0.0      0.0      0.9
36 07/08/2009 08:33      0.0      0.0      0.0
37 07/08/2009 08:34      0.0      0.0      0.0
38 07/08/2009 08:35      0.0      0.7     14.9L
39 07/08/2009 08:36      0.0      0.0      1.2
40 07/08/2009 08:37      0.0      0.0      0.0
41 07/08/2009 08:38      0.0      0.0      0.2
```

42	07/08/2009 08:39	0.0	0.0	0.0
43	07/08/2009 08:40	0.0	0.0	0.0
44	07/08/2009 08:41	0.0	0.0	0.0
45	07/08/2009 08:42	0.0	0.0	0.0
46	07/08/2009 08:43	0.0	0.0	0.0
47	07/08/2009 08:44	0.0	0.0	0.0
48	07/08/2009 08:45	0.0	0.0	0.0
49	07/08/2009 08:46	0.0	0.0	0.0
50	07/08/2009 08:47	0.0	0.0	0.0
51	07/08/2009 08:48	0.0	0.0	0.0
52	07/08/2009 08:49	0.0	0.0	0.0
53	07/08/2009 08:50	0.0	0.0	0.0
54	07/08/2009 08:51	0.0	0.0	0.0
55	07/08/2009 08:52	0.0	0.0	0.0
56	07/08/2009 08:53	0.0	0.0	0.0
57	07/08/2009 08:54	0.0	0.0	0.0
58	07/08/2009 08:55	0.0	0.0	0.0
59	07/08/2009 08:56	0.0	0.0	0.0
60	07/08/2009 08:57	0.0	0.0	0.0
61	07/08/2009 08:58	0.0	0.0	0.0
62	07/08/2009 08:59	0.0	0.0	0.0
63	07/08/2009 09:00	0.0	0.0	0.0
64	07/08/2009 09:01	0.0	0.0	0.0
65	07/08/2009 09:02	0.0	0.0	0.2
66	07/08/2009 09:03	0.0	0.0	0.0
67	07/08/2009 09:04	0.0	0.0	0.0
68	07/08/2009 09:05	0.0	0.0	0.3
69	07/08/2009 09:06	0.0	0.0	0.0
70	07/08/2009 09:07	0.0	0.0	0.0
71	07/08/2009 09:08	0.0	0.0	0.0
72	07/08/2009 09:09	0.0	0.0	0.0
73	07/08/2009 09:10	0.0	0.0	0.0
74	07/08/2009 09:11	0.0	0.0	0.0
75	07/08/2009 09:12	0.0	0.0	0.0
76	07/08/2009 09:13	0.0	0.0	0.0
77	07/08/2009 09:14	0.0	0.0	0.0
78	07/08/2009 09:15	0.0	0.0	0.0
79	07/08/2009 09:16	0.0	0.0	0.0
80	07/08/2009 09:17	0.0	0.0	0.0
81	07/08/2009 09:18	0.0	0.0	0.0
82	07/08/2009 09:19	0.0	0.0	0.0
83	07/08/2009 09:20	0.0	0.0	0.0
84	07/08/2009 09:21	0.0	0.0	0.0
85	07/08/2009 09:22	0.0	0.0	0.0
86	07/08/2009 09:23	0.0	0.0	0.0
87	07/08/2009 09:24	0.0	0.0	0.0
88	07/08/2009 09:25	0.0	0.0	0.0
89	07/08/2009 09:26	0.0	0.0	0.0
90	07/08/2009 09:27	0.0	0.0	0.0
91	07/08/2009 09:28	0.0	0.0	0.0
92	07/08/2009 09:29	0.0	0.0	0.0
93	07/08/2009 09:30	0.0	0.0	0.0



94	07/08/2009 09:31	0.0	0.0	0.0
95	07/08/2009 09:32	0.0	0.0	0.0
96	07/08/2009 09:33	0.0	0.0	0.0
97	07/08/2009 09:34	0.0	0.0	0.0
98	07/08/2009 09:35	0.0	0.0	0.0
99	07/08/2009 09:36	0.0	0.0	0.0
100	07/08/2009 09:37	0.0	0.0	0.0
101	07/08/2009 09:38	0.0	0.0	0.0
102	07/08/2009 09:39	0.0	0.0	0.0
103	07/08/2009 09:40	0.0	0.0	0.0
104	07/08/2009 09:41	0.0	0.0	0.0
105	07/08/2009 09:42	0.0	0.0	0.0
106	07/08/2009 09:43	0.0	0.0	0.0
107	07/08/2009 09:44	0.0	0.0	0.0
108	07/08/2009 09:45	0.0	0.0	0.0
109	07/08/2009 09:46	0.0	0.0	0.0
110	07/08/2009 09:47	0.0	0.0	0.0
111	07/08/2009 09:48	0.0	0.0	0.0
112	07/08/2009 09:49	0.0	0.0	0.0
113	07/08/2009 09:50	0.0	0.0	0.0
114	07/08/2009 09:51	0.0	0.0	0.0
115	07/08/2009 09:52	0.0	0.0	0.0
116	07/08/2009 09:53	0.0	0.0	0.0
117	07/08/2009 09:54	0.0	0.0	0.0
118	07/08/2009 09:55	0.0	0.0	0.0
119	07/08/2009 09:56	0.0	0.0	0.0
120	07/08/2009 09:57	0.0	0.0	0.0
121	07/08/2009 09:58	0.0	0.0	0.0
122	07/08/2009 09:59	0.0	0.0	0.0
123	07/08/2009 10:00	0.0	0.0	0.0
124	07/08/2009 10:01	0.0	0.0	0.0
125	07/08/2009 10:02	0.0	0.0	0.0
126	07/08/2009 10:03	0.0	0.0	0.0
127	07/08/2009 10:04	0.0	0.0	0.0
128	07/08/2009 10:05	0.0	0.0	0.0
129	07/08/2009 10:06	0.0	0.0	0.0
130	07/08/2009 10:07	0.0	0.0	0.0
131	07/08/2009 10:08	0.0	0.0	0.0
132	07/08/2009 10:09	0.0	0.0	0.1
133	07/08/2009 10:10	0.0	0.0	0.1
134	07/08/2009 10:11	0.0	0.0	0.0
135	07/08/2009 10:12	0.0	0.0	0.0
136	07/08/2009 10:13	0.0	0.0	0.1
137	07/08/2009 10:14	0.0	0.0	0.0
138	07/08/2009 10:15	0.0	0.0	0.1
139	07/08/2009 10:16	0.0	0.0	0.1
140	07/08/2009 10:17	0.0	0.0	0.1
141	07/08/2009 10:18	0.0	0.0	0.1
142	07/08/2009 10:19	0.0	0.0	0.1
143	07/08/2009 10:20	0.0	0.0	0.1
144	07/08/2009 10:21	0.0	0.0	0.1
145	07/08/2009 10:22	0.0	0.0	0.1

146	07/08/2009 10:23	0.0	0.0	0.1
147	07/08/2009 10:24	0.0	0.0	0.1
148	07/08/2009 10:25	0.0	0.0	0.1
149	07/08/2009 10:26	0.0	0.0	0.1
150	07/08/2009 10:27	0.0	0.0	0.1
151	07/08/2009 10:28	0.0	0.0	0.1
152	07/08/2009 10:29	0.0	0.0	0.1
153	07/08/2009 10:30	0.0	0.0	0.1
154	07/08/2009 10:31	0.0	0.0	0.1
155	07/08/2009 10:32	0.0	0.0	0.1
156	07/08/2009 10:33	0.0	0.0	0.2
157	07/08/2009 10:34	0.0	0.0	0.1
158	07/08/2009 10:35	0.0	0.0	0.2
159	07/08/2009 10:36	0.0	0.0	0.2
160	07/08/2009 10:37	0.0	0.0	0.2
161	07/08/2009 10:38	0.0	0.0	0.2
162	07/08/2009 10:39	0.0	0.0	0.1
163	07/08/2009 10:40	0.0	0.0	0.1
164	07/08/2009 10:41	0.0	0.0	0.1
165	07/08/2009 10:42	0.0	0.0	0.2
166	07/08/2009 10:43	0.0	0.0	0.1
167	07/08/2009 10:44	0.0	0.0	0.1
168	07/08/2009 10:45	0.0	0.0	0.1
169	07/08/2009 10:46	0.0	0.0	0.1
170	07/08/2009 10:47	0.0	0.0	0.2
171	07/08/2009 10:48	0.0	0.0	0.2
172	07/08/2009 10:49	0.0	0.1	0.2
173	07/08/2009 10:50	0.0	0.0	0.1
174	07/08/2009 10:51	0.0	0.0	0.2
175	07/08/2009 10:52	0.0	0.0	0.2
176	07/08/2009 10:53	0.0	0.1	0.2
177	07/08/2009 10:54	0.0	0.1	0.2
178	07/08/2009 10:55	0.0	0.0	0.2
179	07/08/2009 10:56	0.0	0.1	0.2
180	07/08/2009 10:57	0.1	0.1	0.2
181	07/08/2009 10:58	0.0	0.1	0.2
182	07/08/2009 10:59	0.0	0.1	0.2
183	07/08/2009 11:00	0.0	0.1	0.2
184	07/08/2009 11:01	0.0	0.1	0.2
185	07/08/2009 11:02	0.0	0.1	0.2
186	07/08/2009 11:03	0.1	0.1	0.2
187	07/08/2009 11:04	0.1	0.1	0.2
188	07/08/2009 11:05	0.0	0.1	0.2
189	07/08/2009 11:06	0.1	0.1	0.2
190	07/08/2009 11:07	0.0	0.1	0.2
191	07/08/2009 11:08	0.1	0.1	0.2
192	07/08/2009 11:09	0.0	0.1	0.2
193	07/08/2009 11:10	0.0	0.1	0.2
194	07/08/2009 11:11	0.0	0.1	0.2
195	07/08/2009 11:12	0.1	0.1	0.2
196	07/08/2009 11:13	0.0	0.1	0.2
197	07/08/2009 11:14	0.1	0.1	0.2

198	07/08/2009 11:15	0.0	0.1	0.2
199	07/08/2009 11:16	0.1	0.1	0.2
200	07/08/2009 11:17	0.1	0.1	0.2
201	07/08/2009 11:18	0.1	0.1	0.2
202	07/08/2009 11:19	0.0	0.1	0.2
203	07/08/2009 11:20	0.1	0.1	0.2
204	07/08/2009 11:21	0.1	0.1	0.2
205	07/08/2009 11:22	0.1	0.1	0.2
206	07/08/2009 11:23	0.1	0.1	0.2
207	07/08/2009 11:24	0.1	0.1	0.2
208	07/08/2009 11:25	0.1	0.1	0.2
209	07/08/2009 11:26	0.1	0.1	0.2
210	07/08/2009 11:27	0.1	0.1	0.2
211	07/08/2009 11:28	0.1	0.1	0.2
212	07/08/2009 11:29	0.1	0.1	0.2
213	07/08/2009 11:30	0.1	0.1	0.3
214	07/08/2009 11:31	0.1	0.1	0.3
215	07/08/2009 11:32	0.1	0.1	0.3
216	07/08/2009 11:33	0.1	0.1	0.3
217	07/08/2009 11:34	0.1	0.1	0.3
218	07/08/2009 11:35	0.1	0.1	0.3
219	07/08/2009 11:36	0.1	0.1	0.2
220	07/08/2009 11:37	0.1	0.1	0.3
221	07/08/2009 11:38	0.1	0.1	0.3
222	07/08/2009 11:39	0.1	0.1	0.2
223	07/08/2009 11:40	0.1	0.1	0.3
224	07/08/2009 11:41	0.1	0.2	0.3
225	07/08/2009 11:42	0.1	0.2	0.3
226	07/08/2009 11:43	0.1	0.2	0.3
227	07/08/2009 11:44	0.1	0.2	0.3
228	07/08/2009 11:45	0.1	0.2	0.3
229	07/08/2009 11:46	0.2	0.2	0.3
230	07/08/2009 11:47	0.2	0.2	0.3
231	07/08/2009 11:48	0.2	0.2	0.3
232	07/08/2009 11:49	0.2	0.2	0.3
233	07/08/2009 11:50	0.2	0.2	0.3
234	07/08/2009 11:51	0.2	0.2	0.3
235	07/08/2009 11:52	0.2	0.2	0.3
236	07/08/2009 11:53	0.1	0.2	0.3
237	07/08/2009 11:54	0.2	0.2	0.3
238	07/08/2009 11:55	0.2	0.2	0.3
239	07/08/2009 11:56	0.2	0.2	0.3
240	07/08/2009 11:57	0.2	0.2	0.3
241	07/08/2009 11:58	0.2	0.2	0.3
242	07/08/2009 11:59	0.2	0.2	0.3
243	07/08/2009 12:00	0.2	0.2	0.4
244	07/08/2009 12:01	0.2	0.2	0.3
245	07/08/2009 12:02	0.2	0.2	0.3
246	07/08/2009 12:03	0.1	0.2	0.3
247	07/08/2009 12:04	0.1	0.2	0.3
248	07/08/2009 12:05	0.1	0.2	0.4
249	07/08/2009 12:06	0.2	0.2	0.3

250	07/08/2009 12:07	0.2	0.2	0.3
251	07/08/2009 12:08	0.2	0.2	0.3
252	07/08/2009 12:09	0.1	0.2	0.3
253	07/08/2009 12:10	0.2	0.2	0.3
254	07/08/2009 12:11	0.1	0.2	0.3
255	07/08/2009 12:12	0.2	0.2	0.3
256	07/08/2009 12:13	0.2	0.2	0.3
257	07/08/2009 12:14	0.2	0.2	0.3
258	07/08/2009 12:15	0.2	0.2	0.3
259	07/08/2009 12:16	0.2	0.2	0.3
260	07/08/2009 12:17	0.2	0.2	0.4
261	07/08/2009 12:18	0.2	0.2	0.3
262	07/08/2009 12:19	0.2	0.2	0.3
263	07/08/2009 12:20	0.2	0.2	0.3
264	07/08/2009 12:21	0.2	0.2	0.5
265	07/08/2009 12:22	0.2	0.2	0.3
266	07/08/2009 12:23	0.2	0.2	0.3
267	07/08/2009 12:24	0.2	0.2	0.3
268	07/08/2009 12:25	0.2	0.2	0.4
269	07/08/2009 12:26	0.2	0.2	0.5
270	07/08/2009 12:27	0.2	0.2	0.4
271	07/08/2009 12:28	0.2	0.2	0.3
272	07/08/2009 12:29	0.2	0.2	0.3
273	07/08/2009 12:30	0.2	0.2	0.3
274	07/08/2009 12:31	0.2	0.2	0.3
275	07/08/2009 12:32	0.2	0.2	0.4
276	07/08/2009 12:33	0.2	0.2	0.3
277	07/08/2009 12:34	0.2	0.2	0.3
278	07/08/2009 12:35	0.2	0.3	0.4
279	07/08/2009 12:36	0.2	0.2	0.3
280	07/08/2009 12:37	0.2	0.2	0.4
281	07/08/2009 12:38	0.2	0.2	0.3
282	07/08/2009 12:39	0.2	0.3	0.5
283	07/08/2009 12:40	0.2	0.2	0.3
284	07/08/2009 12:41	0.2	0.2	0.3
285	07/08/2009 12:42	0.1	0.2	0.3
286	07/08/2009 12:43	0.2	0.2	0.7
287	07/08/2009 12:44	0.2	0.2	0.4
288	07/08/2009 12:45	0.2	0.2	0.3
289	07/08/2009 12:46	0.1	0.2	0.3
290	07/08/2009 12:47	0.2	0.2	0.3
291	07/08/2009 12:48	0.1	0.2	0.3
292	07/08/2009 12:49	0.1	0.2	0.4
293	07/08/2009 12:50	0.2	0.2	0.3
294	07/08/2009 12:51	0.1	0.2	0.3
295	07/08/2009 12:52	0.2	0.2	0.3
296	07/08/2009 12:53	0.1	0.1	0.3
297	07/08/2009 12:54	0.1	0.1	0.3
298	07/08/2009 12:55	0.1	0.2	0.3
299	07/08/2009 12:56	0.2	0.2	0.4
300	07/08/2009 12:57	0.2	0.2	0.3
301	07/08/2009 12:58	0.2	0.2	0.3

302	07/08/2009 12:59	0.2	0.2	0.3
303	07/08/2009 13:00	0.2	0.2	0.3
304	07/08/2009 13:01	0.1	0.2	0.3
305	07/08/2009 13:02	0.2	0.2	0.3
306	07/08/2009 13:03	0.2	0.2	0.4
307	07/08/2009 13:04	0.2	0.2	0.3
308	07/08/2009 13:05	0.2	0.2	0.3
309	07/08/2009 13:06	0.2	0.2	0.3
310	07/08/2009 13:07	0.2	0.2	0.4
311	07/08/2009 13:08	0.2	0.3	0.4
312	07/08/2009 13:09	0.2	0.3	0.6
313	07/08/2009 13:10	0.2	0.2	0.4
314	07/08/2009 13:11	0.2	0.2	0.4
315	07/08/2009 13:12	0.2	0.2	0.3
316	07/08/2009 13:13	0.2	0.2	0.3
317	07/08/2009 13:14	0.1	0.2	0.5
318	07/08/2009 13:15	0.2	0.2	0.3
319	07/08/2009 13:16	0.2	0.2	0.4
320	07/08/2009 13:17	0.2	0.2	0.4
321	07/08/2009 13:18	0.2	0.2	0.4
322	07/08/2009 13:19	0.2	0.3	0.4
323	07/08/2009 13:20	0.2	0.2	0.4
324	07/08/2009 13:21	0.2	0.2	0.3
325	07/08/2009 13:22	0.2	0.2	0.4
326	07/08/2009 13:23	0.2	0.2	0.3
327	07/08/2009 13:24	0.2	0.2	0.3
328	07/08/2009 13:25	0.2	0.2	0.4
329	07/08/2009 13:26	0.2	0.2	0.3
330	07/08/2009 13:27	0.2	0.2	0.4
331	07/08/2009 13:28	0.2	0.2	0.3
332	07/08/2009 13:29	0.1	0.2	0.4
333	07/08/2009 13:30	0.2	0.2	0.3
334	07/08/2009 13:31	0.2	0.2	0.3
335	07/08/2009 13:32	0.1	0.2	0.3
336	07/08/2009 13:33	0.1	0.2	0.3
337	07/08/2009 13:34	0.1	0.2	0.3
338	07/08/2009 13:35	0.2	0.2	0.3
339	07/08/2009 13:36	0.2	0.2	0.4
340	07/08/2009 13:37	0.1	0.2	0.3
341	07/08/2009 13:38	0.2	0.2	0.3
342	07/08/2009 13:39	0.2	0.2	0.3
343	07/08/2009 13:40	0.2	0.2	0.4
344	07/08/2009 13:41	0.1	0.2	1.0
345	07/08/2009 13:42	0.0	0.2	0.3
346	07/08/2009 13:43	0.1	0.2	0.3
347	07/08/2009 13:44	0.1	0.2	0.3
348	07/08/2009 13:45	0.1	0.2	0.3
349	07/08/2009 13:46	0.1	0.2	0.3
350	07/08/2009 13:47	0.1	0.2	0.3
351	07/08/2009 13:48	0.1	0.2	0.3
352	07/08/2009 13:49	0.1	0.2	0.3
353	07/08/2009 13:50	0.1	0.2	0.3

354	07/08/2009 13:51	0.1	0.2	0.3
355	07/08/2009 13:52	0.1	0.2	0.3
356	07/08/2009 13:53	0.1	0.2	0.3
357	07/08/2009 13:54	0.1	0.2	0.3
358	07/08/2009 13:55	0.1	0.2	0.3
359	07/08/2009 13:56	0.1	0.2	0.3
360	07/08/2009 13:57	0.1	0.2	0.3
361	07/08/2009 13:58	0.2	0.2	0.3
362	07/08/2009 13:59	0.2	0.2	0.3
363	07/08/2009 14:00	0.2	0.2	0.3
364	07/08/2009 14:01	0.1	0.2	0.3
365	07/08/2009 14:02	0.1	0.1	0.3
366	07/08/2009 14:03	0.2	0.2	0.4
367	07/08/2009 14:04	0.2	0.2	0.3
368	07/08/2009 14:05	0.2	0.2	0.3
369	07/08/2009 14:06	0.2	0.2	0.3
370	07/08/2009 14:07	0.2	0.2	0.4
371	07/08/2009 14:08	0.1	0.2	0.4
372	07/08/2009 14:09	0.2	0.2	0.4
373	07/08/2009 14:10	0.2	0.2	0.4
374	07/08/2009 14:11	0.2	0.2	0.3
375	07/08/2009 14:12	0.2	0.2	0.4
376	07/08/2009 14:13	0.2	0.3	0.4
377	07/08/2009 14:14	0.2	0.3	0.4
378	07/08/2009 14:15	0.2	0.3	0.4
379	07/08/2009 14:16	0.2	0.3	0.4
380	07/08/2009 14:17	0.2	0.3	0.4
381	07/08/2009 14:18	0.2	0.3	0.4
382	07/08/2009 14:19	0.2	0.3	0.4
383	07/08/2009 14:20	0.2	0.3	0.4
384	07/08/2009 14:21	0.2	0.3	0.4
385	07/08/2009 14:22	0.2	0.3	0.5
386	07/08/2009 14:23	0.3	0.3	0.4
387	07/08/2009 14:24	0.3	0.3	0.4
388	07/08/2009 14:25	0.3	0.3	0.4
389	07/08/2009 14:26	0.2	0.3	0.4
390	07/08/2009 14:27	0.3	0.3	0.4
391	07/08/2009 14:28	0.3	0.3	0.4
392	07/08/2009 14:29	0.2	0.3	0.4
393	07/08/2009 14:30	0.2	0.3	0.4
394	07/08/2009 14:31	0.3	0.3	0.4
395	07/08/2009 14:32	0.3	0.3	0.4
396	07/08/2009 14:33	0.3	0.3	0.4

# Test 002

station 1

Instrument		Data Properties	
Dust Trak			
Model	85200723	Start Date	6/5/2009
Meter S/N		Start Time	7:29:13
		Stop Date	6/5/2009
		Stop Time	13:14:13
		Total	
		Time	0:05:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/5/2009	7:44:13	0.013
2	6/5/2009	7:59:13	0.018
3	6/5/2009	8:14:13	0.014
4	6/5/2009	8:29:13	0.023
5	6/5/2009	8:44:13	0.014
6	6/5/2009	8:59:13	0.018
7	6/5/2009	9:14:13	0.019
8	6/5/2009	9:29:13	0.011
9	6/5/2009	9:44:13	0.011
10	6/5/2009	9:59:13	0.015
11	6/5/2009	10:14:13	0.011
12	6/5/2009	10:29:13	0.014
13	6/5/2009	10:44:13	0.02
14	6/5/2009	10:59:13	0.016
15	6/5/2009	11:14:13	0.013

16	6/5/2009	11:29:13	0.014
17	6/5/2009	11:44:13	0.017
18	6/5/2009	11:59:13	0.011
19	6/5/2009	12:14:13	0.01
20	6/5/2009	12:29:13	0.011
21	6/5/2009	12:44:13	0.01
22	6/5/2009	12:59:13	0.01
23	6/5/2009	13:14:13	0.011



# Test 001

station 2

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/5/2009
Meter S/N 23424	Start Time 7:34:34
	Stop Date 6/5/2009
	Stop Time 13:34:34
	Total
	Time 0:06:00:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/5/2009	7:49:34	0.015
2	6/5/2009	8:04:34	0.019
3	6/5/2009	8:19:34	0.022
4	6/5/2009	8:34:34	0.021
5	6/5/2009	8:49:34	0.022
6	6/5/2009	9:04:34	0.023
7	6/5/2009	9:19:34	0.02
8	6/5/2009	9:34:34	0.016
9	6/5/2009	9:49:34	0.018
10	6/5/2009	10:04:34	0.016
11	6/5/2009	10:19:34	0.017
12	6/5/2009	10:34:34	0.018
13	6/5/2009	10:49:34	0.017
14	6/5/2009	11:04:34	0.017
15	6/5/2009	11:19:34	0.017

16	6/5/2009	11:34:34	0.021
17	6/5/2009	11:49:34	0.021
18	6/5/2009	12:04:34	0.02
19	6/5/2009	12:19:34	0.017
20	6/5/2009	12:34:34	0.045
21	6/5/2009	12:49:34	0.025
22	6/5/2009	13:04:34	0.018
23	6/5/2009	13:19:34	0.036
24	6/5/2009	13:34:34	0.044

# Test 001

station 3

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	6/5/2009
Meter S/N		Start Time	7:23:17
		Stop Date	6/5/2009
		Stop Time	14:08:17
		Total	
		Time	0:06:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/5/2009	7:38:17	0.022
2	6/5/2009	7:53:17	0.016
3	6/5/2009	8:08:17	0.017
4	6/5/2009	8:23:17	0.015
5	6/5/2009	8:38:17	0.015
6	6/5/2009	8:53:17	0.015
7	6/5/2009	9:08:17	0.017
8	6/5/2009	9:23:17	0.013
9	6/5/2009	9:38:17	0.013
10	6/5/2009	9:53:17	0.021
11	6/5/2009	10:08:17	0.012
12	6/5/2009	10:23:17	0.014
13	6/5/2009	10:38:17	0.014
14	6/5/2009	10:53:17	0.012
15	6/5/2009	11:08:17	0.013

16	6/5/2009	11:23:17	0.012
17	6/5/2009	11:38:17	0.012
18	6/5/2009	11:53:17	0.014
19	6/5/2009	12:08:17	0.013
20	6/5/2009	12:23:17	0.011
21	6/5/2009	12:38:17	0.014
22	6/5/2009	12:53:17	0.013
23	6/5/2009	13:08:17	0.012
24	6/5/2009	13:23:17	0.016
25	6/5/2009	13:38:17	0.021
26	6/5/2009	13:53:17	0.013
27	6/5/2009	14:08:17	0.022

# Test 003

Instrument		Data Properties	
Dust Trak			
Model	85200723	Start Date	6/10/2009
Meter S/N		Start Time	7:23:20
		Stop Date	6/10/2009
		Stop Time	16:38:20
		Total	
		Time	0:09:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/10/2009	7:38:20	0.016
2	6/10/2009	7:53:20	0.027
3	6/10/2009	8:08:20	0.015
4	6/10/2009	8:23:20	0.025
5	6/10/2009	8:38:20	0.011
6	6/10/2009	8:53:20	0.016
7	6/10/2009	9:08:20	0.021
8	6/10/2009	9:23:20	0.013
9	6/10/2009	9:38:20	0.008
10	6/10/2009	9:53:20	0.008
11	6/10/2009	10:08:20	38.615
12	6/10/2009	10:23:20	276.238
13	6/10/2009	10:38:20	276.298
14	6/10/2009	10:53:20	276.392
15	6/10/2009	11:08:20	276.466
16	6/10/2009	11:23:20	276.515

17	6/10/2009	11:38:20	276.564
18	6/10/2009	11:53:20	276.632
19	6/10/2009	12:08:20	276.823
20	6/10/2009	12:23:20	276.913
21	6/10/2009	12:38:20	276.973
22	6/10/2009	12:53:20	277.14
23	6/10/2009	13:08:20	277.306
24	6/10/2009	13:23:20	277.476
25	6/10/2009	13:38:20	277.613
26	6/10/2009	13:53:20	277.701
27	6/10/2009	14:08:20	277.808
28	6/10/2009	14:23:20	277.977
29	6/10/2009	14:38:20	278.078
30	6/10/2009	14:53:20	278.175
31	6/10/2009	15:08:20	278.357
32	6/10/2009	15:23:20	278.451
33	6/10/2009	15:38:20	278.521
34	6/10/2009	15:53:20	278.791
35	6/10/2009	16:08:20	279.114
36	6/10/2009	16:23:20	279.311
37	6/10/2009	16:38:20	279.473

# Test 002

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/10/2009
Meter S/N 23424	Start Time 7:21:12
	Stop Date 6/10/2009
	Stop Time 16:51:12
	Total
	Time 0:09:30:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/10/2009	7:36:12	0.011
2	6/10/2009	7:51:12	0.01
3	6/10/2009	8:06:12	0.023
4	6/10/2009	8:21:12	0.008
5	6/10/2009	8:36:12	0.009
6	6/10/2009	8:51:12	0.009
7	6/10/2009	9:06:12	0.01
8	6/10/2009	9:21:12	0.01
9	6/10/2009	9:36:12	0.014
10	6/10/2009	9:51:12	0.009
11	6/10/2009	10:06:12	0.008
12	6/10/2009	10:21:12	0.013
13	6/10/2009	10:36:12	0.01
14	6/10/2009	10:51:12	0.008
15	6/10/2009	11:06:12	0.012
16	6/10/2009	11:21:12	0.012

17	6/10/2009	11:36:12	0.017
18	6/10/2009	11:51:12	0.011
19	6/10/2009	12:06:12	0.013
20	6/10/2009	12:21:12	0.013
21	6/10/2009	12:36:12	0.017
22	6/10/2009	12:51:12	0.016
23	6/10/2009	13:06:12	0.015
24	6/10/2009	13:21:12	0.015
25	6/10/2009	13:36:12	0.015
26	6/10/2009	13:51:12	0.015
27	6/10/2009	14:06:12	0.015
28	6/10/2009	14:21:12	0.017
29	6/10/2009	14:36:12	0.015
30	6/10/2009	14:51:12	0.014
31	6/10/2009	15:06:12	0.014
32	6/10/2009	15:21:12	0.016
33	6/10/2009	15:36:12	0.029
34	6/10/2009	15:51:12	0.015
35	6/10/2009	16:06:12	0.011
36	6/10/2009	16:21:12	0.011
37	6/10/2009	16:36:12	0.012
38	6/10/2009	16:51:12	0.012



# Test 002

Instrument		Data Properties	
	Dust Trak		
Model	85200737	Start Date	6/10/2009
Meter S/N		Start Time	7:18:15
		Stop Date	6/10/2009
		Stop Time	16:48:15
		Total	
		Time	0:09:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/10/2009	7:33:15	0.011
2	6/10/2009	7:48:15	0.011
3	6/10/2009	8:03:15	0.009
4	6/10/2009	8:18:15	0.008
5	6/10/2009	8:33:15	0.009
6	6/10/2009	8:48:15	0.009
7	6/10/2009	9:03:15	0.009
8	6/10/2009	9:18:15	0.009
9	6/10/2009	9:33:15	0.007
10	6/10/2009	9:48:15	0.009
11	6/10/2009	10:03:15	0.007
12	6/10/2009	10:18:15	0.007
13	6/10/2009	10:33:15	0.013
14	6/10/2009	10:48:15	0.009
15	6/10/2009	11:03:15	0.011
16	6/10/2009	11:18:15	0.007

17	6/10/2009	11:33:15	0.024
18	6/10/2009	11:48:15	0.008
19	6/10/2009	12:03:15	0.012
20	6/10/2009	12:18:15	0.011
21	6/10/2009	12:33:15	0.02
22	6/10/2009	12:48:15	0.011
23	6/10/2009	13:03:15	0.012
24	6/10/2009	13:18:15	0.012
25	6/10/2009	13:33:15	0.012
26	6/10/2009	13:48:15	0.015
27	6/10/2009	14:03:15	0.013
28	6/10/2009	14:18:15	0.013
29	6/10/2009	14:33:15	0.014
30	6/10/2009	14:48:15	0.019
31	6/10/2009	15:03:15	0.014
32	6/10/2009	15:18:15	0.015
33	6/10/2009	15:33:15	0.012
34	6/10/2009	15:48:15	0.011
35	6/10/2009	16:03:15	0.012
36	6/10/2009	16:18:15	0.01
37	6/10/2009	16:33:15	0.012
38	6/10/2009	16:48:15	0.011

# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/11/2009
Meter S/N		Start Time	7:12:28
		Stop Date	6/11/2009
		Stop Time	14:57:28
		Total	
		Time	0:07:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/11/2009	7:27:28	0.031
2	6/11/2009	7:42:28	0.033
3	6/11/2009	7:57:28	0.03
4	6/11/2009	8:12:28	0.032
5	6/11/2009	8:27:28	0.035
6	6/11/2009	8:42:28	0.037
7	6/11/2009	8:57:28	0.041
8	6/11/2009	9:12:28	0.043
9	6/11/2009	9:27:28	0.043
10	6/11/2009	9:42:28	0.043
11	6/11/2009	9:57:28	0.042
12	6/11/2009	10:12:28	0.041
13	6/11/2009	10:27:28	0.042
14	6/11/2009	10:42:28	0.041
15	6/11/2009	10:57:28	0.041
16	6/11/2009	11:12:28	0.039

17	6/11/2009	11:27:28	0.039
18	6/11/2009	11:42:28	0.039
19	6/11/2009	11:57:28	0.039
20	6/11/2009	12:12:28	0.038
21	6/11/2009	12:27:28	0.038
22	6/11/2009	12:42:28	0.038
23	6/11/2009	12:57:28	0.039
24	6/11/2009	13:12:28	0.042
25	6/11/2009	13:27:28	0.041
26	6/11/2009	13:42:28	0.037
27	6/11/2009	13:57:28	0.037
28	6/11/2009	14:12:28	0.04
29	6/11/2009	14:27:28	0.043
30	6/11/2009	14:42:28	0.034
31	6/11/2009	14:57:28	0.033

# Test 003

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/11/2009
Meter S/N 23424	Start Time 7:06:41
	Stop Date 6/11/2009
	Stop Time 15:06:41
	Total
	Time 0:08:00:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/11/2009	7:21:41	0.038
2	6/11/2009	7:36:41	0.035
3	6/11/2009	7:51:41	0.042
4	6/11/2009	8:06:41	0.042
5	6/11/2009	8:21:41	0.043
6	6/11/2009	8:36:41	0.042
7	6/11/2009	8:51:41	0.048
8	6/11/2009	9:06:41	0.042
9	6/11/2009	9:21:41	0.046
10	6/11/2009	9:36:41	0.046
11	6/11/2009	9:51:41	0.059
12	6/11/2009	10:06:41	0.059
13	6/11/2009	10:21:41	0.046
14	6/11/2009	10:36:41	0.061
15	6/11/2009	10:51:41	0.056
16	6/11/2009	11:06:41	0.047

17	6/11/2009	11:21:41	0.052
18	6/11/2009	11:36:41	0.056
19	6/11/2009	11:51:41	0.051
20	6/11/2009	12:06:41	0.062
21	6/11/2009	12:21:41	0.052
22	6/11/2009	12:36:41	0.052
23	6/11/2009	12:51:41	0.053
24	6/11/2009	13:06:41	0.05
25	6/11/2009	13:21:41	0.05
26	6/11/2009	13:36:41	0.048
27	6/11/2009	13:51:41	0.048
28	6/11/2009	14:06:41	0.047
29	6/11/2009	14:21:41	0.048
30	6/11/2009	14:36:41	0.036
31	6/11/2009	14:51:41	0.034
32	6/11/2009	15:06:41	0.037

# Test 003

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	6/11/2009
Meter S/N		Start Time	7:03:01
		Stop Date	6/11/2009
		Stop Time	15:18:01
		Total	
		Time	0:08:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/11/2009	7:18:01	0.064
2	6/11/2009	7:33:01	0.033
3	6/11/2009	7:48:01	0.032
4	6/11/2009	8:03:01	0.033
5	6/11/2009	8:18:01	0.034
6	6/11/2009	8:33:01	0.034
7	6/11/2009	8:48:01	0.037
8	6/11/2009	9:03:01	0.036
9	6/11/2009	9:18:01	0.038
10	6/11/2009	9:33:01	0.038
11	6/11/2009	9:48:01	0.041
12	6/11/2009	10:03:01	0.039
13	6/11/2009	10:18:01	0.035
14	6/11/2009	10:33:01	0.036
15	6/11/2009	10:48:01	0.049
16	6/11/2009	11:03:01	0.035

17	6/11/2009	11:18:01	0.034
18	6/11/2009	11:33:01	0.037
19	6/11/2009	11:48:01	0.037
20	6/11/2009	12:03:01	0.04
21	6/11/2009	12:18:01	0.037
22	6/11/2009	12:33:01	0.039
23	6/11/2009	12:48:01	0.037
24	6/11/2009	13:03:01	0.04
25	6/11/2009	13:18:01	0.037
26	6/11/2009	13:33:01	0.037
27	6/11/2009	13:48:01	0.034
28	6/11/2009	14:03:01	0.04
29	6/11/2009	14:18:01	0.034
30	6/11/2009	14:33:01	0.03
31	6/11/2009	14:48:01	0.03
32	6/11/2009	15:03:01	0.028
33	6/11/2009	15:18:01	0.031



# Test 002

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/12/2009
Meter S/N		Start Time	13:07:27
		Stop Date	6/12/2009
		Stop Time	15:07:27
		Total	
		Time	0:02:00:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/12/2009	13:22:27	0.017
2	6/12/2009	13:37:27	0.012
3	6/12/2009	13:52:27	0.011
4	6/12/2009	14:07:27	0.02
5	6/12/2009	14:22:27	0.018
6	6/12/2009	14:37:27	0.018
7	6/12/2009	14:52:27	0.023
8	6/12/2009	15:07:27	0.017

# Test 004

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/12/2009
Meter S/N 23424	Start Time 13:08:47
	Stop Date 6/12/2009
	Stop Time 15:08:47
	Total
	Time 0:02:00:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/12/2009	13:23:47	0.044
2	6/12/2009	13:38:47	0.018
3	6/12/2009	13:53:47	0.013
4	6/12/2009	14:08:47	0.02
5	6/12/2009	14:23:47	0.013
6	6/12/2009	14:38:47	0.018
7	6/12/2009	14:53:47	0.021
8	6/12/2009	15:08:47	0.027

# Test 004

Instrument		Data Properties	
	Dust Trak		
Model	85200737	Start Date	6/12/2009
Meter S/N		Start Time	13:05:52
		Stop Date	6/12/2009
		Stop Time	15:20:52
		Total	
		Time	0:02:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/12/2009	13:20:52	0.013
2	6/12/2009	13:35:52	0.019
3	6/12/2009	13:50:52	0.009
4	6/12/2009	14:05:52	0.012
5	6/12/2009	14:20:52	0.009
6	6/12/2009	14:35:52	0.01
7	6/12/2009	14:50:52	0.011
8	6/12/2009	15:05:52	0.013
9	6/12/2009	15:20:52	0.035

# Test 003

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/15/2009
Meter S/N		Start Time	6:52:54
		Stop Date	6/15/2009
		Stop Time	10:07:54
		Total	
		Time	0:03:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/15/2009	7:07:54	0.016
2	6/15/2009	7:22:54	0.014
3	6/15/2009	7:37:54	0.015
4	6/15/2009	7:52:54	0.019
5	6/15/2009	8:07:54	0.016
6	6/15/2009	8:22:54	0.015
7	6/15/2009	8:37:54	0.014
8	6/15/2009	8:52:54	0.012
9	6/15/2009	9:07:54	0.011
10	6/15/2009	9:22:54	0.008
11	6/15/2009	9:37:54	0.009
12	6/15/2009	9:52:54	0.014
13	6/15/2009	10:07:54	0.013

# Test 004

Instrument		Data Properties	
	Dust Trak		
Model	85200227	Start Date	6/15/2009
Meter S/N		Start Time	11:46:34
		Stop Date	6/15/2009
		Stop Time	16:46:34
		Total	
		Time	0:05:00:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/15/2009	12:01:34	0.012
2	6/15/2009	12:16:34	0.01
3	6/15/2009	12:31:34	0.01
4	6/15/2009	12:46:34	0.009
5	6/15/2009	13:01:34	0.009
6	6/15/2009	13:16:34	0.009
7	6/15/2009	13:31:34	0.009
8	6/15/2009	13:46:34	0.01
9	6/15/2009	14:01:34	0.011
10	6/15/2009	14:16:34	0.008
11	6/15/2009	14:31:34	0.01
12	6/15/2009	14:46:34	0.015
13	6/15/2009	15:01:34	0.012
14	6/15/2009	15:16:34	0.015
15	6/15/2009	15:31:34	0.013
16	6/15/2009	15:46:34	0.013

17	6/15/2009	16:01:34	0.014
18	6/15/2009	16:16:34	0.012
19	6/15/2009	16:31:34	0.035
20	6/15/2009	16:46:34	0.013

# Test 005

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/15/2009
Meter S/N 23424	Start Time 6:58:04
	Stop Date 6/15/2009
	Stop Time 16:43:04
	Total
	Time 0:09:45:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/15/2009	7:13:04	0.02
2	6/15/2009	7:28:04	0.025
3	6/15/2009	7:43:04	0.02
4	6/15/2009	7:58:04	0.021
5	6/15/2009	8:13:04	0.02
6	6/15/2009	8:28:04	0.016
7	6/15/2009	8:43:04	0.019
8	6/15/2009	8:58:04	0.013
9	6/15/2009	9:13:04	0.011
10	6/15/2009	9:28:04	0.01
11	6/15/2009	9:43:04	0.015
12	6/15/2009	9:58:04	0.014
13	6/15/2009	10:13:04	0.014
14	6/15/2009	10:28:04	0.013
15	6/15/2009	10:43:04	0.012
16	6/15/2009	10:58:04	0.01

17	6/15/2009	11:13:04	0.009
18	6/15/2009	11:28:04	0.009
19	6/15/2009	11:43:04	0.015
20	6/15/2009	11:58:04	0.012
21	6/15/2009	12:13:04	0.011
22	6/15/2009	12:28:04	0.012
23	6/15/2009	12:43:04	0.01
24	6/15/2009	12:58:04	0.015
25	6/15/2009	13:13:04	0.01
26	6/15/2009	13:28:04	0.01
27	6/15/2009	13:43:04	0.01
28	6/15/2009	13:58:04	0.024
29	6/15/2009	14:13:04	0.014
30	6/15/2009	14:28:04	0.009
31	6/15/2009	14:43:04	0.011
32	6/15/2009	14:58:04	0.011
33	6/15/2009	15:13:04	0.011
34	6/15/2009	15:28:04	0.013
35	6/15/2009	15:43:04	0.011
36	6/15/2009	15:58:04	0.01
37	6/15/2009	16:13:04	0.011
38	6/15/2009	16:28:04	0.01
39	6/15/2009	16:43:04	0.019



# Test 005

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	6/15/2009
Meter S/N		Start Time	6:54:48
		Stop Date	6/15/2009
		Stop Time	16:54:48
		Total	
		Time	0:10:00:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/15/2009	7:09:48	0.021
2	6/15/2009	7:24:48	0.019
3	6/15/2009	7:39:48	0.017
4	6/15/2009	7:54:48	0.025
5	6/15/2009	8:09:48	0.022
6	6/15/2009	8:24:48	0.016
7	6/15/2009	8:39:48	0.019
8	6/15/2009	8:54:48	0.012
9	6/15/2009	9:09:48	0.01
10	6/15/2009	9:24:48	0.009
11	6/15/2009	9:39:48	0.009
12	6/15/2009	9:54:48	0.014
13	6/15/2009	10:09:48	0.012
14	6/15/2009	10:24:48	0.011
15	6/15/2009	10:39:48	0.01
16	6/15/2009	10:54:48	0.008

17	6/15/2009	11:09:48	0.008
18	6/15/2009	11:24:48	0.008
19	6/15/2009	11:39:48	0.01
20	6/15/2009	11:54:48	0.011
21	6/15/2009	12:09:48	0.01
22	6/15/2009	12:24:48	0.01
23	6/15/2009	12:39:48	0.009
24	6/15/2009	12:54:48	0.009
25	6/15/2009	13:09:48	0.008
26	6/15/2009	13:24:48	0.01
27	6/15/2009	13:39:48	0.008
28	6/15/2009	13:54:48	0.012
29	6/15/2009	14:09:48	0.011
30	6/15/2009	14:24:48	0.007
31	6/15/2009	14:39:48	0.009
32	6/15/2009	14:54:48	0.011
33	6/15/2009	15:09:48	0.01
34	6/15/2009	15:24:48	0.01
35	6/15/2009	15:39:48	0.01
36	6/15/2009	15:54:48	0.01
37	6/15/2009	16:09:48	0.012
38	6/15/2009	16:24:48	0.012
39	6/15/2009	16:39:48	0.01
40	6/15/2009	16:54:48	0.008

# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/16/2009
Meter S/N		Start Time	6:56:59
		Stop Date	6/16/2009
		Stop Time	15:11:59
		Total	
		Time	0:08:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/16/2009	7:11:59	0.023
2	6/16/2009	7:26:59	0.022
3	6/16/2009	7:41:59	0.027
4	6/16/2009	7:56:59	0.033
5	6/16/2009	8:11:59	0.038
6	6/16/2009	8:26:59	0.04
7	6/16/2009	8:41:59	0.043
8	6/16/2009	8:56:59	0.044
9	6/16/2009	9:11:59	0.036
10	6/16/2009	9:26:59	0.028
11	6/16/2009	9:41:59	0.029
12	6/16/2009	9:56:59	0.027
13	6/16/2009	10:11:59	0.032
14	6/16/2009	10:26:59	0.03
15	6/16/2009	10:41:59	0.028
16	6/16/2009	10:56:59	0.029

17	6/16/2009	11:11:59	0.025
18	6/16/2009	11:26:59	0.021
19	6/16/2009	11:41:59	0.021
20	6/16/2009	11:56:59	0.021
21	6/16/2009	12:11:59	0.023
22	6/16/2009	12:26:59	0.022
23	6/16/2009	12:41:59	0.025
24	6/16/2009	12:56:59	0.027
25	6/16/2009	13:11:59	0.026
26	6/16/2009	13:26:59	0.026
27	6/16/2009	13:41:59	0.024
28	6/16/2009	13:56:59	0.026
29	6/16/2009	14:11:59	0.027
30	6/16/2009	14:26:59	0.027
31	6/16/2009	14:41:59	0.031
32	6/16/2009	14:56:59	0.031
33	6/16/2009	15:11:59	0.025

# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/16/2009
Meter S/N 23424	Start Time 7:01:06
	Stop Date 6/16/2009
	Stop Time 15:16:06
	Total
	Time 0:08:15:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/16/2009	7:16:06	0.025
2	6/16/2009	7:31:06	0.033
3	6/16/2009	7:46:06	0.039
4	6/16/2009	8:01:06	0.038
5	6/16/2009	8:16:06	0.04
6	6/16/2009	8:31:06	0.051
7	6/16/2009	8:46:06	0.052
8	6/16/2009	9:01:06	0.048
9	6/16/2009	9:16:06	0.04
10	6/16/2009	9:31:06	0.036
11	6/16/2009	9:46:06	0.055
12	6/16/2009	10:01:06	0.043
13	6/16/2009	10:16:06	0.043
14	6/16/2009	10:31:06	0.043
15	6/16/2009	10:46:06	0.043
16	6/16/2009	11:01:06	0.037

17	6/16/2009	11:16:06	0.037
18	6/16/2009	11:31:06	0.02
19	6/16/2009	11:46:06	0.021
20	6/16/2009	12:01:06	0.021
21	6/16/2009	12:16:06	0.028
22	6/16/2009	12:31:06	0.034
23	6/16/2009	12:46:06	0.036
24	6/16/2009	13:01:06	0.032
25	6/16/2009	13:16:06	0.031
26	6/16/2009	13:31:06	0.036
27	6/16/2009	13:46:06	0.032
28	6/16/2009	14:01:06	0.034
29	6/16/2009	14:16:06	0.036
30	6/16/2009	14:31:06	0.032
31	6/16/2009	14:46:06	0.03
32	6/16/2009	15:01:06	0.025
33	6/16/2009	15:16:06	0.02

# Test 001

Instrument		Data Properties	
	Dust Trak		
Model	85200737	Start Date	6/16/2009
Meter S/N		Start Time	7:00:34
		Stop Date	6/16/2009
		Stop Time	15:15:34
		Total	
		Time	0:08:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/16/2009	7:15:34	0.03
2	6/16/2009	7:30:34	0.031
3	6/16/2009	7:45:34	0.029
4	6/16/2009	8:00:34	0.036
5	6/16/2009	8:15:34	0.036
6	6/16/2009	8:30:34	0.038
7	6/16/2009	8:45:34	0.048
8	6/16/2009	9:00:34	0.041
9	6/16/2009	9:15:34	0.033
10	6/16/2009	9:30:34	0.028
11	6/16/2009	9:45:34	0.035
12	6/16/2009	10:00:34	0.031
13	6/16/2009	10:15:34	0.03
14	6/16/2009	10:30:34	0.028
15	6/16/2009	10:45:34	0.029
16	6/16/2009	11:00:34	0.028

17	6/16/2009	11:15:34	0.024
18	6/16/2009	11:30:34	0.019
19	6/16/2009	11:45:34	0.018
20	6/16/2009	12:00:34	0.021
21	6/16/2009	12:15:34	0.025
22	6/16/2009	12:30:34	0.04
23	6/16/2009	12:45:34	0.026
24	6/16/2009	13:00:34	0.025
25	6/16/2009	13:15:34	0.025
26	6/16/2009	13:30:34	0.029
27	6/16/2009	13:45:34	0.022
28	6/16/2009	14:00:34	0.024
29	6/16/2009	14:15:34	0.024
30	6/16/2009	14:30:34	0.022
31	6/16/2009	14:45:34	0.023
32	6/16/2009	15:00:34	0.022
33	6/16/2009	15:15:34	0.026



# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/17/2009
Meter S/N		Start Time	6:58:48
		Stop Date	6/17/2009
		Stop Time	15:28:48
		Total	
		Time	0:08:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/17/2009	7:13:48	0.028
2	6/17/2009	7:28:48	0.031
3	6/17/2009	7:43:48	0.03
4	6/17/2009	7:58:48	0.032
5	6/17/2009	8:13:48	0.036
6	6/17/2009	8:28:48	0.041
7	6/17/2009	8:43:48	0.042
8	6/17/2009	8:58:48	0.041
9	6/17/2009	9:13:48	0.041
10	6/17/2009	9:28:48	0.045
11	6/17/2009	9:43:48	0.05
12	6/17/2009	9:58:48	0.048
13	6/17/2009	10:13:48	0.047
14	6/17/2009	10:28:48	0.045
15	6/17/2009	10:43:48	0.041
16	6/17/2009	10:58:48	0.039

17	6/17/2009	11:13:48	0.036
18	6/17/2009	11:28:48	0.032
19	6/17/2009	11:43:48	0.03
20	6/17/2009	11:58:48	0.028
21	6/17/2009	12:13:48	0.026
22	6/17/2009	12:28:48	0.025
23	6/17/2009	12:43:48	0.024
24	6/17/2009	12:58:48	0.023
25	6/17/2009	13:13:48	0.023
26	6/17/2009	13:28:48	0.023
27	6/17/2009	13:43:48	0.023
28	6/17/2009	13:58:48	0.022
29	6/17/2009	14:13:48	0.023
30	6/17/2009	14:28:48	0.022
31	6/17/2009	14:43:48	0.023
32	6/17/2009	14:58:48	0.042
33	6/17/2009	15:13:48	0.029
34	6/17/2009	15:28:48	0.019

# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/17/2009
Meter S/N 23424	Start Time 7:02:08
	Stop Date 6/17/2009
	Stop Time 15:47:08
	Total
	Time 0:08:45:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/17/2009	7:17:08	0.038
2	6/17/2009	7:32:08	0.038
3	6/17/2009	7:47:08	0.039
4	6/17/2009	8:02:08	0.039
5	6/17/2009	8:17:08	0.044
6	6/17/2009	8:32:08	0.052
7	6/17/2009	8:47:08	0.051
8	6/17/2009	9:02:08	0.051
9	6/17/2009	9:17:08	0.047
10	6/17/2009	9:32:08	0.046
11	6/17/2009	9:47:08	0.058
12	6/17/2009	10:02:08	0.053
13	6/17/2009	10:17:08	0.045
14	6/17/2009	10:32:08	0.047
15	6/17/2009	10:47:08	0.055
16	6/17/2009	11:02:08	0.053

17	6/17/2009	11:17:08	0.067
18	6/17/2009	11:32:08	0.093
19	6/17/2009	11:47:08	0.086
20	6/17/2009	12:02:08	0.052
21	6/17/2009	12:17:08	0.055
22	6/17/2009	12:32:08	0.041
23	6/17/2009	12:47:08	0.049
24	6/17/2009	13:02:08	0.059
25	6/17/2009	13:17:08	0.042
26	6/17/2009	13:32:08	0.031
27	6/17/2009	13:47:08	0.032
28	6/17/2009	14:02:08	0.045
29	6/17/2009	14:17:08	0.038
30	6/17/2009	14:32:08	0.041
31	6/17/2009	14:47:08	0.03
32	6/17/2009	15:02:08	0.032
33	6/17/2009	15:17:08	0.034
34	6/17/2009	15:32:08	0.033
35	6/17/2009	15:47:08	0.029

# Test 001

Instrument		Data Properties	
	Dust Trak		
Model	85200737	Start Date	6/17/2009
Meter S/N		Start Time	7:01:13
		Stop Date	6/17/2009
		Stop Time	15:46:13
		Total	
		Time	0:08:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/17/2009	7:16:13	0.033
2	6/17/2009	7:31:13	0.031
3	6/17/2009	7:46:13	0.044
4	6/17/2009	8:01:13	0.041
5	6/17/2009	8:16:13	0.038
6	6/17/2009	8:31:13	0.041
7	6/17/2009	8:46:13	0.04
8	6/17/2009	9:01:13	0.039
9	6/17/2009	9:16:13	0.041
10	6/17/2009	9:31:13	0.044
11	6/17/2009	9:46:13	0.047
12	6/17/2009	10:01:13	0.046
13	6/17/2009	10:16:13	0.044
14	6/17/2009	10:31:13	0.041
15	6/17/2009	10:46:13	0.039
16	6/17/2009	11:01:13	0.038

17	6/17/2009	11:16:13	0.037
18	6/17/2009	11:31:13	0.037
19	6/17/2009	11:46:13	0.035
20	6/17/2009	12:01:13	0.031
21	6/17/2009	12:16:13	0.035
22	6/17/2009	12:31:13	0.026
23	6/17/2009	12:46:13	0.027
24	6/17/2009	13:01:13	0.027
25	6/17/2009	13:16:13	0.024
26	6/17/2009	13:31:13	0.022
27	6/17/2009	13:46:13	0.024
28	6/17/2009	14:01:13	0.026
29	6/17/2009	14:16:13	0.026
30	6/17/2009	14:31:13	0.022
31	6/17/2009	14:46:13	0.022
32	6/17/2009	15:01:13	0.021
33	6/17/2009	15:16:13	0.02
34	6/17/2009	15:31:13	0.019
35	6/17/2009	15:46:13	0.02

# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	6/22/2009
Meter S/N		Start Time	8:19:59
		Stop Date	6/22/2009
		Stop Time	15:49:59
		Total	
		Time	0:07:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/22/2009	8:34:59	0.012
2	6/22/2009	8:49:59	0.01
3	6/22/2009	9:04:59	0.01
4	6/22/2009	9:19:59	0.01
5	6/22/2009	9:34:59	0.01
6	6/22/2009	9:49:59	0.012
7	6/22/2009	10:04:59	0.01
8	6/22/2009	10:19:59	0.011
9	6/22/2009	10:34:59	0.01
10	6/22/2009	10:49:59	0.012
11	6/22/2009	11:04:59	0.012
12	6/22/2009	11:19:59	0.01
13	6/22/2009	11:34:59	0.009
14	6/22/2009	11:49:59	0.01
15	6/22/2009	12:04:59	0.01
16	6/22/2009	12:19:59	0.01

17	6/22/2009	12:34:59	0.01
18	6/22/2009	12:49:59	0.01
19	6/22/2009	13:04:59	0.012
20	6/22/2009	13:19:59	0.014
21	6/22/2009	13:34:59	0.014
22	6/22/2009	13:49:59	0.014
23	6/22/2009	14:04:59	0.018
24	6/22/2009	14:19:59	0.012
25	6/22/2009	14:34:59	0.013
26	6/22/2009	14:49:59	0.012
27	6/22/2009	15:04:59	0.013
28	6/22/2009	15:19:59	0.012
29	6/22/2009	15:34:59	0.02
30	6/22/2009	15:49:59	0.015



# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/22/2009
Meter S/N 23424	Start Time 8:19:19
	Stop Date 6/22/2009
	Stop Time 15:49:19
	Total
	Time 0:07:30:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/22/2009	8:34:19	0.015
2	6/22/2009	8:49:19	0.014
3	6/22/2009	9:04:19	0.019
4	6/22/2009	9:19:19	0.019
5	6/22/2009	9:34:19	0.016
6	6/22/2009	9:49:19	0.013
7	6/22/2009	10:04:19	0.01
8	6/22/2009	10:19:19	0.01
9	6/22/2009	10:34:19	0.011
10	6/22/2009	10:49:19	0.009
11	6/22/2009	11:04:19	0.009
12	6/22/2009	11:19:19	0.01
13	6/22/2009	11:34:19	0.009
14	6/22/2009	11:49:19	0.011
15	6/22/2009	12:04:19	0.008
16	6/22/2009	12:19:19	0.01

17	6/22/2009	12:34:19	0.015
18	6/22/2009	12:49:19	0.014
19	6/22/2009	13:04:19	0.025
20	6/22/2009	13:19:19	0.015
21	6/22/2009	13:34:19	0.015
22	6/22/2009	13:49:19	0.04
23	6/22/2009	14:04:19	0.04
24	6/22/2009	14:19:19	0.031
25	6/22/2009	14:34:19	0.037
26	6/22/2009	14:49:19	0.024
27	6/22/2009	15:04:19	0.032
28	6/22/2009	15:19:19	0.053
29	6/22/2009	15:34:19	0.029
30	6/22/2009	15:49:19	0.009

# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	6/22/2009
Meter S/N		Start Time	8:15:35
		Stop Date	6/22/2009
		Stop Time	15:45:35
		Total	
		Time	0:07:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/22/2009	8:30:35	0.016
2	6/22/2009	8:45:35	0.015
3	6/22/2009	9:00:35	0.012
4	6/22/2009	9:15:35	0.014
5	6/22/2009	9:30:35	0.01
6	6/22/2009	9:45:35	0.027
7	6/22/2009	10:00:35	0.009
8	6/22/2009	10:15:35	0.007
9	6/22/2009	10:30:35	0.011
10	6/22/2009	10:45:35	0.009
11	6/22/2009	11:00:35	0.007
12	6/22/2009	11:15:35	0.009
13	6/22/2009	11:30:35	0.008
14	6/22/2009	11:45:35	0.006
15	6/22/2009	12:00:35	0.007
16	6/22/2009	12:15:35	0.017

17	6/22/2009	12:30:35	0.01
18	6/22/2009	12:45:35	0.009
19	6/22/2009	13:00:35	0.012
20	6/22/2009	13:15:35	0.009
21	6/22/2009	13:30:35	0.009
22	6/22/2009	13:45:35	0.024
23	6/22/2009	14:00:35	0.01
24	6/22/2009	14:15:35	0.014
25	6/22/2009	14:30:35	0.013
26	6/22/2009	14:45:35	0.016
27	6/22/2009	15:00:35	0.012
28	6/22/2009	15:15:35	0.013
29	6/22/2009	15:30:35	0.009
30	6/22/2009	15:45:35	0.006

# Test 001

Instrument		Data Properties	
	Dust Trak		
Model	85200227	Start Date	6/23/2009
Meter S/N		Start Time	9:34:31
		Stop Date	6/23/2009
		Stop Time	14:49:31
		Total	
		Time	0:05:15:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/23/2009	9:49:31	0.017
2	6/23/2009	10:04:31	0.017
3	6/23/2009	10:19:31	0.017
4	6/23/2009	10:34:31	0.016
5	6/23/2009	10:49:31	0.016
6	6/23/2009	11:04:31	0.015
7	6/23/2009	11:19:31	0.015
8	6/23/2009	11:34:31	0.014
9	6/23/2009	11:49:31	0.015
10	6/23/2009	12:04:31	0.015
11	6/23/2009	12:19:31	0.014
12	6/23/2009	12:34:31	0.015
13	6/23/2009	12:49:31	0.016
14	6/23/2009	13:04:31	0.016
15	6/23/2009	13:19:31	0.017
16	6/23/2009	13:34:31	0.014

17	6/23/2009	13:49:31	0.017
18	6/23/2009	14:04:31	0.017
19	6/23/2009	14:19:31	0.021
20	6/23/2009	14:34:31	0.018
21	6/23/2009	14:49:31	2.212

# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 6/23/2009
Meter S/N 23424	Start Time 9:32:24
	Stop Date 6/23/2009
	Stop Time 14:32:24
	Total
	Time 0:05:00:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/23/2009	9:47:24	0.02
2	6/23/2009	10:02:24	0.021
3	6/23/2009	10:17:24	0.018
4	6/23/2009	10:32:24	0.016
5	6/23/2009	10:47:24	0.016
6	6/23/2009	11:02:24	0.014
7	6/23/2009	11:17:24	0.014
8	6/23/2009	11:32:24	0.013
9	6/23/2009	11:47:24	0.013
10	6/23/2009	12:02:24	0.013
11	6/23/2009	12:17:24	0.014
12	6/23/2009	12:32:24	0.013
13	6/23/2009	12:47:24	0.012
14	6/23/2009	13:02:24	0.011
15	6/23/2009	13:17:24	0.01
16	6/23/2009	13:32:24	0.013

17	6/23/2009	13:47:24	0.015
18	6/23/2009	14:02:24	0.016
19	6/23/2009	14:17:24	0.013
20	6/23/2009	14:32:24	0.017



# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	6/23/2009
Meter S/N		Start Time	9:31:14
		Stop Date	6/23/2009
		Stop Time	14:31:14
		Total	
		Time	0:05:00:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	6/23/2009	9:46:14	0.015
2	6/23/2009	10:01:14	0.018
3	6/23/2009	10:16:14	0.017
4	6/23/2009	10:31:14	0.016
5	6/23/2009	10:46:14	0.016
6	6/23/2009	11:01:14	0.013
7	6/23/2009	11:16:14	0.013
8	6/23/2009	11:31:14	0.016
9	6/23/2009	11:46:14	0.016
10	6/23/2009	12:01:14	0.013
11	6/23/2009	12:16:14	0.01
12	6/23/2009	12:31:14	0.012
13	6/23/2009	12:46:14	0.012
14	6/23/2009	13:01:14	0.01
15	6/23/2009	13:16:14	0.008
16	6/23/2009	13:31:14	0.008

17	6/23/2009	13:46:14	0.008
18	6/23/2009	14:01:14	0.009
19	6/23/2009	14:16:14	0.011
20	6/23/2009	14:31:14	0.013

# Test 001

Instrument		Data Properties	
Dust Trak		Start Date	7/8/2009
Model	85200227	Start Time	8:03:03
Meter S/N		Stop Date	7/8/2009
		Stop Time	10:33:03
		Total	
		Time	0:02:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	8:18:03	0.033
2	7/8/2009	8:33:03	0.023
3	7/8/2009	8:48:03	0.019
4	7/8/2009	9:03:03	0.023
5	7/8/2009	9:18:03	0.016
6	7/8/2009	9:33:03	0.013
7	7/8/2009	9:48:03	0.012
8	7/8/2009	10:03:03	0.012
9	7/8/2009	10:18:03	0.01
10	7/8/2009	10:33:03	0.011

# Test 002

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	7/8/2009
Meter S/N		Start Time	12:52:18
		Stop Date	7/8/2009
		Stop Time	14:37:18
		Total	
		Time	0:01:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	13:07:18	0.012
2	7/8/2009	13:22:18	0.02
3	7/8/2009	13:37:18	0.019
4	7/8/2009	13:52:18	0.021
5	7/8/2009	14:07:18	0.009
6	7/8/2009	14:22:18	0.007
7	7/8/2009	14:37:18	0.007

# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 7/8/2009
Meter S/N 23424	Start Time 8:01:28
	Stop Date 7/8/2009
	Stop Time 10:31:28
	Total
	Time 0:02:30:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	8:16:28	0.06
2	7/8/2009	8:31:28	0.031
3	7/8/2009	8:46:28	0.024
4	7/8/2009	9:01:28	0.029
5	7/8/2009	9:16:28	0.017
6	7/8/2009	9:31:28	0.021
7	7/8/2009	9:46:28	0.018
8	7/8/2009	10:01:28	0.016
9	7/8/2009	10:16:28	0.011
10	7/8/2009	10:31:28	0.011

# Test 002

Instrument	Data Properties
Dust Trak	
Model	Start Date 7/8/2009
Meter S/N 23424	Start Time 12:52:58
	Stop Date 7/8/2009
	Stop Time 14:37:58
	Total
	Time 0:01:45:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	13:07:58	0.011
2	7/8/2009	13:22:58	0.016
3	7/8/2009	13:37:58	0.025
4	7/8/2009	13:52:58	0.032
5	7/8/2009	14:07:58	0.023
6	7/8/2009	14:22:58	0.023
7	7/8/2009	14:37:58	0.022

# Test 001

Instrument		Data Properties	
Dust Trak		Start Date	7/8/2009
Model	85200737	Start Time	7:58:30
Meter S/N		Stop Date	7/8/2009
		Stop Time	10:28:30
		Total	
		Time	0:02:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	8:13:30	0.022
2	7/8/2009	8:28:30	0.019
3	7/8/2009	8:43:30	0.016
4	7/8/2009	8:58:30	0.012
5	7/8/2009	9:13:30	0.015
6	7/8/2009	9:28:30	0.009
7	7/8/2009	9:43:30	0.009
8	7/8/2009	9:58:30	0.009
9	7/8/2009	10:13:30	0.011
10	7/8/2009	10:28:30	0.01

# Test 002

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	7/8/2009
Meter S/N		Start Time	12:55:56
		Stop Date	7/8/2009
		Stop Time	14:40:56
		Total	
		Time	0:01:45:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/8/2009	13:10:56	0.008
2	7/8/2009	13:25:56	0.006
3	7/8/2009	13:40:56	0.013
4	7/8/2009	13:55:56	0.006
5	7/8/2009	14:10:56	0.006
6	7/8/2009	14:25:56	0.004
7	7/8/2009	14:40:56	0.005



# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200227	Start Date	7/9/2009
Meter S/N		Start Time	7:28:43
		Stop Date	7/9/2009
		Stop Time	14:58:43
		Total	
		Time	0:07:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/9/2009	7:43:43	0.013
2	7/9/2009	7:58:43	0.017
3	7/9/2009	8:13:43	0.012
4	7/9/2009	8:28:43	0.01
5	7/9/2009	8:43:43	0.009
6	7/9/2009	8:58:43	0.009
7	7/9/2009	9:13:43	0.009
8	7/9/2009	9:28:43	0.011
9	7/9/2009	9:43:43	0.009
10	7/9/2009	9:58:43	0.009
11	7/9/2009	10:13:43	0.009
12	7/9/2009	10:28:43	0.01
13	7/9/2009	10:43:43	0.011
14	7/9/2009	10:58:43	0.01
15	7/9/2009	11:13:43	0.01
16	7/9/2009	11:28:43	0.012

17	7/9/2009	11:43:43	0.011
18	7/9/2009	11:58:43	0.011
19	7/9/2009	12:13:43	0.011
20	7/9/2009	12:28:43	0.011
21	7/9/2009	12:43:43	0.011
22	7/9/2009	12:58:43	0.012
23	7/9/2009	13:13:43	0.013
24	7/9/2009	13:28:43	0.013
25	7/9/2009	13:43:43	0.014
26	7/9/2009	13:58:43	0.017
27	7/9/2009	14:13:43	0.02
28	7/9/2009	14:28:43	0.015
29	7/9/2009	14:43:43	0.015
30	7/9/2009	14:58:43	0.016

# Test 001

Instrument	Data Properties
Dust Trak	
Model	Start Date 7/9/2009
Meter S/N 23424	Start Time 7:34:02
	Stop Date 7/9/2009
	Stop Time 15:04:02
	Total
	Time 0:07:30:00
	Logging 900
	Interval seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/9/2009	7:49:02	0.02
2	7/9/2009	8:04:02	0.022
3	7/9/2009	8:19:02	0.016
4	7/9/2009	8:34:02	0.021
5	7/9/2009	8:49:02	0.023
6	7/9/2009	9:04:02	0.02
7	7/9/2009	9:19:02	0.015
8	7/9/2009	9:34:02	0.014
9	7/9/2009	9:49:02	0.017
10	7/9/2009	10:04:02	0.015
11	7/9/2009	10:19:02	0.014
12	7/9/2009	10:34:02	0.012
13	7/9/2009	10:49:02	0.015
14	7/9/2009	11:04:02	0.015
15	7/9/2009	11:19:02	0.014
16	7/9/2009	11:34:02	0.024

17	7/9/2009	11:49:02	0.01
18	7/9/2009	12:04:02	0.014
19	7/9/2009	12:19:02	0.011
20	7/9/2009	12:34:02	0.01
21	7/9/2009	12:49:02	0.008
22	7/9/2009	13:04:02	0.014
23	7/9/2009	13:19:02	0.022
24	7/9/2009	13:34:02	0.015
25	7/9/2009	13:49:02	0.012
26	7/9/2009	14:04:02	0.015
27	7/9/2009	14:19:02	0.017
28	7/9/2009	14:34:02	0.014
29	7/9/2009	14:49:02	0.009
30	7/9/2009	15:04:02	0.013

# Test 001

Instrument		Data Properties	
Dust Trak			
Model	85200737	Start Date	7/9/2009
Meter S/N		Start Time	7:28:40
		Stop Date	7/9/2009
		Stop Time	14:58:40
		Total	
		Time	0:07:30:00
		Logging	900
		Interval	seconds

## Test Data

Sample	Date	Time	Aerosol mg/m <sup>3</sup>
1	7/9/2009	7:43:40	0.013
2	7/9/2009	7:58:40	0.017
3	7/9/2009	8:13:40	0.013
4	7/9/2009	8:28:40	0.015
5	7/9/2009	8:43:40	0.017
6	7/9/2009	8:58:40	0.028
7	7/9/2009	9:13:40	0.012
8	7/9/2009	9:28:40	0.01
9	7/9/2009	9:43:40	0.01
10	7/9/2009	9:58:40	0.01
11	7/9/2009	10:13:40	0.016
12	7/9/2009	10:28:40	0.009
13	7/9/2009	10:43:40	0.007
14	7/9/2009	10:58:40	0.009
15	7/9/2009	11:13:40	0.009
16	7/9/2009	11:28:40	0.008

17	7/9/2009	11:43:40	0.01
18	7/9/2009	11:58:40	0.009
19	7/9/2009	12:13:40	0.015
20	7/9/2009	12:28:40	0.008
21	7/9/2009	12:43:40	0.008
22	7/9/2009	12:58:40	0.009
23	7/9/2009	13:13:40	0.011
24	7/9/2009	13:28:40	0.012
25	7/9/2009	13:43:40	0.009
26	7/9/2009	13:58:40	0.013
27	7/9/2009	14:13:40	0.009
28	7/9/2009	14:28:40	0.009
29	7/9/2009	14:43:40	0.008
30	7/9/2009	14:58:40	0.008

# APPENDIX I

Analytical Data for Solid Waste Characterization



## Analytical Report

Work Order: RSF0942

### Project Description

National Grid - Little Falls (Mill Street)

For:

Project Manager

**ARCADIS U.S., Inc. - Syracuse, NY**

6723 Towpath Road, PO Box 66

Syracuse, NY 13214-0066



---

Candace Fox

Project Manager

candace.fox@testamericainc.com

Thursday, July 2, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.



## TestAmerica Buffalo Current Certifications

**As of 1/27/2009**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	CWA, RCRA, SOIL	88-0686
<b>California*</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida*</b>	NELAP CWA, RCRA	E87672
<b>Georgia*</b>	SDWA, NELAP CWA, RCRA	956
<b>Illinois*</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas*</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana*</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY0044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire*</b>	NELAP SDWA, CWA	233701
<b>New Jersey*</b>	NELAP, SDWA, CWA, RCRA,	NY455
<b>New York*</b>	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania*</b>	NELAP CWA, RCRA	68-00281
<b>Tennessee</b>	SDWA	02970
<b>Texas*</b>	NELAP CWA, RCRA	T10470441208-TX
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington*</b>	NELAP CWA, RCRA	C1677
<b>Wisconsin</b>	CWA, RCRA	998310390
<b>West Virginia</b>	CWA, RCRA	252

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/24/09  
Reported: 07/02/09 16:36

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### **Case Narrative**

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/24/09  
Reported: 07/02/09 16:36

#### DATA QUALIFIERS AND DEFINITIONS

>	Result is greater than the indicated value.
B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
BT	Analyte detected in the TCLP Extractor Blank. Analyte at least five times less than the TCLP Regulatory limit.
D02	Dilution required due to sample matrix effects
D07	Dilution required due to the nature of the TCLP matrix
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
QSU	Sulfur (EPA 3660) clean-up performed on extract.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

#### ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/24/09  
Reported: 07/02/09 16:36

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0942-01 (WC(SOIL)-1 - Solid)					Sampled: 06/23/09 13:15			Recvd: 06/24/09 09:10		
<u>General Chemistry Parameters</u>										
pH	7.64		NR	NR	SU	1.00	06/25/09 16:31	RJK	9F25102	9045
Flashpoint	>176		50.0	NR	°F	1.00	06/30/09 16:05	RMM	9F30073	1010
<u>TCLP Metals</u>										
Barium	0.797	B1, B	0.0020	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Cadmium	0.0137		0.0010	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Lead	0.0304		0.0060	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Sample ID: RSF0942-02 (WC(SOIL)-2 - Solid)					Sampled: 06/23/09 14:00			Recvd: 06/24/09 09:10		
<u>General Chemistry Parameters</u>										
pH	12.4		NR	NR	SU	1.00	06/25/09 16:31	RJK	9F25102	9045
Flashpoint	>176		50.0	NR	°F	1.00	06/30/09 16:05	RMM	9F30073	1010
<u>TCLP Metals</u>										
Barium	0.911	BT, D02, B	0.0100	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Cadmium	0.0071	BT, D02, B	0.0050	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Chromium	0.0570	D02	0.0200	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Lead	1.66	D02	0.0300	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/24/09  
Reported: 07/02/09 16:36

### Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
WC(SOIL)-1	RSF0942-01	Solid	06/23/09 13:15	06/24/09 09:10	
WC(SOIL)-2	RSF0942-02	Solid	06/23/09 14:00	06/24/09 09:10	

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6723 Towpath Road, PO Box 66  
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Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSF0942-01 (WC(SOIL)-1 - Solid)

Sampled: 06/23/09 13:15

Recvd: 06/24/09 09:10

### General Chemistry Parameters

pH	7.64		NA	NR	SU	1.00	06/25/09 16:31	RJK	9F25102	9045
HCN Released From Waste	ND		10.0	NR	mg/kg	1.00	07/01/09 21:01	RLG	9G01094	Section 7.3
Flashpoint	>176		50.0	NR	°F	1.00	06/30/09 16:05	RMM	9F30073	1010
H2S Released From Waste	ND		10.0	NR	mg/kg	1.00	07/01/09 21:02	RLG	9G01095	Section 7.3

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		20	4.0	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1221	ND		20	4.0	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1232	ND		20	4.0	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1242	ND		20	4.4	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1248	ND		20	4.0	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1254	ND		20	4.3	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082
Aroclor 1260	ND		20	4.3	ug/kg dry	1.00	06/25/09 17:18	JM	9F24072	8082

Decachlorobiphenyl	88 %		Surr Limits: (34-148%)				06/25/09 17:18	JM	9F24072	8082
Tetrachloro-m-xylene	83 %		Surr Limits: (35-134%)				06/25/09 17:18	JM	9F24072	8082

### TCLP Metals

Arsenic	ND		0.0100	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Barium	0.797	B1, B	0.0020	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Cadmium	0.0137		0.0010	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Chromium	ND		0.0040	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Lead	0.0304		0.0060	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Silver	ND		0.0030	NR	mg/L	1.00	06/26/09 21:26	DAN	9F25032	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	06/25/09 18:51	MM	9F25045	7470A

### TCLP Semivolatile Compounds by EPA Method 1311/8270C

1,4-Dichlorobenzene	ND		40	0.62	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
2,4,5-Trichlorophenol	ND		20	4.0	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
2,4,6-Trichlorophenol	ND		20	4.0	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
2,4-Dinitrotoluene	ND		20	1.8	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
2-Methylphenol	ND		20	0.91	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Hexachlorobenzene	ND		20	1.8	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Hexachlorobutadiene	ND		20	10	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Hexachloroethane	ND		20	11	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Nitrobenzene	ND		20	2.2	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Pentachlorophenol	ND		40	21	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C
Pyridine	ND		100	6.4	ug/L	1.00	06/27/09 19:35	MKP	9F25055	8270C

2,4,6-Tribromophenol	109 %		Surr Limits: (52-132%)				06/27/09 19:35	MKP	9F25055	8270C
2-Fluorobiphenyl	78 %		Surr Limits: (48-120%)				06/27/09 19:35	MKP	9F25055	8270C
2-Fluorophenol	44 %		Surr Limits: (20-120%)				06/27/09 19:35	MKP	9F25055	8270C
Nitrobenzene-d5	93 %		Surr Limits: (46-120%)				06/27/09 19:35	MKP	9F25055	8270C
Phenol-d5	31 %		Surr Limits: (16-120%)				06/27/09 19:35	MKP	9F25055	8270C
p-Terphenyl-d14	66 %		Surr Limits: (24-136%)				06/27/09 19:35	MKP	9F25055	8270C

### TCLP Volatile Organic Compounds by EPA Method 1311/8260B

1,1-Dichloroethene	ND	D07	10	2.9	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
1,2-Dichloroethane	ND	D07	10	2.1	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B

TestAmerica Buffalo

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0942-01 (WC(SOIL)-1 - Solid) - cont.						Sampled: 06/23/09 13:15		Recvd: 06/24/09 09:10		
<u>TCLP Volatile Organic Compounds by EPA Method 1311/8260B - cont.</u>										
2-Butanone (MEK)	ND	D07	50	13	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Benzene	ND	D07	10	1.6	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Carbon Tetrachloride	ND	D07	10	2.7	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Chlorobenzene	ND	D07	10	3.2	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Chloroform	ND	D07	10	3.4	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Tetrachloroethene	ND	D07	10	3.6	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Trichloroethene	ND	D07	10	1.8	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
Vinyl chloride	ND	D07	10	2.4	ug/L	10.0	07/01/09 00:19	NMD	9F29008	8260B
1,2-Dichloroethane-d4	94 %	D07	Surr Limits: (66-137%)				07/01/09 00:19	NMD	9F29008	8260B
4-Bromofluorobenzene	99 %	D07	Surr Limits: (73-120%)				07/01/09 00:19	NMD	9F29008	8260B
Toluene-d8	98 %	D07	Surr Limits: (71-126%)				07/01/09 00:19	NMD	9F29008	8260B

ARCADIS U.S., Inc. - Syracuse, NY  
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Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSF0942-02 (WC(SOIL)-2 - Solid)

Sampled: 06/23/09 14:00

Recvd: 06/24/09 09:10

### General Chemistry Parameters

pH	12.4		NA	NR	SU	1.00	06/25/09 16:31	RJK	9F25102	9045
HCN Released From Waste	ND		10.0	NR	mg/kg	1.00	07/01/09 21:01	RLG	9G01094	Section 7.3
Flashpoint	>176		50.0	NR	°F	1.00	06/30/09 16:05	RMM	9F30073	1010
H2S Released From Waste	ND		10.0	NR	mg/kg	1.00	07/01/09 21:02	RLG	9G01095	Section 7.3

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		21	4.1	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1221	ND		21	4.1	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1232	ND		21	4.1	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1242	ND		21	4.6	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1248	ND		21	4.1	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1254	ND		21	4.4	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082
Aroclor 1260	ND		21	4.4	ug/kg dry	1.00	06/25/09 17:33	JM	9F24072	8082

Decachlorobiphenyl	122 %		Surr Limits: (34-148%)				06/25/09 17:33	JM	9F24072	8082
Tetrachloro-m-xylene	73 %		Surr Limits: (35-134%)				06/25/09 17:33	JM	9F24072	8082

### TCLP Metals

Arsenic	ND	D02	0.0500	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Barium	0.911	BT, D02, B	0.0100	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Cadmium	0.0071	BT, D02, B	0.0050	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Chromium	0.0570	D02	0.0200	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Lead	1.66	D02	0.0300	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Selenium	ND	D02	0.0750	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Silver	ND	D02	0.0150	NR	mg/L	5.00	06/26/09 22:28	DAN	9F25033	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	06/25/09 19:07	MM	9F25076	7470A

### TCLP Semivolatile Compounds by EPA Method 1311/8270C

1,4-Dichlorobenzene	ND		40	0.62	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
2,4,5-Trichlorophenol	ND		20	4.0	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
2,4,6-Trichlorophenol	ND		20	4.0	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
2,4-Dinitrotoluene	ND		20	1.8	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
2-Methylphenol	ND		20	0.91	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Hexachlorobenzene	ND		20	1.8	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Hexachlorobutadiene	ND		20	10	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Hexachloroethane	ND		20	11	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Nitrobenzene	ND		20	2.2	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Pentachlorophenol	ND		40	21	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C
Pyridine	ND		100	6.4	ug/L	1.00	06/27/09 19:58	MKP	9F25055	8270C

2,4,6-Tribromophenol	107 %		Surr Limits: (52-132%)				06/27/09 19:58	MKP	9F25055	8270C
2-Fluorobiphenyl	73 %		Surr Limits: (48-120%)				06/27/09 19:58	MKP	9F25055	8270C
2-Fluorophenol	41 %		Surr Limits: (20-120%)				06/27/09 19:58	MKP	9F25055	8270C
Nitrobenzene-d5	86 %		Surr Limits: (46-120%)				06/27/09 19:58	MKP	9F25055	8270C
Phenol-d5	28 %		Surr Limits: (16-120%)				06/27/09 19:58	MKP	9F25055	8270C
p-Terphenyl-d14	50 %		Surr Limits: (24-136%)				06/27/09 19:58	MKP	9F25055	8270C

### TCLP Volatile Organic Compounds by EPA Method 1311/8260B

1,1-Dichloroethene	ND	D07	10	2.9	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
1,2-Dichloroethane	ND	D07	10	2.1	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0942-02 (WC(SOIL)-2 - Solid) - cont.						Sampled: 06/23/09 14:00		Recvd: 06/24/09 09:10		
<u>TCLP Volatile Organic Compounds by EPA Method 1311/8260B - cont.</u>										
2-Butanone (MEK)	ND	D07	50	13	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Benzene	ND	D07	10	1.6	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Carbon Tetrachloride	ND	D07	10	2.7	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Chlorobenzene	ND	D07	10	3.2	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Chloroform	ND	D07	10	3.4	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Tetrachloroethene	ND	D07	10	3.6	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Trichloroethene	ND	D07	10	1.8	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
Vinyl chloride	ND	D07	10	2.4	ug/L	10.0	07/01/09 00:41	NMD	9F29008	8260B
1,2-Dichloroethane-d4	96 %	D07	Surr Limits: (66-137%)				07/01/09 00:41	NMD	9F29008	8260B
4-Bromofluorobenzene	102 %	D07	Surr Limits: (73-120%)				07/01/09 00:41	NMD	9F29008	8260B
Toluene-d8	102 %	D07	Surr Limits: (71-126%)				07/01/09 00:41	NMD	9F29008	8260B

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Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
1010	9F30073	RSF0942-01	50.00	g	50.00	mL	06/30/09 15:57	RMM	Flashpoint
1010	9F30073	RSF0942-02	50.00	g	50.00	mL	06/30/09 15:57	RMM	Flashpoint
9045	9F25102	RSF0942-01	1.00	g	1.00	mL	06/25/09 16:20	RJK	LpH
9045	9F25102	RSF0942-02	1.00	g	1.00	mL	06/25/09 16:20	RJK	LpH
Section 7.3	9G01094	RSF0942-01	5.00	g	5.00	mL	07/01/09 21:01	RLG	Reactivity
Section 7.3	9G01094	RSF0942-02	5.00	g	5.00	mL	07/01/09 21:01	RLG	Reactivity
Section 7.3	9G01095	RSF0942-01	200.00	g	200.00	mL	07/01/09 21:02	RLG	Reactivity
Section 7.3	9G01095	RSF0942-02	200.00	g	200.00	mL	07/01/09 21:02	RLG	Reactivity
Polychlorinated Biphenyls by EPA Method 8082									
8082	9F24072	RSF0942-01	30.28	g	10.00	mL	06/24/09 15:18	LT	3550B GC
8082	9F24072	RSF0942-02	30.31	g	10.00	mL	06/24/09 15:18	LT	3550B GC
TCLP Metals									
6010B	9F25032	RSF0942-01	50.00	mL	50.00	mL	06/25/09 09:30	MLD	3010A
6010B	9F25033	RSF0942-02	50.00	mL	50.00	mL	06/25/09 09:30	MLD	3010A
7470A	9F25045	RSF0942-01	30.00	mL	50.00	mL	06/25/09 12:15	MM	7470A
7470A	9F25076	RSF0942-02	30.00	mL	50.00	mL	06/25/09 12:15	MM	7470A
TCLP Semivolatile Compounds by EPA Method 1311/8270C									
8270C	9F25055	RSF0942-01	250.00	mL	1.00	mL	06/25/09 14:00	EKD	3510C MB
8270C	9F25055	RSF0942-02	250.00	mL	1.00	mL	06/25/09 14:00	EKD	3510C MB
TCLP Volatile Organic Compounds by EPA Method 1311/8260B									
8260B	9F29008	RSF0942-01	5.00	mL	5.00	mL	06/29/09 07:57	SRW	5030B MS TCLP
8260B	9F29008	RSF0942-02	5.00	mL	5.00	mL	06/29/09 07:57	SRW	5030B MS TCLP

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Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### General Chemistry Parameters

**LCS Analyzed: 06/25/09 (Lab Number:9F25102-BS1, Batch: 9F25102)**

pH		7.00	NA	NR	SU	7.01	100	99.3-100.8			
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#### General Chemistry Parameters

**LCS Analyzed: 06/30/09 (Lab Number:9F30073-BS1, Batch: 9F30073)**

Flashpoint		81.0	50.0	NR	°F	81.0	100	97.5-102.5			
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#### General Chemistry Parameters

**Blank Analyzed: 07/01/09 (Lab Number:9G01094-BLK1, Batch: 9G01094)**

HCN Released From Waste			10.0	NR	mg/kg	ND					
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**LCS Analyzed: 07/01/09 (Lab Number:9G01094-BS1, Batch: 9G01094)**

HCN Released From Waste		1000	10.0	NR	mg/kg	342	34	10-100			
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**Duplicate Analyzed: 07/01/09 (Lab Number:9G01094-DUP1, Batch: 9G01094)**

QC Source Sample: RSF0942-01

HCN Released From Waste	0.230		10.0	NR	mg/kg	0.250			8	20	
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#### General Chemistry Parameters

**Blank Analyzed: 07/01/09 (Lab Number:9G01095-BLK1, Batch: 9G01095)**

H2S Released From Waste			10.0	NR	mg/kg	ND					
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**LCS Analyzed: 07/01/09 (Lab Number:9G01095-BS1, Batch: 9G01095)**

H2S Released From Waste		570	10.0	NR	mg/kg	110	19	10-100			
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**Duplicate Analyzed: 07/01/09 (Lab Number:9G01095-DUP1, Batch: 9G01095)**

QC Source Sample: RSF0942-01

H2S Released From Waste	ND		10.0	NR	mg/kg	ND				20	
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Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Polychlorinated Biphenyls by EPA Method 8082</u></b>											
<b>Blank Analyzed: 06/25/09 (Lab Number:9F24072-BLK1, Batch: 9F24072)</b>											
Aroclor 1016			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.6	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.5	ug/kg wet	ND					QSU
Aroclor 1260			16	3.5	ug/kg wet	ND					QSU
<i>Surrogate:</i>					ug/kg wet		94	34-148			QSU
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					ug/kg wet		95	35-134			QSU
<i>Tetrachloro-m-xylene</i>											
<b>LCS Analyzed: 06/25/09 (Lab Number:9F24072-BS1, Batch: 9F24072)</b>											
Aroclor 1016		160	16	3.2	ug/kg wet	158	97	59-154			QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.6	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.5	ug/kg wet	ND					QSU
Aroclor 1260		160	16	3.5	ug/kg wet	153	93	51-179			QSU
<i>Surrogate:</i>					ug/kg wet		92	34-148			QSU
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					ug/kg wet		95	35-134			QSU
<i>Tetrachloro-m-xylene</i>											
<b>LCS Dup Analyzed: 06/25/09 (Lab Number:9F24072-BSD1, Batch: 9F24072)</b>											
Aroclor 1016		170	17	3.2	ug/kg wet	166	100	59-154	5	50	QSU
Aroclor 1221			17	3.2	ug/kg wet	ND					QSU
Aroclor 1232			17	3.2	ug/kg wet	ND					QSU
Aroclor 1242			17	3.6	ug/kg wet	ND					QSU
Aroclor 1248			17	3.2	ug/kg wet	ND					QSU
Aroclor 1254			17	3.5	ug/kg wet	ND					QSU
Aroclor 1260		170	17	3.5	ug/kg wet	158	96	51-179	3	50	QSU
<i>Surrogate:</i>					ug/kg wet		95	34-148			QSU
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					ug/kg wet		100	35-134			QSU
<i>Tetrachloro-m-xylene</i>											

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Metals

##### Blank Analyzed: 06/26/09 (Lab Number:9F25032-BLK1, Batch: 9F25032)

Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	0.0220					B
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0060	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					

##### Blank Analyzed: 06/26/09 (Lab Number:9F25032-BLK2, Batch: 9F25032)

Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	ND					
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0060	NR	mg/L	ND					B
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					

##### LCS Analyzed: 06/26/09 (Lab Number:9F25032-BS1, Batch: 9F25032)

Arsenic	1.00	0.0100	NR	mg/L	1.04	104	85-115				
Barium	1.00	0.0020	NR	mg/L	1.03	103	85-115				B1,B
Cadmium	1.00	0.0010	NR	mg/L	0.994	99	85-115				
Chromium	1.00	0.0040	NR	mg/L	0.981	98	85-115				
Lead	1.00	0.0060	NR	mg/L	0.983	98	85-115				
Selenium	1.00	0.0150	NR	mg/L	1.05	105	85-115				
Silver	1.00	0.0030	NR	mg/L	1.04	104	85-115				

##### Matrix Spike Analyzed: 06/26/09 (Lab Number:9F25032-MS1, Batch: 9F25032)

QC Source Sample: RSF0942-01

Arsenic	ND	1.00	0.0100	NR	mg/L	1.04	104	70-130			
Barium	0.797	1.00	0.0020	NR	mg/L	1.79	100	70-130			B1,B
Cadmium	0.0137	1.00	0.0010	NR	mg/L	0.970	96	70-130			
Chromium	0.00376	1.00	0.0040	NR	mg/L	0.958	95	70-130			
Lead	0.0304	1.00	0.0060	NR	mg/L	0.996	97	70-130			
Selenium	0.00764	1.00	0.0150	NR	mg/L	1.07	107	70-130			
Silver	ND	1.00	0.0030	NR	mg/L	1.07	107	70-130			

##### Matrix Spike Dup Analyzed: 06/26/09 (Lab Number:9F25032-MSD1, Batch: 9F25032)

QC Source Sample: RSF0942-01

Arsenic	ND	1.00	0.0100	NR	mg/L	1.04	104	70-130	0.5	20	
Barium	0.797	1.00	0.0020	NR	mg/L	1.79	99	70-130	0.4	20	B1,B

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Metals

**Matrix Spike Dup Analyzed: 06/26/09 (Lab Number:9F25032-MSD1, Batch: 9F25032)**

QC Source Sample: RSF0942-01

Cadmium	0.0137	1.00	0.0010	NR	mg/L	0.966	95	70-130	0.3	20	
Chromium	0.00376	1.00	0.0040	NR	mg/L	0.956	95	70-130	0.2	20	
Lead	0.0304	1.00	0.0060	NR	mg/L	0.995	96	70-130	0.2	20	
Selenium	0.00764	1.00	0.0150	NR	mg/L	1.05	104	70-130	2	20	
Silver	ND	1.00	0.0030	NR	mg/L	1.07	107	70-130	0.4	20	

#### TCLP Metals

**Blank Analyzed: 06/26/09 (Lab Number:9F25033-BLK1, Batch: 9F25033)**

Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	0.0139					B
Cadmium			0.0010	NR	mg/L	0.0011					B
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0060	NR	mg/L	ND					B
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					

**Blank Analyzed: 06/26/09 (Lab Number:9F25033-BLK2, Batch: 9F25033)**

Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	ND					B
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0060	NR	mg/L	ND					B
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					

**LCS Analyzed: 06/26/09 (Lab Number:9F25033-BS1, Batch: 9F25033)**

Arsenic		1.00	0.0100	NR	mg/L	0.923	92	85-115			
Barium		1.00	0.0020	NR	mg/L	0.958	96	85-115			B1,B
Cadmium		1.00	0.0010	NR	mg/L	0.931	93	85-115			B1,B
Chromium		1.00	0.0040	NR	mg/L	0.930	93	85-115			
Lead		1.00	0.0060	NR	mg/L	0.923	92	85-115			
Selenium		1.00	0.0150	NR	mg/L	0.964	96	85-115			
Silver		1.00	0.0030	NR	mg/L	0.923	92	85-115			

**Matrix Spike Analyzed: 06/26/09 (Lab Number:9F25033-MS1, Batch: 9F25033)**

QC Source Sample: RSF0942-02

Arsenic	0.0338	1.00	0.0500	NR	mg/L	1.03	100	70-130			D02
Barium	0.911	1.00	0.0100	NR	mg/L	1.99	108	70-130			D02,B1,B

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Metals

**Matrix Spike Analyzed: 06/26/09 (Lab Number:9F25033-MS1, Batch: 9F25033)**

QC Source Sample: RSF0942-02

Cadmium	0.00710	1.00	0.0050	NR	mg/L	0.991	98	70-130			D02,B1,B
Chromium	0.0570	1.00	0.0200	NR	mg/L	1.04	99	70-130			D02
Lead	1.66	1.00	0.0300	NR	mg/L	2.70	104	70-130			D02
Selenium	0.0336	1.00	0.0750	NR	mg/L	1.04	101	70-130			D02
Silver	ND	1.00	0.0150	NR	mg/L	1.03	103	70-130			D02

**Matrix Spike Dup Analyzed: 06/26/09 (Lab Number:9F25033-MSD1, Batch: 9F25033)**

QC Source Sample: RSF0942-02

Arsenic	0.0338	1.00	0.0500	NR	mg/L	1.04	100	70-130	0.5	20	D02
Barium	0.911	1.00	0.0100	NR	mg/L	2.01	110	70-130	1	20	D02,B1,B
Cadmium	0.00710	1.00	0.0050	NR	mg/L	1.00	100	70-130	1	20	D02,B1,B
Chromium	0.0570	1.00	0.0200	NR	mg/L	1.06	100	70-130	2	20	D02
Lead	1.66	1.00	0.0300	NR	mg/L	2.75	110	70-130	2	20	D02
Selenium	0.0336	1.00	0.0750	NR	mg/L	1.04	101	70-130	0.4	20	D02
Silver	ND	1.00	0.0150	NR	mg/L	1.05	105	70-130	2	20	D02

#### TCLP Metals

**Blank Analyzed: 06/25/09 (Lab Number:9F25045-BLK1, Batch: 9F25045)**

Mercury			0.0002	0.0001	mg/L	ND					
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**Blank Analyzed: 06/25/09 (Lab Number:9F25045-BLK2, Batch: 9F25045)**

Mercury			0.0002	0.0001	mg/L	ND					
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**LCS Analyzed: 06/25/09 (Lab Number:9F25045-BS1, Batch: 9F25045)**

Mercury		0.00670	0.0002	0.0001	mg/L	0.00568	85	80-120			
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**Matrix Spike Analyzed: 06/25/09 (Lab Number:9F25045-MS1, Batch: 9F25045)**

QC Source Sample: RSF0942-01

Mercury	ND	0.00670	0.0002	0.0001	mg/L	0.00332	50	75-125			M1
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**Matrix Spike Dup Analyzed: 06/25/09 (Lab Number:9F25045-MSD1, Batch: 9F25045)**

QC Source Sample: RSF0942-01

Mercury	ND	0.00670	0.0002	0.0001	mg/L	0.00342	51	75-125	3	20	M1
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#### TCLP Metals

**Blank Analyzed: 06/25/09 (Lab Number:9F25076-BLK1, Batch: 9F25076)**

Mercury			0.0002	0.0001	mg/L	ND					
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**Blank Analyzed: 06/25/09 (Lab Number:9F25076-BLK2, Batch: 9F25076)**

Mercury			0.0002	0.0001	mg/L	ND					
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Work Order: RSF0942

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Project Number: [none]

Received: 06/24/09  
Reported: 07/02/09 16:36

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>TCLP Metals</u></b>											
<b>LCS Analyzed: 06/25/09 (Lab Number:9F25076-BS1, Batch: 9F25076)</b>											
Mercury		0.00670	0.0002	0.0001	mg/L	0.00533	80	80-120			
<b>Matrix Spike Analyzed: 06/25/09 (Lab Number:9F25076-MS1, Batch: 9F25076)</b>											
<b>QC Source Sample: RSF0942-02</b>											
Mercury	ND	0.00670	0.0002	0.0001	mg/L	0.00597	89	75-125			
<b>Matrix Spike Dup Analyzed: 06/25/09 (Lab Number:9F25076-MSD1, Batch: 9F25076)</b>											
<b>QC Source Sample: RSF0942-02</b>											
Mercury	ND	0.00670	0.0002	0.0001	mg/L	0.00557	83	75-125	7	20	



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Semivolatile Compounds by EPA Method 1311/8270C

**Blank Analyzed: 06/27/09 (Lab Number:9F25055-BLK1, Batch: 9F25055)**

1,4-Dichlorobenzene			10	0.16	ug/L	ND					
2,4,5-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4,6-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4-Dinitrotoluene			5.0	0.45	ug/L	ND					
2-Methylphenol			5.0	0.23	ug/L	ND					
3-Methylphenol			10	0.58	ug/L	ND					
4-Methylphenol			10	0.58	ug/L	ND					
Hexachlorobenzene			5.0	0.45	ug/L	ND					
Hexachlorobutadiene			5.0	2.6	ug/L	ND					
Hexachloroethane			5.0	2.8	ug/L	ND					
Nitrobenzene			5.0	0.54	ug/L	ND					
Pentachlorophenol			10	5.1	ug/L	ND					
Pyridine			25	1.6	ug/L	ND					

Surrogate:					ug/L		106	52-132			
2,4,6-Tribromophenol											
Surrogate:					ug/L		76	48-120			
2-Fluorobiphenyl											
Surrogate:					ug/L		38	20-120			
2-Fluorophenol											
Surrogate:					ug/L		82	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		28	16-120			
Surrogate:					ug/L		73	24-136			
p-Terphenyl-d14											

**Blank Analyzed: 06/27/09 (Lab Number:9F25055-BLK2, Batch: 9F25055)**

1,4-Dichlorobenzene			40	0.62	ug/L	ND					
2,4,5-Trichlorophenol			20	4.0	ug/L	ND					
2,4,6-Trichlorophenol			20	4.0	ug/L	ND					
2,4-Dinitrotoluene			20	1.8	ug/L	ND					
2-Methylphenol			20	0.91	ug/L	ND					
3-Methylphenol			40	2.3	ug/L	ND					
4-Methylphenol			40	2.3	ug/L	ND					
Hexachlorobenzene			20	1.8	ug/L	ND					
Hexachlorobutadiene			20	10	ug/L	ND					
Hexachloroethane			20	11	ug/L	ND					
Nitrobenzene			20	2.2	ug/L	ND					
Pentachlorophenol			40	21	ug/L	ND					
Pyridine			100	6.4	ug/L	ND					

Surrogate:					ug/L		105	52-132			
2,4,6-Tribromophenol											

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Syracuse, NY 13214-0066

Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Semivolatile Compounds by EPA Method 1311/8270C

##### Blank Analyzed: 06/27/09 (Lab Number:9F25055-BLK2, Batch: 9F25055)

Surrogate:					ug/L		77	48-120			
2-Fluorobiphenyl											
Surrogate:					ug/L		39	20-120			
2-Fluorophenol											
Surrogate:					ug/L		87	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		28	16-120			
Surrogate:					ug/L		74	24-136			
p-Terphenyl-d14											

##### Blank Analyzed: 06/27/09 (Lab Number:9F25055-BLK3, Batch: 9F25055)

1,4-Dichlorobenzene			40	0.62	ug/L	ND					
2,4,5-Trichlorophenol			20	4.0	ug/L	ND					
2,4,6-Trichlorophenol			20	4.0	ug/L	ND					
2,4-Dinitrotoluene			20	1.8	ug/L	ND					
2-Methylphenol			20	0.91	ug/L	ND					
3-Methylphenol			40	2.3	ug/L	ND					
4-Methylphenol			40	2.3	ug/L	ND					
Hexachlorobenzene			20	1.8	ug/L	ND					
Hexachlorobutadiene			20	10	ug/L	ND					
Hexachloroethane			20	11	ug/L	ND					
Nitrobenzene			20	2.2	ug/L	ND					
Pentachlorophenol			40	21	ug/L	ND					
Pyridine			100	6.4	ug/L	ND					

Surrogate:					ug/L		83	52-132			
2,4,6-Tribromophenol											
Surrogate:					ug/L		57	48-120			
2-Fluorobiphenyl											
Surrogate:					ug/L		30	20-120			
2-Fluorophenol											
Surrogate:					ug/L		65	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		22	16-120			
Surrogate:					ug/L		63	24-136			
p-Terphenyl-d14											

##### LCS Analyzed: 06/27/09 (Lab Number:9F25055-BS1, Batch: 9F25055)

1,4-Dichlorobenzene	100	10	0.16	ug/L	57.7	58	25-120				
2,4,5-Trichlorophenol	100	5.0	0.99	ug/L	96.8	97	64-126				
2,4,6-Trichlorophenol	100	5.0	0.99	ug/L	92.7	93	64-120				
2,4-Dinitrotoluene	100	5.0	0.45	ug/L	86.5	86	50-125				
2-Methylphenol	100	5.0	0.23	ug/L	59.6	60	43-120				
3-Methylphenol	100	10	0.58	ug/L	ND		41-120				

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Work Order: RSF0942

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Semivolatile Compounds by EPA Method 1311/8270C

#### **LCS Analyzed: 06/27/09 (Lab Number:9F25055-BS1, Batch: 9F25055)**

4-Methylphenol		100	10	0.58	ug/L	117	117	41-120			
Hexachlorobenzene		100	5.0	0.45	ug/L	66.8	67	38-131			
Hexachlorobutadiene		100	5.0	2.6	ug/L	66.0	66	23-120			
Hexachloroethane		100	5.0	2.8	ug/L	63.0	63	20-120			
Nitrobenzene		100	5.0	0.54	ug/L	79.7	80	50-120			
Pentachlorophenol		100	10	5.1	ug/L	94.1	94	39-136			
Pyridine		100	25	1.6	ug/L	57.0	57	10-120			

Surrogate:					ug/L		101	52-132			
2,4,6-Tribromophenol											
Surrogate:					ug/L		75	48-120			
2-Fluorobiphenyl											
Surrogate:					ug/L		35	20-120			
2-Fluorophenol											
Surrogate:					ug/L		78	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		25	16-120			
Surrogate:					ug/L		73	24-136			
p-Terphenyl-d14											

#### **LCS Dup Analyzed: 06/27/09 (Lab Number:9F25055-BSD1, Batch: 9F25055)**

1,4-Dichlorobenzene		100	10	0.16	ug/L	63.0	63	25-120	9	36	
2,4,5-Trichlorophenol		100	5.0	0.99	ug/L	95.6	96	64-126	1	18	
2,4,6-Trichlorophenol		100	5.0	0.99	ug/L	92.1	92	64-120	0.6	19	
2,4-Dinitrotoluene		100	5.0	0.45	ug/L	84.9	85	50-125	2	20	
2-Methylphenol		100	5.0	0.23	ug/L	63.9	64	43-120	7	27	
3-Methylphenol		100	10	0.58	ug/L	ND		41-120		30	
4-Methylphenol		100	10	0.58	ug/L	121	121	41-120	3	30	
Hexachlorobenzene		100	5.0	0.45	ug/L	65.3	65	38-131	2	15	
Hexachlorobutadiene		100	5.0	2.6	ug/L	73.2	73	23-120	10	44	
Hexachloroethane		100	5.0	2.8	ug/L	71.3	71	20-120	12	46	
Nitrobenzene		100	5.0	0.54	ug/L	86.9	87	50-120	9	24	
Pentachlorophenol		100	10	5.1	ug/L	92.2	92	39-136	2	37	
Pyridine		100	25	1.6	ug/L	73.3	73	10-120	25	49	

Surrogate:					ug/L		100	52-132			
2,4,6-Tribromophenol											
Surrogate:					ug/L		78	48-120			
2-Fluorobiphenyl											
Surrogate:					ug/L		40	20-120			
2-Fluorophenol											
Surrogate:					ug/L		84	46-120			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		28	16-120			

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Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

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**TCLP Semivolatile Compounds by EPA Method 1311/8270C**

**LCS Dup Analyzed: 06/27/09 (Lab Number:9F25055-BSD1, Batch: 9F25055)**

Surrogate:	ug/L	71	24-136
<i>p</i> -Terphenyl-d14			

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Project Number: [none]

Received: 06/24/09

Reported: 07/02/09 16:36

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### TCLP Volatile Organic Compounds by EPA Method 1311/8260B

##### Blank Analyzed: 06/30/09 (Lab Number:9F29008-BLK1, Batch: 9F29008)

1,1-Dichloroethene			10	2.9	ug/L	ND					D07
1,2-Dichloroethane			10	2.1	ug/L	ND					D07
2-Butanone (MEK)			50	13	ug/L	ND					D07
Benzene			10	1.6	ug/L	ND					D07
Carbon Tetrachloride			10	2.7	ug/L	ND					D07
Chlorobenzene			10	3.2	ug/L	ND					D07
Chloroform			10	3.4	ug/L	ND					D07
Tetrachloroethene			10	3.6	ug/L	ND					D07
Trichloroethene			10	1.8	ug/L	ND					D07
Vinyl chloride			10	2.4	ug/L	ND					D07

Surrogate:					ug/L		93	66-137			D07
1,2-Dichloroethane-d4											
Surrogate:					ug/L		96	73-120			D07
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/L		100	71-126			D07

##### LCS Analyzed: 06/30/09 (Lab Number:9F29008-BS1, Batch: 9F29008)

1,1-Dichloroethene	25	1.0	0.29	ug/L	26.4	106	65-138			
1,2-Dichloroethane	25	1.0	0.21	ug/L	23.3	93	75-127			
2-Butanone (MEK)	120	5.0	1.3	ug/L	108	86	57-140			
Benzene	25	1.0	0.16	ug/L	24.6	99	71-124			
Carbon Tetrachloride	25	1.0	0.27	ug/L	26.6	106	72-134			
Chlorobenzene	25	1.0	0.32	ug/L	24.4	98	72-120			
Chloroform	25	1.0	0.34	ug/L	24.8	99	73-127			
Tetrachloroethene	25	1.0	0.36	ug/L	24.9	100	74-122			
Trichloroethene	25	1.0	0.18	ug/L	25.3	101	74-123			
Vinyl chloride	25	1.0	0.24	ug/L	25.6	102	65-133			

Surrogate:				ug/L		93	66-137			
1,2-Dichloroethane-d4										
Surrogate:				ug/L		102	73-120			
4-Bromofluorobenzene										
Surrogate: Toluene-d8				ug/L		99	71-126			



# APPENDIX J

## Non-Hazardous Waste Manifests and Weigh Tickets



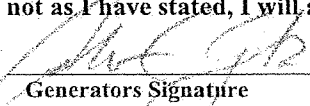
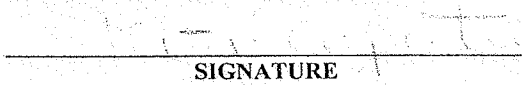
# ONEIDA-HERKIMER SOLID WASTE AUTHORITY

## UNIFORM TRACKING DOCUMENT

1600 Genesee Street, Utica, NY 13502

(315) 733-1224

GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <b>LITTLE FALLS (MILL ST) Non-owned former M&amp;P</b>		DATE: <b>7/8/09</b>	
CONTACT PERSON OR SITE REPRESENTATIVE: <b>Jim Morgan - National Grid</b>		TITLE: <b>PROJECT MANAGER</b>	
FACILITY LOCATION/MAILING ADDRESS: <b>575 EAST MILL ST LITTLE FALLS N.Y. 13365</b>		TELEPHONE NUMBER: <b>315-428-3101</b>	
WASTE TYPE / PROFILE #	Estimate Yards	Container Type	Container #
A: <b>Non HAZ Soil PIPE GALLERY C50709-03</b>	A: <b>230/35T</b>	A: <b>DT</b>	A: _____
B: _____	B: _____	B: _____	B: _____
<p><b>Certification</b> - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.</p> <p>  <span style="margin-left: 100px;">STAFF SCIENTIST</span> <span style="float: right;">7/8/09</span>  Generators Signature Title Date  REP. for NATH. Grid </p>			
TRANSPORTING COMPANY NAME: <b>MANHATTAN Bros Trucking #45</b>		AUTHORITY PERMIT NUMBER: <b>4A-209</b>	
DRIVER'S NAME (PRINT): <b>Tom VILTA</b>		TICKET NUMBER:	
DRIVERS SIGNATURE: <b>Tom VILTA</b>		TRAILER NUMBER: <b>AN-36425</b>	
DATE OF SHIPMENT OF MATERIAL: <b>7/8/09</b>	COMMENTS:	CONTAINER SIZE / TYPE: <b>DT</b>	
DISPOSAL FACILITY NAME: <b>OH SWA-RLF</b>		DISPOSAL SITE REPRESENTATIVE NAME: <b>Josh OLBRY</b>	
WASTE TYPE RECEIVED: <b>Construction Soil</b>		DATE RECEIVED:	
SCALE TICKET NUMBER: <b>131420</b>	FULL WEIGHT: <b>10930</b>	EMPTY WEIGHT: <b>37710</b>	NET WEIGHT: <b>3461</b>
DISPOSAL FACILITY CERTIFICATION:			
SIGNATURE 		TITLE <b>7/8/09</b>	
COMMENTS: <b>Site Contact Andy Enigke 315-439-0490</b>			

HAULER

DISPOSAL FACILITY

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GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <u>LITTLE FALLS (MILL ST) NON-OWNED FARMER MGP</u>		DATE: <u>7/8/09</u>	
CONTACT PERSON OR SITE REPRESENTATIVE: <u>Jim Morgan National Grid</u>		TITLE: <u>PROJECT MANAGER</u>	
FACILITY LOCATION/MAILING ADDRESS: <u>525 EAST MILL ST. LITTLE FALLS NY. 13365</u>		TELEPHONE NUMBER: <u>315-458-3101</u>	
WASTE TYPE / PROFILE #	Estimate Yards	Container Type	Container #
A: <u>Non HAZ SOIL PIPE GALLERY CS0709-03</u>	A: <u>21 YD / 33T</u>	A: <u>DT</u>	A: _____
B: _____	B: _____	B: _____	B: _____

**Certification** - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.

Generators Signature

Title

Date

STAFF SCIENTIST  
REP for NATL GRID

7/8/09

HAULER

TRANSPORTING COMPANY NAME: <u>MANGIARDI Bros Trucking # 49</u>		AUTHORITY PERMIT NUMBER: <u>4A-209</u>
DRIVER'S NAME (PRINT): <u>Chris Hale</u>		TICKET NUMBER:
DRIVERS SIGNATURE: <u>[Signature]</u>		TRAILER NUMBER: <u>AR 27257</u>
DATE OF SHIPMENT OF MATERIAL: <u>7/8/09</u>	COMMENTS:	CONTAINER SIZE / TYPE: <u>DT</u>

DISPOSAL FACILITY

DISPOSAL FACILITY NAME: <u>OH SWA DLF</u>		DISPOSAL SITE REPRESENTATIVE NAME: <u>Josh OLBRYN</u>	
WASTE TYPE RECEIVED: <u>COAL CUL</u>		DATE RECEIVED:	
SCALE TICKET NUMBER: <u>174581</u>	FULL WEIGHT: <u>106300</u>	EMPTY WEIGHT: <u>3500</u>	NET WEIGHT: <u>102800</u>
DISPOSAL FACILITY CERTIFICATION:			
SIGNATURE		TITLE	
DATE		DATE	
COMMENTS: <u>SITE CONTACT Andy Enigk 315-439-0490</u>			

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GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <u>LITTLE FALLS (MILL ST) NON-OWNED FORMER MGP</u>		DATE: <u>7/8/09</u>	
CONTACT PERSON OR SITE REPRESENTATIVE: <u>JIM MORGAN NATIONAL GRID</u>		TITLE: <u>PROJECT MANAGER</u>	
FACILITY LOCATION/MAILING ADDRESS: <u>575 EAST MILL ST LITTLE FALLS NY 13365</u>		TELEPHONE NUMBER: <u>315-438-3101</u>	
WASTE TYPE / PROFILE #	Estimate Yards	Container Type	Container #
A: <u>NON HAZ SOLID WASTE C50704-03</u>	<u>200/35T</u>	<u>A.DT</u>	A. _____
B: _____	B. _____	B. _____	B. _____

Certification - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.

Generators Signature

Title

Date

TRANSPORTING COMPANY NAME:

AUTHORITY PERMIT NUMBER:

DRIVER'S NAME (PRINT):

TICKET NUMBER:

DRIVERS SIGNATURE:

TRAILER NUMBER:

DATE OF SHIPMENT OF MATERIAL:

COMMENTS:

CONTAINER SIZE / TYPE:

DISPOSAL FACILITY NAME:

DISPOSAL SITE REPRESENTATIVE NAME:

WASTE TYPE RECEIVED:

DATE RECEIVED:

SCALE  
TICKET  
NUMBER:

FULL  
WEIGHT:

EMPTY  
WEIGHT:

NET  
WEIGHT:

DISPOSAL FACILITY CERTIFICATION:

SIGNATURE

TITLE

DATE

COMMENTS:

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03

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GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <b>LITTLE FALLS (MILL ST) NON-OWNED FORMER MGP</b>		DATE: <b>7/8/09</b>	
CONTACT PERSON OR SITE REPRESENTATIVE: <b>Jim Morgan National Grid</b>		TITLE: <b>PROJECT MANAGER</b>	
FACILITY LOCATION/MAILING ADDRESS: <b>575 EAST MILL ST LITTLE FALLS NY 13365</b>		TELEPHONE NUMBER: <b>315-428-3101</b>	
WASTE TYPE / PROFILE #	Estimate Yards	Container Type	Container #
A: <b>Non-HAZ SOIL PREGALIZING CS0709-03</b>	A: <b>2218/33T</b>	A: <b>DT</b>	A: _____
B: _____	B: _____	B: _____	B: _____
<p><b>Certification</b> - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.</p> <p>Generators Signature: <u>[Signature]</u> Title: <u>ST SCIENTIST</u> Date: <u>7/8/09</u> (REP FOR N GRID)</p>			
TRANSPORTING COMPANY NAME: <b>Margardi Bros Trucking #43</b>		AUTHORITY PERMIT NUMBER: <b>4A-209</b>	
DRIVER'S NAME (PRINT): <b>Mike Margardi</b>		TICKET NUMBER:	
DRIVERS SIGNATURE: <u>[Signature]</u>		TRAILER NUMBER: <b>AS62560</b>	
DATE OF SHIPMENT OF MATERIAL: <b>7/8/09</b>	COMMENTS:	CONTAINER SIZE / TYPE:	
DISPOSAL FACILITY NAME: <b>DH SWA TRLS</b>		DISPOSAL SITE REPRESENTATIVE NAME: <b>Josh OLBRY</b>	
WASTE TYPE RECEIVED: <b>Contaminated Soil</b>		DATE RECEIVED:	
SCALE TICKET NUMBER: <b>750106</b>	FULL WEIGHT: <b>102340</b>	EMPTY WEIGHT: <b>31360</b>	NET WEIGHT: <b>3249</b>
DISPOSAL FACILITY CERTIFICATION:			
SIGNATURE: <u>[Signature]</u>		TITLE: <u>7-8-09</u>	
DATE: <b>7-8-09</b>			
COMMENTS: <b>Site Contact Andy Enigk 315-439-0490</b>			

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05

GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <i>LITTLE FALLS (MILL ST) NON-LOADING FORMER MGP</i>		DATE: <i>7/8/09</i>	
CONTACT PERSON OR SITE REPRESENTATIVE: <i>Jim Morgan NATL. Grid</i>		TITLE: <i>PROJECT MANAGER</i>	
FACILITY LOCATION/MAILING ADDRESS: <i>575 EAST MILL ST LITTLE FALLS NY 13365</i>		TELEPHONE NUMBER: <i>315-488-3101</i>	
WASTE TYPE / PROFILE #	Estimate Yards	Container Type	Container #
A: <i>NON HAZ SOIL PIPE SALTITY CS0709-03</i>	A: <i>22YD/34T</i>	A: <i>DT</i>	A: _____
B: _____	B: _____	B: _____	B: _____
<p><b>Certification</b> - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.</p> <p><i>[Signature]</i> <i>STAFF SCIENTIST</i> <i>7/8/09</i> Generators Signature Title Date (Rep for NATL GEN)</p>			
TRANSPORTING COMPANY NAME: <i>Marginal Bros Trucking #49</i>		AUTHORITY PERMIT NUMBER: <i>HA-209</i>	
DRIVER'S NAME (PRINT): <i>Chris Haley</i>		TICKET NUMBER:	
DRIVERS SIGNATURE: <i>[Signature]</i>		TRAILER NUMBER: <i>AR 27257</i>	
DATE OF SHIPMENT OF MATERIAL: <i>7/8/09</i>	COMMENTS:	CONTAINER SIZE / TYPE:	
DISPOSAL FACILITY NAME: <i>OHSWA RLF</i>		DISPOSAL SITE REPRESENTATIVE NAME: <i>Josh OLBRY</i>	
WASTE TYPE RECEIVED: <i>(contaminated)</i>		DATE RECEIVED:	
SCALE TICKET NUMBER: <i>13011</i>	FULL WEIGHT: <i>109440</i>	EMPTY WEIGHT: <i>28200</i>	NET WEIGHT: <i>8111</i>
DISPOSAL FACILITY CERTIFICATION:			
<i>[Signature]</i> SIGNATURE		<i>[Signature]</i> TITLE	
		<i>7-8-9</i> DATE	
COMMENTS: <i>Site Contact Andy Enok 315-439-0490</i>			

HAULER

DISPOSAL FACILITY

COPY DISTRIBUTION:  
WHITE COPY - ONEIDA-HERKIMER SOLID WASTE AUTHORITY  
YELLOW COPY - DISPOSAL FACILITY  
PINK COPY - GENERATOR/HAULER/TRANSPORTER COPY



# ONEIDA-HERKIMER SOLID WASTE AUTHORITY

## UNIFORM TRACKING DOCUMENT

1600 Genesee Street, Utica, NY 13502

(315) 733-1224

GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <u>LITTLE FALLS (MILL ST) Non-saturated former MGP</u>		DATE: <u>7/9/09</u>	
CONTACT PERSON OR SITE REPRESENTATIVE: <u>Jim Morgan NATL. Grid</u>		TITLE: <u>PROJECT MANAGER</u>	
FACILITY LOCATION/MAILING ADDRESS: <u>825 EAST MILL ST LITTLE FALLS NY 13365</u>		TELEPHONE NUMBER: <u>315-438-3101</u>	
WASTE TYPE / PROFILE # <u>155 SPILLS</u>	Estimate Yards <u>1200/35T</u>	Container Type <u>A. DT</u>	Container # <u>A. _____</u>
A: <u>NON HAZ SOIL PRETREATMENT CS0709-03</u>	B: _____	B: _____	B: _____

**Certification** - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.

Generators Signature: [Signature] Title: STAFF SCIENTIST Date: 7/9/09  
RTP, Gen. MTL Grid

HAULER

TRANSPORTING COMPANY NAME: <u>Maryland Bros Trucking #49</u>		AUTHORITY PERMIT NUMBER: <u>4A-209</u>
DRIVER'S NAME (PRINT): <u>Tom Veta</u>		TICKET NUMBER:
DRIVERS SIGNATURE: <u>[Signature]</u>		TRAILER NUMBER: <u>AN 36455</u>
DATE OF SHIPMENT OF MATERIAL: <u>7/9/09</u>	COMMENTS:	CONTAINER SIZE / TYPE:

DISPOSAL FACILITY

DISPOSAL FACILITY NAME: <u>OHSWA</u>		DISPOSAL SITE REPRESENTATIVE NAME: <u>Josh Olbrys</u>	
WASTE TYPE RECEIVED:		DATE RECEIVED:	
SCALE TICKET NUMBER: <u>13000</u>	FULL WEIGHT: <u>16,200</u>	EMPTY WEIGHT: <u>3100</u>	NET WEIGHT: <u>35.47</u> <u>7.940</u>
DISPOSAL FACILITY CERTIFICATION:			
SIGNATURE <u>[Signature]</u>		TITLE <u>[Title]</u>	DATE <u>7/9/09</u>
COMMENTS: <u>Site Contact Andy Smith 315-439-0490</u>			

COPY DISTRIBUTION:  
 WHITE COPY - ONEIDA-HERKIMER SOLID WASTE AUTHORITY  
 YELLOW COPY - DISPOSAL FACILITY  
 PINK COPY - GENERATOR/HAULER/TRANSPORTER COPY

# ONEIDA-HERKIMER SOLID WASTE AUTHORITY

## UNIFORM TRACKING DOCUMENT

1600 Genesee Street, Utica, NY 13502

(315) 733-1224

GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: <u>LITTLE FALLS (MILL ST) Non-hazardous Former MEP</u>		DATE: <u>7/9/09</u>	
CONTACT PERSON OR SITE REPRESENTATIVE: <u>Jim Morgan NATL Grid</u>		TITLE: <u>PROJECT MANAGER</u>	
FACILITY LOCATION/MAILING ADDRESS:		TELEPHONE NUMBER: <u>315-428-3101</u>	
WASTE TYPE / PROFILE # <u>ISS SPILLS</u> A: <u>Non-Haz SOIL Rte 28/105 CS0709-03</u>	Estimate Yards <u>2200/347</u>	Container Type <u>DT</u>	Container # A: _____ B: _____

**Certification** - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.

Generators Signature

Title

Date

STAFF SCIENTIST  
RIP GR NATL Grid

7/7/09

HAULER

TRANSPORTING COMPANY NAME: <u>MARGARDI Bros Trucking</u>		AUTHORITY PERMIT NUMBER: <u>4A-209</u>	
DRIVER'S NAME (PRINT): <u>Tom Vito</u>		TICKET NUMBER:	
DRIVERS SIGNATURE: <u>Tom Vito</u>		TRAILER NUMBER: <u>AN 36455</u>	
DATE OF SHIPMENT OF MATERIAL: <u>7/9/09</u>	COMMENTS:	CONTAINER SIZE / TYPE:	

DISPOSAL FACILITY

DISPOSAL FACILITY NAME: <u>OHSWA</u>		DISPOSAL SITE REPRESENTATIVE NAME: <u>Josh OLBREYS</u>	
WASTE TYPE RECEIVED:		DATE RECEIVED:	
SCALE TICKET NUMBER: <u>10044</u>	FULL WEIGHT: <u>10700</u>	EMPTY WEIGHT: <u>3740</u>	NET WEIGHT: <u>33.78</u> <u>6150</u>
DISPOSAL FACILITY CERTIFICATION:			
SIGNATURE <u>[Signature]</u>		TITLE <u>[Signature]</u>	
COMMENTS: <u>Site Contact Andy Enigk</u>		DATE <u>7/9/09</u>	

COPY DISTRIBUTION:  
WHITE COPY - ONEIDA-HERKIMER SOLID WASTE AUTHORITY  
YELLOW COPY - DISPOSAL FACILITY  
PINK COPY - GENERATOR/HAULER/TRANSPORTER COPY

315-439-0490

08

# ONEIDA-HERKIMER SOLID WASTE AUTHORITY UNIFORM TRACKING DOCUMENT

1600 Genesee Street, Utica, NY 13502

(315) 733-1224

GENERATION SITE

FACILITY NAME OR ORIGIN OF MATERIAL/STREET LOCATION: LITTLE FALLS (MILL ST) Non-owned former MGP		DATE: 7/9/09	
CONTACT PERSON OR SITE REPRESENTATIVE: Jim Morgan NATL. Grid		TITLE: PROJECT MANAGER	
FACILITY LOCATION/MAILING ADDRESS: 575 EAST MILL ST LITTLE FALLS NY, 13365		TELEPHONE NUMBER: 315-428-301	
WASTE TYPE / PROFILE # A: Non-haz SOIL PIPEGALITY CS0709-03	Estimate Yards A: 23CY/35T	Container Type A: DT	Container # A: _____
B: _____	B: _____	B: _____	B: _____

**Certification** - I hereby declare that the contents of this consignment are classified as non-hazardous and are in fact sewage sludge, construction and demolition debris or special handling waste as defined in NYCRR Part 364 for which disposal has been approved or which tracking has been requested. The disposal of material has been approved and the tracking is requested by the Oneida - Herkimer Solid Waste Authority. I certify that the above information is true and correct and that if waste shipment is not as I have stated, I will accept the return of the load at my (generator's) expense.

Generators Signature: [Signature] Title: STATE SCIENTIST Date: 7/9/09  
Rep. for: NATL. Grid

HAULER

TRANSPORTING COMPANY NAME: MORGAN/Bras Trucking		AUTHORITY PERMIT NUMBER: 4A-209	
DRIVER'S NAME (PRINT): Tom Vito		TICKET NUMBER:	
DRIVERS SIGNATURE: [Signature]		TRAILER NUMBER: AN36425	
DATE OF SHIPMENT OF MATERIAL: 7/9/09	COMMENTS:	CONTAINER SIZE / TYPE:	

DISPOSAL FACILITY

DISPOSAL FACILITY NAME: OHSWA RLC		DISPOSAL SITE REPRESENTATIVE NAME: Josh OLBRYS	
WASTE TYPE RECEIVED: Soil		DATE RECEIVED:	
SCALE TICKET NUMBER: 135705	FULL WEIGHT: 1115000	EMPTY WEIGHT: 37240	NET WEIGHT: 37.03
DISPOSAL FACILITY CERTIFICATION: [Signature] [Signature] 7-10-09			
SIGNATURE		TITLE	
COMMENTS: Site contact Andy Enigk		315-439-0490	

COPY DISTRIBUTION:  
WHITE COPY - ONEIDA-HERKIMER SOLID WASTE AUTHORITY  
YELLOW COPY - DISPOSAL FACILITY  
PINK COPY - GENERATOR/HAULER/TRANSPORTER COPY

## THIS SHIPPING ORDER

must be legibly filled in, in ink, in indelible Penoil, or in  
Carbon, and retained by the AgentShipper's No. NGC90805(Carrier) INDUSTRIAL OIL TANK SVC. CORP.

SCAC

Carrier's No. 6A-282

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations:

at \_\_\_\_\_, date Aug 5, 2009 from \_\_\_\_\_

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assignee.

TO: (Mail or street address of consignee for purposes of notification only.)

FROM:

Consignee INDUSTRIAL OIL TANK SVC. CORP.Shipper NATIONAL GRIDStreet 120 DRY ROADStreet E. MILL STREETDestination ORISKANY, NY Zip 13424Origin LITTLE FALLS NY Zip \_\_\_\_\_Route: NYR 000005298Delivering Carrier INDUSTRIAL OIL TANK SVC. CORP.Trailer Initial/Number  
VAC 6U.S. DOT Hazmat Reg. Number  
256-099

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
1TT		NONDOT, NONPCRA REGULATED LIQUID (WASTE WATER)	NA	NA	NA	2338	GALS		
		TIME LEFT SHOP: <u>9:00 AM</u>							
		TIME ARRIVED @ SITE: <u>9:45 AM</u>							
		TIME DEPART SITE: <u>10:55 AM</u>							
		TIME ARRIVED @ SHOP: <u>11:55 AM</u>							

Remit C.O.D. to:

Address:

City:

State:

Zip:

COD AMT:

\$

Charges Advanced

\$

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C. O. D. FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES

☐ Prepaid ☐ CollectNote: - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.  
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

NOTE: Liability limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(a)(1)(A) and (B). This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS  
REQUIRED

No.

PLACARDS  
SUPPLIED☐ YES ☐ NO - FURNISHED BY CARRIER  
DRIVER'S SIGNATURE:

SPECIAL INSTRUCTIONS:

SHIPPER: NATIONAL GRID/ROYAL ENVIRONMENTALCARRIER: INDUSTRIAL OIL TANK SVC. CORP.PER: [Signature] DATE: 08/05/09PER: [Signature] DATE: 8-7-09

EMERGENCY RESPONSE

TELEPHONE NUMBER: (315) 736-8000

Permanent post office address of shipper

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.404)

29-BLS-C4 970 (Rev. 11/04)

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.



AN EQUAL OPPORTUNITY EMPLOYER M/F

717-2110 EMO

**JOHN TALARICO CONTRACTING CORP.**  
 5967 STATE ROUTE 5  
 HERKIMER, N.Y. 13350  
 (315) 823-3100

Customer's Order No. Roya Date 7/10/09  
 Name Environmental  
 Address \_\_\_\_\_  
 SOLD BY CASH C.O.D. CHARGE ON ACCT. MDSE. RETD. PAID OUT  

QUAN.	DESCRIPTION	PRICE	AMOUNT
160	ROB		
111			
TAX			
TOTAL			

 0038215 Rec'd by [Signature]

64  
64

09-201-4 PRINTED IN U.S.A.

Thank You



**JOHN TALARICO CONTRACTING CORP.**  
 5967 STATE ROUTE 5  
 HERKIMER, N.Y. 13350  
 (315) 823-3100

Customer's Order No. \_\_\_\_\_ Date 7-9-09  
 Name Royal Environmental  
 Address Little Falls - National Blvd  
 SOLD BY CASH C.O.D. CHARGE ON ACCT. MDSE. RETD. PAID OUT  

QUAN.	DESCRIPTION	PRICE	AMOUNT
250	ROB		
TAX			
TOTAL			

 0038211 Rec'd by Tom Weil

09-201-4 PRINTED IN U.S.A.

Thank You



09-201-4 PRINTED IN U.S.A.

All claims and returned goods MUST be accompanied by this bill.

Thank You



Customer's Order No. \_\_\_\_\_ Date 7-9-09  
 Name Royal Environmental  
 Address Little Falls - National Blvd  
 SOLD BY CASH C.O.D. CHARGE ON ACCT. MDSE. RETD. PAID OUT  

QUAN.	DESCRIPTION	PRICE	AMOUNT
250	ROB		
TAX			
TOTAL			

 0038211 Rec'd by Tom Weil

**JOHN TALARICO CONTRACTING CORP.**  
 5967 STATE ROUTE 5  
 HERKIMER, N.Y. 13350  
 (315) 823-3100

8-2805

84-519

003821  
Rec'd by  
L. J. [Signature]

**All claims and returned goods MUST be accompanied by this bill.**

GS-201-4 PRINTED IN U.S.A.

Thank You



003820 Rec'd by *Tom* *Wahl*

All claims and returned goods MUST be accompanied by this bill.

GS-201-4 PRINTED IN U.S.A.

Thank You



BAR DELIVERED ON 7/10/09 = 4 LADS, 16 CY/LD

# APPENDIX K

Analytical Data for Wastewater Characterization



## Analytical Report

Work Order: RSG0436

### Project Description

National Grid - Little Falls (Mill Street)

For:

Project Manager

**ARCADIS U.S., Inc. - Syracuse, NY**

6723 Towpath Road, PO Box 66

Syracuse, NY 13214-0066



---

Candace Fox

Project Manager

candace.fox@testamericainc.com

Thursday, July 23, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

## TestAmerica Buffalo Current Certifications

**As of 1/27/2009**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	CWA, RCRA, SOIL	88-0686
<b>California*</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida*</b>	NELAP CWA, RCRA	E87672
<b>Georgia*</b>	SDWA, NELAP CWA, RCRA	956
<b>Illinois*</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas*</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana*</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY0044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire*</b>	NELAP SDWA, CWA	233701
<b>New Jersey*</b>	NELAP, SDWA, CWA, RCRA,	NY455
<b>New York*</b>	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania*</b>	NELAP CWA, RCRA	68-00281
<b>Tennessee</b>	SDWA	02970
<b>Texas*</b>	NELAP CWA, RCRA	T10470441208-TX
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington*</b>	NELAP CWA, RCRA	C1677
<b>Wisconsin</b>	CWA, RCRA	998310390
<b>West Virginia</b>	CWA, RCRA	252

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

---

Received: 07/14/09

Reported: 07/23/09 11:48

### **Case Narrative**

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 07/14/09  
Reported: 07/23/09 11:48

#### DATA QUALIFIERS AND DEFINITIONS

>	Result is greater than the indicated value.
A-01	Sample was neutralized prior to extraction. JB 7/14/09
B	Analyte was detected in the associated Method Blank.
D08	Dilution required due to high concentration of target analyte(s)
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L5	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
QSU	Sulfur (EPA 3660) clean-up performed on extract.
Z1	Surrogate recovery was above acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.



ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
---------	---------------	-----------------	----	-----	-------	---------	---------------	----------	-------	--------

Sample ID: RSG0436-01 (WC-3 - Water)

Sampled: 07/13/09 13:30

Recvd: 07/14/09 09:00

#### General Chemistry Parameters

pH	12.1	HFT	NR	0.00	SU	1.00	07/14/09 23:35	JME	9G14107	9040
Flashpoint	>176		50.0	50.0	°F	1.00	07/16/09 15:29	RJP	9G16087	1010

#### Semivolatile Organics by GC/MS

2,4-Dimethylphenol	13		4.8	0.92	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Methylnaphthalene	110		4.8	0.078	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Methylphenol	2.4	J	4.8	0.22	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acenaphthene	14		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acenaphthylene	46		4.8	0.045	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acetophenone	5.9		4.8	0.97	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Anthracene	9.0		4.8	0.053	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[a]anthracene	1.6	J	4.8	0.061	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[a]pyrene	0.66	J	4.8	0.087	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[b]fluoranthene	1.1	J	4.8	0.060	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Biphenyl	8.2		4.8	0.62	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Carbazole	38		4.8	0.085	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Chrysene	1.4	J	4.8	0.26	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Cresol(s)	7.4	J	19	1.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dibenzofuran	20		9.5	1.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Fluoranthene	7.5		4.8	0.093	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Fluorene	27		4.8	0.070	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Indeno[1,2,3-cd]pyrene	0.26	J	4.8	0.15	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Naphthalene	430		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phenanthrene	50		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phenol	5.3		4.8	0.42	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pyrene	7.1		4.8	0.065	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C

#### Total Metals by SW 846 Series Methods

Aluminum	0.538	B	0.200	0.040	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Barium	0.218		0.0020	0.0003	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Beryllium	0.0006	J, B	0.0020	0.0002	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Cadmium	0.0003	J	0.0010	0.0003	mg/L	1.00	07/17/09 13:14	LMH	9G14063	6010B
Calcium	240	B	0.5	0.1	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Chromium	0.0885		0.0040	0.0009	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Cobalt	0.0007	J	0.0040	0.0005	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Copper	0.0279		0.0100	0.0013	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Iron	0.081		0.050	0.019	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Lead	0.0045	J	0.0050	0.0029	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Manganese	0.0004	J, B	0.0030	0.0002	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Nickel	0.0284		0.0100	0.0013	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Potassium	144	B	0.500	0.050	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Silver	0.0015	J, B	0.0030	0.0012	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Sodium	55.6	B	1.0	0.3	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Vanadium	0.0013	J	0.0050	0.0011	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Zinc	0.0039	J	0.0100	0.0015	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B

#### Volatile Organic Compounds by EPA 8260B

2-Butanone (MEK)	11		5.0	1.3	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSG0436-01 (WC-3 - Water) - cont.

Sampled: 07/13/09 13:30

Recvd: 07/14/09 09:00

#### Volatile Organic Compounds by EPA 8260B - cont.

Acetone	81		5.0	1.3	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Benzene	55		1.0	0.41	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chloroform	4.1		1.0	0.34	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Ethylbenzene	10		1.0	0.18	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Isopropylbenzene	1.8		1.0	0.19	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Styrene	21		1.0	0.18	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Toluene	76		1.0	0.51	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Xylenes, total	100		2.0	0.66	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B

Sample ID: RSG0436-01RE1 (WC-3 - Water)

Sampled: 07/13/09 13:30

Recvd: 07/14/09 09:00

#### Semivolatile Organics by GC/MS

2-Methylnaphthalene	90	D08	48	0.78	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Acenaphthene	11	D08,J	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Acenaphthylene	34	D08,J	48	0.45	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Anthracene	6.9	D08,J	48	0.53	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Biphenyl	7.8	D08,J	48	6.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Carbazole	29	D08,J	48	0.85	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dibenzofuran	16	D08,J	95	15	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Diethyl phthalate	6.4	D08,J, B	48	1.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Di-n-butyl phthalate	28	D08,J, B	48	2.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Fluoranthene	6.5	D08,J	48	0.93	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Fluorene	22	D08,J	48	0.70	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Naphthalene	350	D08	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phenanthrene	43	D08,J	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pyrene	6.3	D08,J	48	0.65	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C

Sample ID: RSG0436-02 (TRIP BLANK - Water)

Sampled: 07/13/09

Recvd: 07/14/09 09:00

#### Volatile Organic Compounds by EPA 8260B

2-Butanone (MEK)	4.7	J	5.0	1.3	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Acetone	4.6	J	5.0	1.3	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 07/14/09  
Reported: 07/23/09 11:48

### Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
WC-3	RSG0436-01	Water	07/13/09 13:30	07/14/09 09:00	
TRIP BLANK	RSG0436-02	Water	07/13/09	07/14/09 09:00	

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSG0436-01 (WC-3 - Water)

Sampled: 07/13/09 13:30

Recvd: 07/14/09 09:00

### General Chemistry Parameters

pH	12.1	HFT	NA	0.00	SU	1.00	07/14/09 23:35	JME	9G14107	9040
Flashpoint	>176		50.0	50.0	°F	1.00	07/16/09 15:29	RJP	9G16087	1010

### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	A-01	0.47	0.17	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1221	ND	A-01	0.47	0.17	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1232	ND	A-01	0.47	0.17	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1242	ND	A-01	0.47	0.17	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1248	ND	A-01	0.47	0.17	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1254	ND	A-01	0.47	0.24	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082
Aroclor 1260	ND	A-01	0.47	0.24	ug/L	1.00	07/15/09 07:04	JM	9G14064	8082

Decachlorobiphenyl	82 %	A-01	Surr Limits: (12-137%)				07/15/09 07:04	JM	9G14064	8082
Tetrachloro-m-xylene	76 %	A-01	Surr Limits: (35-121%)				07/15/09 07:04	JM	9G14064	8082

### Semivolatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	ND		4.8	0.78	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,2,4-Trichlorobenzene	ND		9.5	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,2-Dichlorobenzene	ND		9.5	1.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,2-Diphenylhydrazine	ND		9.5	0.28	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,3,5-Trinitrobenzene	ND		9.5	0.39	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,3-Dichlorobenzene	ND		9.5	0.13	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,3-Dinitrobenzene	ND		19	0.31	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,4-Dichlorobenzene	ND		9.5	0.15	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,4-Dinitrobenzene	ND		9.5	0.53	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,4-Dioxane	ND		9.5	0.60	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1,4-Naphthoquinone	ND		9.5	0.23	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
1-Naphthylamine	ND		9.5	2.2	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,3,4,6-Tetrachlorophenol	ND		4.8	2.0	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4,5-Trichlorophenol	ND		4.8	0.94	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4,6-Trichlorophenol	ND		4.8	0.95	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4-Dichlorophenol	ND		4.8	0.75	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4-Dimethylphenol	13		4.8	0.92	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4-Dinitrophenol	ND		9.5	2.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,4-Dinitrotoluene	ND		4.8	0.43	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,6-Dichlorophenol	ND		9.5	0.65	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,6-Dichloropyridine	ND		9.5	2.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2,6-Dinitrotoluene	ND		4.8	0.49	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Acetylaminofluorene	ND		9.5	0.56	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Chloronaphthalene	ND		4.8	0.080	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Chlorophenol	ND		4.8	0.48	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Chloropyridine	ND		9.5	2.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Methylnaphthalene	110		4.8	0.078	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Methylphenol	2.4	J	4.8	0.22	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Naphthylamine	ND		9.5	0.63	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Nitroaniline	ND		9.5	0.47	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Nitrophenol	ND		4.8	0.57	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Picoline	ND		76	0.43	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
2-Toluidine	ND		9.5	1.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
3 & 4 Methylphenol	ND		9.5	0.55	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
3,3'-Dichlorobenzidine	ND		4.8	0.36	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
3,3'-Dimethylbenzidine	ND		38	1.2	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
3-Chloropyridine	ND		9.5	1.3	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
3-Methylcholanthrene	ND		9.5	0.85	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
3-Nitroaniline	ND		9.5	1.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4,6-Dinitro-2-methylphenol	ND		9.5	2.2	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Aminobiphenyl	ND		9.5	0.46	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Bromophenyl phenyl ether	ND		4.8	0.86	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Chloro-3-methylphenol	ND		4.8	0.57	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Chloroaniline	ND		4.8	0.31	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Chlorophenyl phenyl ether	ND		4.8	0.16	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Chloropyridine	ND		9.5	1.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Nitroaniline	ND		9.5	0.43	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Nitrophenol	ND		9.5	1.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
4-Nitroquinoline-1-oxide	ND		9.5	0.56	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
7,12-Dimethylbenz[a]anthracene	ND		9.5	0.50	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
a,a-Dimethylphenethylamine	ND		95	0.47	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acenaphthene	14		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acenaphthylene	46		4.8	0.045	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Acetophenone	5.9		4.8	0.97	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Alachlor	ND		9.5	0.60	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Alpha-Terpineol	ND		9.5	1.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Aniline	ND		9.5	0.67	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Anthracene	9.0		4.8	0.053	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Aramite	ND		19	0.55	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Atrazine	ND		4.8	1.0	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzaldehyde	ND		4.8	0.25	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzidine	ND		76	2.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[a]anthracene	1.6	J	4.8	0.061	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[a]pyrene	0.66	J	4.8	0.087	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[b]fluoranthene	1.1	J	4.8	0.060	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[g,h,i]perylene	ND		4.8	0.074	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzo[k]fluoranthene	ND		4.8	0.063	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzoic acid	ND		140	95	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Benzyl alcohol	ND		19	0.28	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Biphenyl	8.2		4.8	0.62	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Bis(2-chloroethoxy)methane	ND		4.8	0.36	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Bis(2-chloroethyl)ether	ND		4.8	0.17	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Bis(2-chloroisopropyl) ether	ND		3.8	3.8	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Bis(2-ethylhexyl) phthalate	ND		4.8	4.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Butyl benzyl phthalate	ND		4.8	1.7	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Caprolactam	ND		4.8	4.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Carbazole	38		4.8	0.085	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Chlorobenzilate	ND		19	0.48	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C

TestAmerica Buffalo

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Page 9 of 47

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Chrysene	1.4	J	4.8	0.26	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Cresol(s)	7.4	J	19	1.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Diallate	ND		9.5	0.25	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dibenz[a,h]anthracene	ND		4.8	0.19	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dibenzo[a,e]pyrene	ND		9.5	2.9	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dibenzofuran	20		9.5	1.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Diethyl phthalate	ND		4.8	0.10	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dimethoate	ND		9.5	0.33	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dimethyl phthalate	ND		4.8	0.29	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Di-n-butyl phthalate	ND		4.8	0.28	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Di-n-octyl phthalate	ND		4.8	0.23	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Dinoseb	ND		9.5	2.8	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Diphenylamine	ND		9.5	0.49	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Disulfoton	ND		9.5	0.36	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Ethyl Methanesulfonate	ND		9.5	1.3	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Famphur	ND		38	0.88	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Fluoranthene	7.5		4.8	0.093	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Fluorene	27		4.8	0.070	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachlorobenzene	ND		4.8	0.42	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachlorobutadiene	ND		4.8	2.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachlorocyclopentadiene	ND		4.8	2.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachloroethane	ND		4.8	2.7	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachlorophene	ND		300	120	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Hexachloropropene	ND		9.5	0.56	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Indeno[1,2,3-cd]pyrene	0.26	J	4.8	0.15	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Isodrin	ND		9.5	0.89	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Isophorone	ND		4.8	0.30	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Isosafrole	ND		9.5	0.77	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Kepone	ND		48	1.4	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Methapyrilene	ND		48	32	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Methyl Methanesulfonate	ND		9.5	3.0	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N,N-Dimethyl Formamide	ND		19	1.6	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Naphthalene	430		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Nitrobenzene	ND		4.8	0.51	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitro-o-toluidine	ND		9.5	0.62	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosodiethylamine	ND		9.5	0.91	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosodimethylamine	ND		9.5	0.95	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosodi-n-butylamine	ND		9.5	0.72	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosodi-n-propylamine	ND		4.8	0.43	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosodiphenylamine	ND		4.8	0.25	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosomethylethylamine	ND		9.5	0.91	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosomorpholine	ND		9.5	0.79	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosopiperidine	ND		9.5	1.3	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
N-Nitrosopyrrolidine	ND		9.5	0.71	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
O,O,O-Triethyl phosphorothioate	ND		9.5	0.32	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Parathion-ethyl	ND		9.5	0.26	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Parathion-methyl	ND		9.5	0.35	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSG0436-01 (WC-3 - Water) - cont.

Sampled: 07/13/09 13:30

Recvd: 07/14/09 09:00

### Semivolatile Organics by GC/MS - cont.

p-Dimethylamino azobenzene	ND		9.5	0.96	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pentachlorobenzene	ND		9.5	1.1	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pentachloroethane	ND		9.5	2.8	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pentachloronitrobenzene	ND		9.5	0.98	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pentachlorophenol	ND		9.5	4.9	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
p-Fluoroaniline	ND		9.5	0.80	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phenacetin	ND		9.5	0.79	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phenanthrene	50		4.8	0.11	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phenol	5.3		4.8	0.42	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phorate	ND		9.5	1.9	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Phthalic anhydride	ND		480	53	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
p-Phenylene diamine	ND		760	190	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pronamide	ND		9.5	0.22	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pyrene	7.1		4.8	0.065	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Pyridine	ND		24	1.5	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Quinoline	ND		9.5	1.7	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Safrole	ND		9.5	0.52	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Simazine	ND		9.5	0.65	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Sulfotepp	ND		9.5	0.33	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Tetraethyl lead	ND		9.5	1.9	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Thionazin	ND		9.5	0.29	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Tributyl phosphate	ND		9.5	0.32	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C
Tricresylphosphate	ND		9.5	1.7	ug/L	1.00	07/21/09 18:41	JLG	9G14100	8270C

2,4,6-Tribromophenol	126 %		Surr Limits: (52-132%)				07/21/09 18:41	JLG	9G14100	8270C
2-Fluorobiphenyl	95 %		Surr Limits: (48-120%)				07/21/09 18:41	JLG	9G14100	8270C
2-Fluorophenol	43 %		Surr Limits: (20-120%)				07/21/09 18:41	JLG	9G14100	8270C
Nitrobenzene-d5	92 %		Surr Limits: (46-120%)				07/21/09 18:41	JLG	9G14100	8270C
Phenol-d5	30 %		Surr Limits: (16-120%)				07/21/09 18:41	JLG	9G14100	8270C
p-Terphenyl-d14	89 %		Surr Limits: (24-136%)				07/21/09 18:41	JLG	9G14100	8270C

### Total Metals by SW 846 Series Methods

Aluminum	0.538	B	0.200	0.040	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Antimony	ND		0.0200	0.0055	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Barium	0.218		0.0020	0.0003	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Beryllium	0.0006	J, B	0.0020	0.0002	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Cadmium	0.0003	J	0.0010	0.0003	mg/L	1.00	07/17/09 13:14	LMH	9G14063	6010B
Calcium	240	B	0.5	0.1	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Chromium	0.0885		0.0040	0.0009	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Cobalt	0.0007	J	0.0040	0.0005	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Copper	0.0279		0.0100	0.0013	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Iron	0.081		0.050	0.019	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Lead	0.0045	J	0.0050	0.0029	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Magnesium	ND		0.200	0.043	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Manganese	0.0004	J, B	0.0030	0.0002	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Nickel	0.0284		0.0100	0.0013	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Potassium	144	B	0.500	0.050	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Silver	0.0015	J, B	0.0030	0.0012	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Total Metals by SW 846 Series Methods - cont.</u>										
Sodium	55.6	B	1.0	0.3	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Thallium	ND		0.0200	0.0077	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Vanadium	0.0013	J	0.0050	0.0011	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Zinc	0.0039	J	0.0100	0.0015	mg/L	1.00	07/15/09 19:31	LMH	9G14063	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	07/15/09 13:51	MLD	9G14095	7470A
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
2-Butanone (MEK)	11		5.0	1.3	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Acetone	81		5.0	1.3	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Benzene	55		1.0	0.41	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chloroform	4.1		1.0	0.34	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Ethylbenzene	10		1.0	0.18	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Isopropylbenzene	1.8		1.0	0.19	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Styrene	21		1.0	0.18	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Toluene	76		1.0	0.51	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
Xylenes, total	100		2.0	0.66	ug/L	1.00	07/20/09 15:27	RJ	9G20020	8260B
1,2-Dichloroethane-d4	101 %		Surr Limits: (66-137%)				07/20/09 15:27	RJ	9G20020	8260B
4-Bromofluorobenzene	94 %		Surr Limits: (73-120%)				07/20/09 15:27	RJ	9G20020	8260B
Toluene-d8	97 %		Surr Limits: (71-126%)				07/20/09 15:27	RJ	9G20020	8260B

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01RE1 (WC-3 - Water)						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS</u>										
1,2,4,5-Tetrachlorobenzene	ND	D08	48	7.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,2,4-Trichlorobenzene	ND	D08	95	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,2-Dichlorobenzene	ND	D08	95	14	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,2-Diphenylhydrazine	ND	D08	95	2.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,3,5-Trinitrobenzene	ND	D08	95	3.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,3-Dichlorobenzene	ND	D08	95	1.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,3-Dinitrobenzene	ND	D08	190	3.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,4-Dichlorobenzene	ND	D08	95	1.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,4-Dinitrobenzene	ND	D08	95	5.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,4-Dioxane	ND	D08	95	6.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1,4-Naphthoquinone	ND	D08	95	2.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
1-Naphthylamine	ND	D08	95	22	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,3,4,6-Tetrachlorophenol	ND	D08	48	20	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4,5-Trichlorophenol	ND	D08	48	9.4	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4,6-Trichlorophenol	ND	D08	48	9.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4-Dichlorophenol	ND	D08	48	7.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4-Dimethylphenol	ND	D08	48	9.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4-Dinitrophenol	ND	D08	95	21	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4-Dinitrotoluene	ND	D08	48	4.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,6-Dichlorophenol	ND	D08	95	6.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,6-Dichloropyridine	ND	D08	95	24	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,6-Dinitrotoluene	ND	D08	48	4.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Acetylaminofluorene	ND	D08	95	5.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Chloronaphthalene	ND	D08	48	0.80	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Chlorophenol	ND	D08	48	4.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Chloropyridine	ND	D08	95	21	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Methylnaphthalene	90	D08	48	0.78	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Methylphenol	ND	D08	48	2.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Naphthylamine	ND	D08	95	6.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Nitroaniline	ND	D08	95	4.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Nitrophenol	ND	D08	48	5.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Picoline	ND	D08	760	4.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2-Toluidine	ND	D08	95	14	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3 & 4 Methylphenol	ND	D08	95	5.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3,3'-Dichlorobenzidine	ND	D08	48	3.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3,3'-Dimethylbenzidine	ND	D08	380	12	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3-Chloropyridine	ND	D08	95	13	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3-Methylcholanthrene	ND	D08	95	8.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
3-Nitroaniline	ND	D08	95	15	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4,6-Dinitro-2-methylphenol	ND	D08	95	22	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Aminobiphenyl	ND	D08	95	4.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Bromophenyl phenyl ether	ND	D08	48	8.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Chloro-3-methylphenol	ND	D08	48	5.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Chloroaniline	ND	D08	48	3.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Chlorophenyl phenyl ether	ND	D08	48	1.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Chloropyridine	ND	D08	95	11	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Nitroaniline	ND	D08	95	4.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
4-Nitrophenol	ND	D08	95	14	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01RE1 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
4-Nitroquinoline-1-oxide	ND	D08	95	5.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
7,12-Dimethylbenz[a]anthracene	ND	D08	95	5.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
a,a-Dimethylphenethylamine	ND	D08	950	4.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Acenaphthene	11	D08,J	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Acenaphthylene	34	D08,J	48	0.45	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Acetophenone	ND	D08	48	9.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Alachlor	ND	D08	95	6.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Alpha-Terpineol	ND	D08	95	14	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Aniline	ND	D08	95	6.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Anthracene	6.9	D08,J	48	0.53	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Aramite	ND	D08	190	5.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Atrazine	ND	D08	48	10	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzaldehyde	ND	D08	48	2.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzidine	ND	D08	760	21	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzo[a]anthracene	ND	D08	48	0.61	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzo[a]pyrene	ND	D08	48	0.87	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzo[b]fluoranthene	ND	D08	48	0.60	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzo[g,h,i]perylene	ND	D08	48	0.74	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzo[k]fluoranthene	ND	D08	48	0.63	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzoic acid	ND	D08	1400	950	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Benzyl alcohol	ND	D08	190	2.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Biphenyl	7.8	D08,J	48	6.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Bis(2-chloroethoxy)methane	ND	D08	48	3.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Bis(2-chloroethyl)ether	ND	D08	48	1.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Bis(2-chloroisopropyl)ether	ND	D08	38	38	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Bis(2-ethylhexyl)phthalate	ND	D08	48	45	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Butyl benzyl phthalate	ND	D08	48	17	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Caprolactam	ND	D08	48	44	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Carbazole	29	D08,J	48	0.85	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Chlorobenzilate	ND	D08	190	4.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Chrysene	ND	D08	48	2.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Cresol(s)	ND	D08	190	11	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Diallate	ND	D08	95	2.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dibenz[a,h]anthracene	ND	D08	48	1.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dibenzo[a,e]pyrene	ND	D08	95	29	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dibenzofuran	16	D08,J	95	15	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Diethyl phthalate	6.4	D08,J, B	48	1.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dimethoate	ND	D08	95	3.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dimethyl phthalate	ND	D08	48	2.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Di-n-butyl phthalate	28	D08,J, B	48	2.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Di-n-octyl phthalate	ND	D08	48	2.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Dinoseb	ND	D08	95	28	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Diphenylamine	ND	D08	95	4.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Disulfoton	ND	D08	95	3.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Ethyl Methanesulfonate	ND	D08	95	13	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Famphur	ND	D08	380	8.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C

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6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01RE1 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Fluoranthene	6.5	D08,J	48	0.93	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Fluorene	22	D08,J	48	0.70	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachlorobenzene	ND	D08	48	4.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachlorobutadiene	ND	D08	48	25	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachlorocyclopentadiene	ND	D08	48	24	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachloroethane	ND	D08	48	27	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachlorophene	ND	D08	3000	1200	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Hexachloropropene	ND	D08	95	5.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Indeno[1,2,3-cd]pyrene	ND	D08	48	1.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Isodrin	ND	D08	95	8.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Isophorone	ND	D08	48	3.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Isosafrole	ND	D08	95	7.7	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Kepone	ND	D08	480	14	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Methapyrilene	ND	D08	480	320	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Methyl Methanesulfonate	ND	D08	95	30	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N,N-Dimethyl Formamide	ND	D08	190	16	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Naphthalene	350	D08	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Nitrobenzene	ND	D08	48	5.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitro-o-toluidine	ND	D08	95	6.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosodiethylamine	ND	D08	95	9.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosodimethylamine	ND	D08	95	9.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosodi-n-butylamine	ND	D08	95	7.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosodi-n-propylamine	ND	D08	48	4.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosodiphenylamine	ND	D08	48	2.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosomethylethylamine	ND	D08	95	9.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosomorpholine	ND	D08	95	7.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosopiperidine	ND	D08	95	13	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
N-Nitrosopyrrolidine	ND	D08	95	7.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
O,O,O-Triethyl phosphorothioate	ND	D08	95	3.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Parathion-ethyl	ND	D08	95	2.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Parathion-methyl	ND	D08	95	3.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
p-Dimethylamino azobenzene	ND	D08	95	9.6	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pentachlorobenzene	ND	D08	95	11	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pentachloroethane	ND	D08	95	28	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pentachloronitrobenzene	ND	D08	95	9.8	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pentachlorophenol	ND	D08	95	49	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
p-Fluoroaniline	ND	D08	95	8.0	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phenacetin	ND	D08	95	7.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phenanthrene	43	D08,J	48	1.1	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phenol	ND	D08	48	4.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phorate	ND	D08	95	19	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Phthalic anhydride	ND	D08	4800	530	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
p-Phenylene diamine	ND	D08	7600	1900	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pronamide	ND	D08	95	2.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pyrene	6.3	D08,J	48	0.65	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Pyridine	ND	D08	240	15	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C

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Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-01RE1 (WC-3 - Water) - cont.						Sampled: 07/13/09 13:30		Recvd: 07/14/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Quinoline	ND	D08	95	17	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Safrole	ND	D08	95	5.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Simazine	ND	D08	95	6.5	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Sulfotepp	ND	D08	95	3.3	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Tetraethyl lead	ND	D08	95	19	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Thionazin	ND	D08	95	2.9	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Tributyl phosphate	ND	D08	95	3.2	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
Tricresylphosphate	ND	D08	95	17	ug/L	10.0	07/22/09 12:25	JLG	9G14100	8270C
2,4,6-Tribromophenol	107 %	D08	Surr Limits: (52-132%)				07/22/09 12:25	JLG	9G14100	8270C
2-Fluorobiphenyl	83 %	D08	Surr Limits: (48-120%)				07/22/09 12:25	JLG	9G14100	8270C
2-Fluorophenol	34 %	D08	Surr Limits: (20-120%)				07/22/09 12:25	JLG	9G14100	8270C
Nitrobenzene-d5	75 %	D08	Surr Limits: (46-120%)				07/22/09 12:25	JLG	9G14100	8270C
Phenol-d5	23 %	D08	Surr Limits: (16-120%)				07/22/09 12:25	JLG	9G14100	8270C
p-Terphenyl-d14	72 %	D08	Surr Limits: (24-136%)				07/22/09 12:25	JLG	9G14100	8270C

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

## Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-02 (TRIP BLANK - Water)						Sampled: 07/13/09		Recvd: 07/14/09 09:00		
<u>Volatile Organic Compounds by EPA 8260B</u>										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
2-Butanone (MEK)	4.7	J	5.0	1.3	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Acetone	4.6	J	5.0	1.3	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 07/14/09  
Reported: 07/23/09 11:48

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSG0436-02 (TRIP BLANK - Water) - cont.						Sampled: 07/13/09		Recvd: 07/14/09 09:00		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	07/19/09 18:56	MF	9G19002	8260B
1,2-Dichloroethane-d4	105 %		Surr Limits: (66-137%)				07/19/09 18:56	MF	9G19002	8260B
4-Bromofluorobenzene	95 %		Surr Limits: (73-120%)				07/19/09 18:56	MF	9G19002	8260B
Toluene-d8	100 %		Surr Limits: (71-126%)				07/19/09 18:56	MF	9G19002	8260B

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### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
1010	9G16087	RSG0436-01	50.00	mL	50.00	mL	07/16/09 15:29	RJP	No Prep Flashpoint
9040	9G14107	RSG0436-01	50.00	mL	50.00	mL	07/14/09 23:35	JME	No prep pH
Polychlorinated Biphenyls by EPA Method 8082									
8082	9G14064	RSG0436-01	1,055.00	mL	10.00	mL	07/14/09 14:00	LT	3510C GC
Semivolatile Organics by GC/MS									
8270C	9G14100	RSG0436-01	1,050.00	mL	1.00	mL	07/15/09 08:00	KB	3510C MB
8270C	9G14100	RSG0436-01RE	1,050.00	mL	1.00	mL	07/15/09 08:00	KB	3510C MB
Total Metals by SW 846 Series Methods									
6010B	9G14063	RSG0436-01	50.00	mL	50.00	mL	07/15/09 09:20	KCW	3005A
7470A	9G14095	RSG0436-01	30.00	mL	50.00	mL	07/15/09 10:45	MM	7470A
Volatile Organic Compounds by EPA 8260B									
8260B	9G19002	RSG0436-02	5.00	mL	5.00	mL	07/19/09 11:08	TRB	5030B MS
8260B	9G20020	RSG0436-01	5.00	mL	5.00	mL	07/20/09 09:51	TRB	5030B MS



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### General Chemistry Parameters

LCS Analyzed: 07/14/09 (Lab Number:9G14107-BS1, Batch: 9G14107)

pH	7.00	NA	0.00	SU	7.00	100	99.3-100.8
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#### General Chemistry Parameters

Reference Analyzed: 07/16/09 (Lab Number:9G16087-SRM1, Batch: 9G16087)

Flashpoint	134	50.0	50.0	°F	139	104	88-111
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Polychlorinated Biphenyls by EPA Method 8082

#### Blank Analyzed: 07/15/09 (Lab Number:9G14064-BLK1, Batch: 9G14064)

Aroclor 1016			0.50	0.18	ug/L	ND					QSU
Aroclor 1016 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1221			0.50	0.18	ug/L	ND					
Aroclor 1221 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1232			0.50	0.18	ug/L	ND					
Aroclor 1232 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1242			0.50	0.18	ug/L	ND					
Aroclor 1242 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1248			0.50	0.18	ug/L	ND					
Aroclor 1248 [2C]			0.50	0.18	ug/L	ND					
Aroclor 1254			0.50	0.25	ug/L	ND					
Aroclor 1254 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1260			0.50	0.25	ug/L	ND					
Aroclor 1260 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1262			0.50	0.25	ug/L	ND					
Aroclor 1262 [2C]			0.50	0.25	ug/L	ND					
Aroclor 1268			0.50	0.25	ug/L	ND					
Aroclor 1268 [2C]			0.50	0.25	ug/L	ND					

Surrogate:					ug/L		83	12-137			
Decachlorobiphenyl											
Surrogate:					ug/L		68	12-137			
Decachlorobiphenyl [2C]											
Surrogate:					ug/L		84	35-121			
Tetrachloro-m-xylene											
Surrogate:					ug/L		74	35-121			
Tetrachloro-m-xylene											

#### LCS Analyzed: 07/15/09 (Lab Number:9G14064-BS1, Batch: 9G14064)

Aroclor 1016	5.0		0.50	0.18	ug/L	4.78	96	61-123			QSU
Aroclor 1016 [2C]	5.0		0.50	0.18	ug/L	3.52	70	61-123			
Aroclor 1221			0.50	0.18	ug/L	ND		0-200			
Aroclor 1221 [2C]			0.50	0.18	ug/L	ND		0-200			
Aroclor 1232			0.50	0.18	ug/L	ND		0-200			
Aroclor 1232 [2C]			0.50	0.18	ug/L	ND		0-200			
Aroclor 1242			0.50	0.18	ug/L	ND		0-200			
Aroclor 1242 [2C]			0.50	0.18	ug/L	ND		0-200			
Aroclor 1248			0.50	0.18	ug/L	ND		0-200			
Aroclor 1248 [2C]			0.50	0.18	ug/L	ND		0-200			
Aroclor 1254			0.50	0.25	ug/L	ND		0-200			
Aroclor 1254 [2C]			0.50	0.25	ug/L	ND		0-200			

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# LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Polychlorinated Biphenyls by EPA Method 8082</b>											
<b>LCS Analyzed: 07/15/09 (Lab Number:9G14064-BS1, Batch: 9G14064)</b>											
Aroclor 1260		5.0	0.50	0.25	ug/L	5.39	108	52-128			
Aroclor 1260 [2C]		5.0	0.50	0.25	ug/L	4.11	82	52-128			
Aroclor 1262			0.50	0.25	ug/L	ND		0-200			
Aroclor 1262 [2C]			0.50	0.25	ug/L	ND		0-200			
Aroclor 1268			0.50	0.25	ug/L	ND		0-200			
Aroclor 1268 [2C]			0.50	0.25	ug/L	ND		0-200			
Surrogate:					ug/L		80	12-137			
Decachlorobiphenyl					ug/L		65	12-137			
Surrogate:					ug/L		96	35-121			
Decachlorobiphenyl [2C]					ug/L		77	35-121			
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						
<b>LCS Dup Analyzed: 07/15/09 (Lab Number:9G14064-BSD1, Batch: 9G14064)</b>											
Aroclor 1016		5.0	0.50	0.18	ug/L	4.54	91	61-123	5	50	QSU
Aroclor 1016 [2C]		5.0	0.50	0.18	ug/L	3.62	72	61-123	3	50	
Aroclor 1221			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1221 [2C]			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1232			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1232 [2C]			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1242			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1242 [2C]			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1248			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1248 [2C]			0.50	0.18	ug/L	ND		0-200		200	
Aroclor 1254			0.50	0.25	ug/L	ND		0-200		200	
Aroclor 1254 [2C]			0.50	0.25	ug/L	ND		0-200		200	
Aroclor 1260		5.0	0.50	0.25	ug/L	5.17	103	52-128	4	50	
Aroclor 1260 [2C]		5.0	0.50	0.25	ug/L	4.06	81	52-128	1	50	
Aroclor 1262			0.50	0.25	ug/L	ND		0-200		200	
Aroclor 1262 [2C]			0.50	0.25	ug/L	ND		0-200		200	
Aroclor 1268			0.50	0.25	ug/L	ND		0-200		200	
Aroclor 1268 [2C]			0.50	0.25	ug/L	ND		0-200		200	
Surrogate:					ug/L		75	12-137			
Decachlorobiphenyl					ug/L		60	12-137			
Surrogate:					ug/L		90	35-121			
Decachlorobiphenyl [2C]					ug/L		72	35-121			
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						
Surrogate:					ug/L						
Tetrachloro-m-xylene					ug/L						

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Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
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Work Order: RSG0436

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 07/21/09 (Lab Number:9G14100-BLK1, Batch: 9G14100)</b>											
1,2,4,5-Tetrachlorobenzene			5.0	0.82	ug/L	ND					
1,2,4-Trichlorobenzene			10	0.11	ug/L	ND					
1,2-Dichlorobenzene			10	1.5	ug/L	ND					
1,2-Diphenylhydrazine			10	0.30	ug/L	ND					
1,3,5-Trinitrobenzene			10	0.41	ug/L	ND					
1,3-Dichlorobenzene			10	0.14	ug/L	ND					
1,3-Dinitrobenzene			10	0.33	ug/L	ND					
1,4-Dichlorobenzene			10	0.16	ug/L	ND					
1,4-Dinitrobenzene			10	0.56	ug/L	ND					
1,4-Dioxane			10	0.63	ug/L	ND					
1,4-Naphthoquinone			10	0.24	ug/L	ND					
1-Naphthylamine			10	2.3	ug/L	ND					
2,3,4,6-Tetrachlorophenol			5.0	2.1	ug/L	ND					
2,4,5-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4,6-Trichlorophenol			5.0	0.99	ug/L	ND					
2,4-Dichlorophenol			5.0	0.79	ug/L	ND					
2,4-Dimethylphenol			5.0	0.96	ug/L	ND					
2,4-Dinitrophenol			10	2.2	ug/L	ND					
2,4-Dinitrotoluene			5.0	0.45	ug/L	ND					
2,6-Dichlorophenol			10	0.69	ug/L	ND					
2,6-Dichloropyridine			10	2.6	ug/L	ND					
2,6-Dinitrotoluene			5.0	0.51	ug/L	ND					
2-Acetylaminofluorene			10	0.58	ug/L	ND					
2-Chloronaphthalene			5.0	0.084	ug/L	ND					
2-Chlorophenol			5.0	0.50	ug/L	ND					
2-Chloropyridine			10	2.2	ug/L	ND					
2-Methylnaphthalene			5.0	0.082	ug/L	ND					
2-Methylphenol			5.0	0.23	ug/L	ND					
2-Naphthylamine			10	0.66	ug/L	ND					
2-Nitroaniline			10	0.50	ug/L	ND					
2-Nitrophenol			5.0	0.60	ug/L	ND					
2-Picoline			20	0.45	ug/L	ND					
2-Toluidine			10	1.5	ug/L	ND					
3 & 4 Methylphenol			10	0.58	ug/L	ND					
3,3'-Dichlorobenzidine			5.0	0.37	ug/L	ND					
3,3'-Dimethylbenzidine			40	1.2	ug/L	ND					
3-Chloropyridine			10	1.4	ug/L	ND					

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 07/21/09 (Lab Number:9G14100-BLK1, Batch: 9G14100)</b>											
3-Methylcholanthrene			10	0.90	ug/L	ND					
3-Methylphenol			10	0.58	ug/L	ND					
3-Nitroaniline			10	1.6	ug/L	ND					
4,6-Dinitro-2-methylphenol			10	2.3	ug/L	ND					
4-Aminobiphenyl			10	0.48	ug/L	ND					
4-Bromophenyl phenyl ether			5.0	0.90	ug/L	ND					
4-Chloro-3-methylphenol			5.0	0.60	ug/L	ND					
4-Chloroaniline			5.0	0.33	ug/L	ND					
4-Chlorophenyl phenyl ether			5.0	0.17	ug/L	ND					
4-Chloropyridine			10	1.2	ug/L	ND					
4-Methylphenol			10	0.58	ug/L	ND					
4-Nitroaniline			10	0.46	ug/L	ND					
4-Nitrophenol			10	1.5	ug/L	ND					
4-Nitroquinoline-1-oxide			10	0.58	ug/L	ND					
7,12-Dimethylbenz[a]anthracene			10	0.52	ug/L	ND					
a,a-Dimethylphenethylamine			100	0.49	ug/L	ND					
Acenaphthene			5.0	0.11	ug/L	ND					
Acenaphthylene			5.0	0.047	ug/L	ND					
Acetophenone			5.0	1.0	ug/L	ND					
Alachlor			10	0.63	ug/L	ND					
Alpha-Terpineol			10	1.4	ug/L	ND					
Aniline			10	0.70	ug/L	ND					
Anthracene			5.0	0.056	ug/L	ND					
Aramite			10	0.57	ug/L	ND					
Atrazine			5.0	1.1	ug/L	ND					
Benzaldehyde			5.0	0.27	ug/L	ND					
Benzidine			80	2.2	ug/L	ND					
Benzo[a]anthracene			5.0	0.064	ug/L	ND					
Benzo[a]pyrene			0.20	0.091	ug/L	ND					
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND					
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND					
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND					
Benzoic acid			150	100	ug/L	ND					
Benzyl alcohol			10	0.29	ug/L	ND					
Biphenyl			5.0	0.65	ug/L	ND					

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 07/14/09  
Reported: 07/23/09 11:48

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 07/21/09 (Lab Number:9G14100-BLK1, Batch: 9G14100)</b>											
Bis(2-chloroethoxy)methane			5.0	0.38	ug/L	ND					
Bis(2-chloroethyl)ether			5.0	0.18	ug/L	ND					
Bis(2-chloroisopropyl) ether			4.0	4.0	ug/L	ND					
Bis(2-ethylhexyl) phthalate			5.0	4.8	ug/L	ND					
Butyl benzyl phthalate			5.0	1.7	ug/L	ND					
Caprolactam			5.0	4.6	ug/L	ND					
Carbazole			5.0	0.089	ug/L	ND					
Chlorobenzilate			20	0.51	ug/L	ND					
Chrysene			5.0	0.27	ug/L	ND					
Cresol(s)			20	1.2	ug/L	ND					
Diallate			10	0.26	ug/L	ND					
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND					
Dibenzo[a,e]pyrene			10	3.0	ug/L	ND					
Dibenzofuran			5.0	1.6	ug/L	ND					
Diethyl phthalate			5.0	0.11	ug/L	1.8					J
Dimethoate			10	0.34	ug/L	ND					
Dimethyl phthalate			5.0	0.30	ug/L	0.65					J
Di-n-butyl phthalate			5.0	0.30	ug/L	2.6					J
Di-n-octyl phthalate			5.0	0.24	ug/L	ND					
Dinoseb			10	2.9	ug/L	ND					
Diphenylamine			10	0.52	ug/L	ND					
Disulfoton			10	0.37	ug/L	ND					
Ethyl Methanesulfonate			10	1.4	ug/L	ND					
Famphur			40	0.93	ug/L	ND					
Fluoranthene			5.0	0.098	ug/L	ND					
Fluorene			5.0	0.074	ug/L	ND					
Hexachlorobenzene			5.0	0.44	ug/L	ND					
Hexachlorobutadiene			5.0	2.6	ug/L	ND					
Hexachlorocyclopentadiene			5.0	2.5	ug/L	ND					
Hexachloroethane			5.0	2.8	ug/L	ND					
Hexachlorophene			300	130	ug/L	ND					
Hexachloropropene			10	0.58	ug/L	ND					
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND					
Isodrin			10	0.93	ug/L	ND					
Isophorone			5.0	0.32	ug/L	ND					

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 07/21/09 (Lab Number:9G14100-BLK1, Batch: 9G14100)</b>											
Isosafrole			10	0.81	ug/L	ND					
Kepone			50	1.5	ug/L	ND					
Methapyrilene			50	33	ug/L	ND					
Methyl Methanesulfonate			10	3.1	ug/L	ND					
N,N-Dimethyl Formamide			20	1.7	ug/L	ND					
Naphthalene			5.0	0.12	ug/L	ND					
Nitrobenzene			5.0	0.54	ug/L	ND					
N-Nitro-o-toluidine			10	0.66	ug/L	ND					
N-Nitrosodiethylamine			10	0.95	ug/L	ND					
N-Nitrosodimethylamine			10	1.0	ug/L	ND					
N-Nitrosodi-n-butylamine			10	0.76	ug/L	ND					
N-Nitrosodi-n-propylamine			5.0	0.45	ug/L	ND					
N-Nitrosodiphenylamine			5.0	0.26	ug/L	ND					
N-Nitrosomethylethylamine			10	0.95	ug/L	ND					
N-Nitrosomorpholine			10	0.83	ug/L	ND					
N-Nitrosopiperidine			10	1.4	ug/L	ND					
N-Nitrosopyrrolidine			10	0.74	ug/L	ND					
O,O,O-Triethyl phosphorothioate			10	0.34	ug/L	ND					
Parathion-ethyl			10	0.28	ug/L	ND					
Parathion-methyl			10	0.37	ug/L	ND					
p-Dimethylamino azobenzene			10	1.0	ug/L	ND					
Pentachlorobenzene			10	1.2	ug/L	ND					
Pentachloroethane			10	2.9	ug/L	ND					
Pentachloronitrobenzene			10	1.0	ug/L	ND					
Pentachlorophenol			10	5.1	ug/L	ND					
p-Fluoroaniline			10	0.84	ug/L	ND					
Phenacetin			10	0.83	ug/L	ND					
Phenanthrene			5.0	0.11	ug/L	ND					
Phenol			5.0	0.45	ug/L	ND					
Phorate			10	2.0	ug/L	ND					
Phthalic anhydride			500	56	ug/L	ND					
p-Phenylene diamine			500	200	ug/L	ND					
Pronamide			10	0.23	ug/L	ND					
Pyrene			5.0	0.068	ug/L	ND					
Pyridine			25	1.6	ug/L	ND					

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 07/21/09 (Lab Number:9G14100-BLK1, Batch: 9G14100)</b>											
Quinoline			10	1.7	ug/L	ND					
Safrole			10	0.55	ug/L	ND					
Simazine			10	0.68	ug/L	ND					
Sulfotepp			10	0.35	ug/L	ND					
Tetraethyl lead			10	2.0	ug/L	ND					
Thionazin			10	0.30	ug/L	ND					
Tributyl phosphate			10	0.34	ug/L	ND					
Tricresylphosphate			10	1.8	ug/L	ND					
O-Anisidine			NA		ug/L	0.0					
2,4-Dimethylaniline			NA		ug/L	0.0					
1,3-Phenylenediamine			NA		ug/L	0.0					
2-Methoxy-5-Methylaniline			NA		ug/L	0.0					
<b>Surrogate:</b>											
2,4,6-Tribromophenol					ug/L		122	52-123			
<b>Surrogate:</b>											
2-Fluorobiphenyl					ug/L		90	48-116			
<b>Surrogate:</b>											
2-Fluorophenol					ug/L		42	20-120			
<b>Surrogate:</b>											
Nitrobenzene-d5					ug/L		87	46-114			
<b>Surrogate: Phenol-d5</b>											
					ug/L		31	16-120			
<b>Surrogate:</b>											
p-Terphenyl-d14					ug/L		75	24-136			
3-Methylphenol (cal)			NA		ug/L	0.0					
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
1,2,4,5-Tetrachlorobenzene			5.0	0.82	ug/L	ND		64-136			
1,2,4-Trichlorobenzene		100	10	0.11	ug/L	87.3	87	40-110			
1,2-Dichlorobenzene			10	1.5	ug/L	ND		64-120			
1,2-Diphenylhydrazine			10	0.30	ug/L	ND		0-200			
1,3,5-Trinitrobenzene			10	0.41	ug/L	ND		64-136			
1,3-Dichlorobenzene			10	0.14	ug/L	ND		64-120			
1,3-Dinitrobenzene			10	0.33	ug/L	ND		64-136			
1,4-Dichlorobenzene		100	10	0.16	ug/L	74.8	75	32-108			
1,4-Dinitrobenzene			10	0.56	ug/L	ND		0-200			
1,4-Dioxane			10	0.63	ug/L	ND		64-120			
1,4-Naphthoquinone			10	0.24	ug/L	ND		64-136			
1-Naphthylamine			10	2.3	ug/L	ND		64-136			
2,3,4,6-Tetrachlorophenol			5.0	2.1	ug/L	7.87		64-136			

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<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
2,4,5-Trichlorophenol			5.0	0.99	ug/L	ND		65-126			
2,4,6-Trichlorophenol			5.0	0.99	ug/L	ND		64-120			
2,4-Dichlorophenol			5.0	0.79	ug/L	ND		64-120			
2,4-Dimethylphenol			5.0	0.96	ug/L	ND		64-120			
2,4-Dinitrophenol			10	2.2	ug/L	ND		64-136			
2,4-Dinitrotoluene		100	5.0	0.45	ug/L	104	104	59-122			
2,6-Dichlorophenol			10	0.69	ug/L	ND		64-136			
2,6-Dichloropyridine			10	2.6	ug/L	ND		53-120			
2,6-Dinitrotoluene			5.0	0.51	ug/L	ND		74-134			
2-Acetylaminofluorene			10	0.58	ug/L	ND		64-136			
2-Chloronaphthalene			5.0	0.084	ug/L	ND		64-120			
2-Chlorophenol		100	5.0	0.50	ug/L	74.9	75	48-117			
2-Chloropyridine			10	2.2	ug/L	ND		51-120			
2-Methylnaphthalene			5.0	0.082	ug/L	ND		64-120			
2-Methylphenol			5.0	0.23	ug/L	ND		64-120			
2-Naphthylamine			10	0.66	ug/L	ND		64-136			
2-Nitroaniline			10	0.50	ug/L	ND		67-136			
2-Nitrophenol			5.0	0.60	ug/L	ND		64-120			
2-Picoline			20	0.45	ug/L	ND		64-136			
2-Toluidine			10	1.5	ug/L	ND		64-136			
3 & 4 Methylphenol			10	0.58	ug/L	ND		64-120			
3,3'-Dichlorobenzidine			5.0	0.37	ug/L	ND		64-136			
3,3'-Dimethylbenzidine			40	1.2	ug/L	ND		64-136			
3-Chloropyridine			10	1.4	ug/L	ND		48-120			
3-Methylcholanthrene			10	0.90	ug/L	ND		64-136			
3-Methylphenol			10	0.58	ug/L	ND		39-120			
3-Nitroaniline			10	1.6	ug/L	ND		69-129			
4,6-Dinitro-2-methylphenol			10	2.3	ug/L	ND		64-136			
4-Aminobiphenyl			10	0.48	ug/L	ND		64-136			
4-Bromophenyl phenyl ether			5.0	0.90	ug/L	ND		71-126			
4-Chloro-3-methylphenol		100	5.0	0.60	ug/L	109	109	64-120			
4-Chloroaniline			5.0	0.33	ug/L	ND		64-124			
4-Chlorophenyl phenyl ether			5.0	0.17	ug/L	ND		71-122			
4-Chloropyridine			10	1.2	ug/L	ND		0-200			
4-Methylphenol			10	0.58	ug/L	ND		39-120			
4-Nitroaniline			10	0.46	ug/L	ND		64-135			

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<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
4-Nitrophenol		100	10	1.5	ug/L	39.1	39	20-120			
4-Nitroquinoline-1-oxide			10	0.58	ug/L	ND		64-136			
7,12-Dimethylbenz[a]anthracene			10	0.52	ug/L	ND		64-136			
a,a-Dimethylphenethylamine			100	0.49	ug/L	ND		64-136			
Acenaphthene		100	5.0	0.11	ug/L	111	111	60-119			
Acenaphthylene			5.0	0.047	ug/L	ND		64-120			
Acetophenone			5.0	1.0	ug/L	ND		64-120			
Alachlor			10	0.63	ug/L	ND		0-200			
Alpha-Terpineol			10	1.4	ug/L	ND		0-200			
Aniline			10	0.70	ug/L	ND		64-120			
Anthracene			5.0	0.056	ug/L	ND		69-131			
Aramite			10	0.57	ug/L	ND		64-136			
Atrazine			5.0	1.1	ug/L	ND		70-129			
Benzaldehyde			5.0	0.27	ug/L	ND		30-140			
Benzidine			80	2.2	ug/L	ND		30-121			
Benzo[a]anthracene			5.0	0.064	ug/L	ND		73-136			
Benzo[a]pyrene			0.20	0.091	ug/L	ND		74-126			
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND		75-133			
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND		66-136			
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND		75-133			
Benzoic acid			150	100	ug/L	ND		10-120			
Benzyl alcohol			10	0.29	ug/L	ND		64-120			
Biphenyl			5.0	0.65	ug/L	ND		30-140			
Bis(2-chloroethoxy)methane			5.0	0.38	ug/L	ND		64-120			
Bis(2-chloroethyl)ether			5.0	0.18	ug/L	ND		64-120			
Bis(2-chloroisopropyl)ether			4.0	4.0	ug/L	ND		64-120			
Bis(2-ethylhexyl)phthalate			5.0	4.8	ug/L	ND		69-136			
Butyl benzyl phthalate			5.0	1.7	ug/L	ND		64-136			
Caprolactam			5.0	4.6	ug/L	ND		30-140			
Carbazole			5.0	0.089	ug/L	ND		68-133			
Chlorobenzilate			20	0.51	ug/L	ND		64-136			
Chrysene			5.0	0.27	ug/L	ND		69-136			
Cresol(s)			20	1.2	ug/L	ND		0-200			
Diallate			10	0.26	ug/L	ND		64-136			
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND		67-136			

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<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
Dibenzo[a,e]pyrene			10	3.0	ug/L	ND		0-200			
Dibenzofuran			5.0	1.6	ug/L	ND		66-120			
Diethyl phthalate			5.0	0.11	ug/L	ND		78-128			
Dimethoate			10	0.34	ug/L	ND		64-136			
Dimethyl phthalate			5.0	0.30	ug/L	ND		73-127			
Di-n-butyl phthalate			5.0	0.30	ug/L	ND		67-132			
Di-n-octyl phthalate			5.0	0.24	ug/L	ND		72-136			
Dinoseb			10	2.9	ug/L	ND		64-136			
Diphenylamine			10	0.52	ug/L	ND		64-136			
Disulfoton			10	0.37	ug/L	ND		40-160			
Ethyl Methanesulfonate			10	1.4	ug/L	ND		64-136			
Famphur			40	0.93	ug/L	ND		40-160			
Fluoranthene			5.0	0.098	ug/L	ND		67-133			
Fluorene			5.0	0.074	ug/L	ND		66-129			
Hexachlorobenzene			5.0	0.44	ug/L	ND		64-131			
Hexachlorobutadiene			5.0	2.6	ug/L	ND		64-120			
Hexachlorocyclopentadiene			5.0	2.5	ug/L	ND		64-120			
Hexachloroethane			5.0	2.8	ug/L	ND		64-120			
Hexachlorophene			300	130	ug/L	ND		64-136			
Hexachloropropene			10	0.58	ug/L	ND		64-136			
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND		69-136			
Isodrin			10	0.93	ug/L	ND		64-136			
Isophorone			5.0	0.32	ug/L	ND		64-120			
Isosafrole			10	0.81	ug/L	ND		64-136			
Kepone			50	1.5	ug/L	ND		64-136			
Methapyrilene			50	33	ug/L	ND		64-136			
Methyl Methanesulfonate			10	3.1	ug/L	ND		64-136			
N,N-Dimethyl Formamide			20	1.7	ug/L	ND		0-200			
Naphthalene			5.0	0.12	ug/L	ND		64-120			
Nitrobenzene			5.0	0.54	ug/L	ND		64-120			
N-Nitro-o-toluidine			10	0.66	ug/L	ND		64-136			
N-Nitrosodiethylamine			10	0.95	ug/L	ND		64-136			
N-Nitrosodimethylamine			10	1.0	ug/L	ND		64-136			
N-Nitrosodi-n-butylamine			10	0.76	ug/L	ND		64-136			
N-Nitrosodi-n-propylamine		100	5.0	0.45	ug/L	94.0	94	56-105			
N-Nitrosodiphenylamine			5.0	0.26	ug/L	ND		64-125			

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Reported: 07/23/09 11:48

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
N-Nitrosomethylethylamine			10	0.95	ug/L	ND		64-136			
N-Nitrosomorpholine			10	0.83	ug/L	ND		64-136			
N-Nitrosopiperidine			10	1.4	ug/L	ND		64-136			
N-Nitrosopyrrolidine			10	0.74	ug/L	ND		64-136			
O,O,O-Triethyl phosphorothioate			10	0.34	ug/L	ND		40-160			
Parathion-ethyl			10	0.28	ug/L	ND		40-160			
Parathion-methyl			10	0.37	ug/L	ND		40-160			
p-Dimethylamino azobenzene			10	1.0	ug/L	ND		64-136			
Pentachlorobenzene			10	1.2	ug/L	ND		64-136			
Pentachloroethane			10	2.9	ug/L	ND		64-136			
Pentachloronitrobenzene			10	1.0	ug/L	ND		64-136			
Pentachlorophenol		100	10	5.1	ug/L	116	116	39-112			L5
p-Fluoroaniline			10	0.84	ug/L	ND		51-120			
Phenacetin			10	0.83	ug/L	ND		64-136			
Phenanthrene			5.0	0.11	ug/L	ND		67-130			
Phenol		100	5.0	0.45	ug/L	31.2	31	22-112			
Phorate			10	2.0	ug/L	ND		40-160			
Phthalic anhydride			500	56	ug/L	ND		0-200			
p-Phenylene diamine			500	200	ug/L	ND		64-136			
Pronamide			10	0.23	ug/L	ND		64-136			
Pyrene		100	5.0	0.068	ug/L	146	146	58-128			L5
Pyridine			25	1.6	ug/L	ND		64-120			
Quinoline			10	1.7	ug/L	ND		0-200			
Safrole			10	0.55	ug/L	ND		64-136			
Simazine			10	0.68	ug/L	ND		0-200			
Sulfotepp			10	0.35	ug/L	ND		0-200			
Tetraethyl lead			10	2.0	ug/L	ND		10-120			
Thionazin			10	0.30	ug/L	ND		40-160			
Tributyl phosphate			10	0.34	ug/L	ND		0-200			
Tricresylphosphate			10	1.8	ug/L	ND		0-200			
O-Anisidine			NA		ug/L	0.00		0-200			
2,4-Dimethylaniline			NA		ug/L	0.00		0-200			
1,3 Phenylenediamine			NA		ug/L	0.00		0-200			
2-Methoxy-5-Methylaniline			NA		ug/L	0.00		0-200			

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 07/21/09 (Lab Number:9G14100-BS1, Batch: 9G14100)</b>											
Surrogate:					ug/L		124	52-123			Z1
2,4,6-Tribromophenol											
Surrogate:					ug/L		98	48-116			
2-Fluorobiphenyl											
Surrogate:					ug/L		42	20-120			
2-Fluorophenol											
Surrogate:					ug/L		94	46-114			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/L		31	16-120			
Surrogate:					ug/L		76	24-136			
p-Terphenyl-d14											
<b>LCS Dup Analyzed: 07/21/09 (Lab Number:9G14100-BSD1, Batch: 9G14100)</b>											
1,2,4,5-Tetrachlorobenzene			5.0	0.82	ug/L	ND		64-136		30	
1,2,4-Trichlorobenzene		100	10	0.11	ug/L	90.9	91	40-110	4	28	
1,2-Dichlorobenzene			10	1.5	ug/L	ND		64-120		29	
1,2-Diphenylhydrazine			10	0.30	ug/L	ND		0-200		200	
1,3,5-Trinitrobenzene			10	0.41	ug/L	ND		64-136		30	
1,3-Dichlorobenzene			10	0.14	ug/L	ND		64-120		37	
1,3-Dinitrobenzene			10	0.33	ug/L	ND		64-136		30	
1,4-Dichlorobenzene		100	10	0.16	ug/L	80.6	81	32-108	8	28	
1,4-Dinitrobenzene			10	0.56	ug/L	ND		0-200		200	
1,4-Dioxane			10	0.63	ug/L	ND		64-120		39	
1,4-Naphthoquinone			10	0.24	ug/L	ND		64-136		30	
1-Naphthylamine			10	2.3	ug/L	ND		64-136		30	
2,3,4,6-Tetrachlorophenol			5.0	2.1	ug/L	ND		64-136		30	
2,4,5-Trichlorophenol			5.0	0.99	ug/L	ND		65-126		18	
2,4,6-Trichlorophenol			5.0	0.99	ug/L	ND		64-120		19	
2,4-Dichlorophenol			5.0	0.79	ug/L	ND		64-120		19	
2,4-Dimethylphenol			5.0	0.96	ug/L	ND		64-120		39	
2,4-Dinitrophenol			10	2.2	ug/L	ND		64-136		22	
2,4-Dinitrotoluene		100	5.0	0.45	ug/L	108	108	59-122	4	20	
2,6-Dichlorophenol			10	0.69	ug/L	ND		64-136		30	
2,6-Dichloropyridine			10	2.6	ug/L	ND		53-120		200	
2,6-Dinitrotoluene			5.0	0.51	ug/L	ND		74-134		15	
2-Acetylaminofluorene			10	0.58	ug/L	ND		64-136		30	
2-Chloronaphthalene			5.0	0.084	ug/L	ND		64-120		21	
2-Chlorophenol		100	5.0	0.50	ug/L	81.0	81	48-117	8	25	
2-Chloropyridine			10	2.2	ug/L	ND		51-120		0	
2-Methylnaphthalene			5.0	0.082	ug/L	ND		64-120		21	

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Dup Analyzed: 07/21/09 (Lab Number:9G14100-BSD1, Batch: 9G14100)</b>											
2-Methylphenol			5.0	0.23	ug/L	ND		64-120		27	
2-Naphthylamine			10	0.66	ug/L	ND		64-136		30	
2-Nitroaniline			10	0.50	ug/L	ND		67-136		15	
2-Nitrophenol			5.0	0.60	ug/L	ND		64-120		18	
2-Picoline			20	0.45	ug/L	ND		64-136		39	
2-Toluidine			10	1.5	ug/L	ND		64-136		30	
3 & 4 Methylphenol			10	0.58	ug/L	ND		64-120		30	
3,3'-Dichlorobenzidine			5.0	0.37	ug/L	ND		64-136		25	
3,3'-Dimethylbenzidine			40	1.2	ug/L	ND		64-136		30	
3-Chloropyridine			10	1.4	ug/L	ND		48-120		200	
3-Methylcholanthrene			10	0.90	ug/L	ND		64-136		30	
3-Methylphenol			10	0.58	ug/L	ND		39-120		30	
3-Nitroaniline			10	1.6	ug/L	ND		69-129		19	
4,6-Dinitro-2-methylphenol			10	2.3	ug/L	ND		64-136		15	
4-Aminobiphenyl			10	0.48	ug/L	ND		64-136		30	
4-Bromophenyl phenyl ether			5.0	0.90	ug/L	ND		71-126		15	
4-Chloro-3-methylphenol		100	5.0	0.60	ug/L	115	115	64-120	5	27	
4-Chloroaniline			5.0	0.33	ug/L	ND		64-124		22	
4-Chlorophenyl phenyl ether			5.0	0.17	ug/L	ND		71-122		16	
4-Chloropyridine			10	1.2	ug/L	ND		0-200		200	
4-Methylphenol			10	0.58	ug/L	ND		39-120		24	
4-Nitroaniline			10	0.46	ug/L	ND		64-135		24	
4-Nitrophenol		100	10	1.5	ug/L	41.0	41	20-120	5	48	
4-Nitroquinoline-1-oxide			10	0.58	ug/L	ND		64-136		39	
7,12-Dimethylbenz[a]anthracene			10	0.52	ug/L	ND		64-136		30	
a,a-Dimethylphenethylamine			100	0.49	ug/L	ND		64-136		39	
Acenaphthene		100	5.0	0.11	ug/L	111	111	60-119	0.2	24	
Acenaphthylene			5.0	0.047	ug/L	ND		64-120		18	
Acetophenone			5.0	1.0	ug/L	ND		64-120		20	
Alachlor			10	0.63	ug/L	ND		0-200		200	
Alpha-Terpineol			10	1.4	ug/L	ND		0-200		200	
Aniline			10	0.70	ug/L	ND		64-120		30	
Anthracene			5.0	0.056	ug/L	ND		69-131		15	
Aramite			10	0.57	ug/L	ND		64-136		39	
Atrazine			5.0	1.1	ug/L	ND		70-129		20	

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Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Dup Analyzed: 07/21/09 (Lab Number:9G14100-BSD1, Batch: 9G14100)</b>											
Benzaldehyde			5.0	0.27	ug/L	ND		30-140		20	
Benzidine			80	2.2	ug/L	ND		30-121		20	
Benzo[a]anthracene			5.0	0.064	ug/L	ND		73-136		15	
Benzo[a]pyrene			0.20	0.091	ug/L	ND		74-126		15	
Benzo[b]fluoranthene			5.0	0.063	ug/L	ND		75-133		15	
Benzo[g,h,i]perylene			5.0	0.078	ug/L	ND		66-136		15	
Benzo[k]fluoranthene			5.0	0.066	ug/L	ND		75-133		22	
Benzoic acid			150	100	ug/L	ND		10-120		50	
Benzyl alcohol			10	0.29	ug/L	ND		64-120		34	
Biphenyl			5.0	0.65	ug/L	ND		30-140		20	
Bis(2-chloroethoxy)methane			5.0	0.38	ug/L	ND		64-120		17	
Bis(2-chloroethyl)ether			5.0	0.18	ug/L	ND		64-120		21	
Bis(2-chloroisopropyl)ether			4.0	4.0	ug/L	ND		64-120		24	
Bis(2-ethylhexyl)phthalate			5.0	4.8	ug/L	ND		69-136		15	
Butyl benzyl phthalate			5.0	1.7	ug/L	ND		64-136		16	
Caprolactam			5.0	4.6	ug/L	ND		30-140		20	
Carbazole			5.0	0.089	ug/L	ND		68-133		20	
Chlorobenzilate			20	0.51	ug/L	ND		64-136		30	
Chrysene			5.0	0.27	ug/L	ND		69-136		15	
Cresol(s)			20	1.2	ug/L	ND		0-200		200	
Diallate			10	0.26	ug/L	ND		64-136		30	
Dibenz[a,h]anthracene			5.0	0.20	ug/L	ND		67-136		15	
Dibenzo[a,e]pyrene			10	3.0	ug/L	ND		0-200		200	
Dibenzofuran			5.0	1.6	ug/L	ND		66-120		15	
Diethyl phthalate			5.0	0.11	ug/L	ND		78-128		15	
Dimethoate			10	0.34	ug/L	ND		64-136		30	
Dimethyl phthalate			5.0	0.30	ug/L	ND		73-127		15	
Di-n-butyl phthalate			5.0	0.30	ug/L	ND		67-132		15	
Di-n-octyl phthalate			5.0	0.24	ug/L	ND		72-136		16	
Dinoseb			10	2.9	ug/L	ND		64-136		39	
Diphenylamine			10	0.52	ug/L	ND		64-136		30	
Disulfoton			10	0.37	ug/L	ND		40-160		30	
Ethyl Methanesulfonate			10	1.4	ug/L	ND		64-136		30	
Famphur			40	0.93	ug/L	ND		40-160		30	
Fluoranthene			5.0	0.098	ug/L	ND		67-133		15	
Fluorene			5.0	0.074	ug/L	ND		66-129		15	

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Work Order: RSG0436

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Dup Analyzed: 07/21/09 (Lab Number:9G14100-BSD1, Batch: 9G14100)</b>											
Hexachlorobenzene			5.0	0.44	ug/L	ND		64-131		15	
Hexachlorobutadiene			5.0	2.6	ug/L	ND		64-120		39	
Hexachlorocyclopentadiene			5.0	2.5	ug/L	ND		64-120		39	
Hexachloroethane			5.0	2.8	ug/L	ND		64-120		39	
Hexachlorophene			300	130	ug/L	ND		64-136		39	
Hexachloropropene			10	0.58	ug/L	ND		64-136		30	
Indeno[1,2,3-cd]pyrene			5.0	0.15	ug/L	ND		69-136		15	
Isodrin			10	0.93	ug/L	ND		64-136		30	
Isophorone			5.0	0.32	ug/L	ND		64-120		17	
Isosafrole			10	0.81	ug/L	ND		64-136		30	
Kepone			50	1.5	ug/L	ND		64-136		30	
Methapyrilene			50	33	ug/L	ND		64-136		30	
Methyl Methanesulfonate			10	3.1	ug/L	ND		64-136		30	
N,N-Dimethyl Formamide			20	1.7	ug/L	ND		0-200		200	
Naphthalene			5.0	0.12	ug/L	ND		64-120		29	
Nitrobenzene			5.0	0.54	ug/L	ND		64-120		24	
N-Nitro-o-toluidine			10	0.66	ug/L	ND		64-136		30	
N-Nitrosodiethylamine			10	0.95	ug/L	ND		64-136		30	
N-Nitrosodimethylamine			10	1.0	ug/L	ND		64-136		30	
N-Nitrosodi-n-butylamine			10	0.76	ug/L	ND		64-136		30	
N-Nitrosodi-n-propylamine		100	5.0	0.45	ug/L	102	102	56-105	8	31	
N-Nitrosodiphenylamine			5.0	0.26	ug/L	ND		64-125		15	
N-Nitrosomethylethylamine			10	0.95	ug/L	ND		64-136		30	
N-Nitrosomorpholine			10	0.83	ug/L	ND		64-136		39	
N-Nitrosopiperidine			10	1.4	ug/L	ND		64-136		30	
N-Nitrosopyrrolidine			10	0.74	ug/L	ND		64-136		30	
O,O,O-Triethyl phosphorothioate			10	0.34	ug/L	ND		40-160		30	
Parathion-ethyl			10	0.28	ug/L	ND		40-160		30	
Parathion-methyl			10	0.37	ug/L	ND		40-160		30	
p-Dimethylamino azobenzene			10	1.0	ug/L	ND		64-136		30	
Pentachlorobenzene			10	1.2	ug/L	ND		64-136		30	
Pentachloroethane			10	2.9	ug/L	ND		64-136		39	
Pentachloronitrobenzene			10	1.0	ug/L	ND		64-136		30	
Pentachlorophenol		100	10	5.1	ug/L	118	118	39-112	2	37	L5
p-Fluoroaniline			10	0.84	ug/L	ND		51-120		200	

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatiles by GC/MS</u></b>											
<b>LCS Dup Analyzed: 07/21/09 (Lab Number:9G14100-BSD1, Batch: 9G14100)</b>											
Phenacetin			10	0.83	ug/L	ND		64-136		30	
Phenanthrene			5.0	0.11	ug/L	ND		67-130		15	
Phenol		100	5.0	0.45	ug/L	33.4	33	22-112	7	34	
Phorate			10	2.0	ug/L	ND		40-160		30	
Phthalic anhydride			500	56	ug/L	ND		0-200		200	
p-Phenylene diamine			500	200	ug/L	ND		64-136		30	
Pronamide			10	0.23	ug/L	ND		64-136		30	
Pyrene		100	5.0	0.068	ug/L	150	150	58-128	3	19	L5
Pyridine			25	1.6	ug/L	ND		64-120		39	
Quinoline			10	1.7	ug/L	ND		0-200		200	
Safrole			10	0.55	ug/L	ND		64-136		30	
Simazine			10	0.68	ug/L	ND		0-200		200	
Sulfotep			10	0.35	ug/L	ND		0-200		200	
Tetraethyl lead			10	2.0	ug/L	ND		10-120		35	
Thionazin			10	0.30	ug/L	ND		40-160		30	
Tributyl phosphate			10	0.34	ug/L	ND		0-200		200	
Tricresylphosphate			10	1.8	ug/L	ND		0-200		200	
O-Anisidine			NA		ug/L	0.00		0-200		200	
2,4-Dimethylaniline			NA		ug/L	0.00		0-200		200	
1,3-Phenylenediamine			NA		ug/L	0.00		0-200		200	
2-Methoxy-5-Methylaniline			NA		ug/L	0.00		0-200		200	
<i>Surrogate:</i>					ug/L		128	52-123			Z1
<i>2,4,6-Tribromophenol</i>					ug/L		100	48-116			
<i>Surrogate:</i>					ug/L		47	20-120			
<i>2-Fluorobiphenyl</i>					ug/L		97	46-114			
<i>Surrogate:</i>					ug/L		34	16-120			
<i>2-Fluorophenol</i>					ug/L		89	24-136			
<i>Surrogate:</i>					ug/L						
<i>Nitrobenzene-d5</i>					ug/L						
<i>Surrogate: Phenol-d5</i>					ug/L						
<i>Surrogate:</i>					ug/L						
<i>p-Terphenyl-d14</i>					ug/L						

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Total Metals by SW 846 Series Methods

#### Blank Analyzed: 07/15/09 (Lab Number:9G14063-BLK1, Batch: 9G14063)

Aluminum			0.045	0.040	mg/L	0.078					B
Antimony			0.0060	0.0055	mg/L	ND					
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	ND					
Beryllium			0.0020	0.0002	mg/L	0.0002					B,J
Calcium			0.5	0.1	mg/L	0.2					B,J
Chromium			0.0040	0.0009	mg/L	ND					
Cobalt			0.0040	0.0005	mg/L	ND					
Copper			0.0100	0.0013	mg/L	ND					
Iron			0.050	0.019	mg/L	ND					
Lead			0.0050	0.0029	mg/L	ND					
Magnesium			0.200	0.043	mg/L	ND					
Manganese			0.0030	0.0002	mg/L	0.0005					B,J
Nickel			0.0100	0.0013	mg/L	ND					
Potassium			0.500	0.050	mg/L	0.071					B,J
Selenium			0.0090	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	0.0014					B,J
Sodium			0.5	0.3	mg/L	0.5					B
Thallium			0.0200	0.0077	mg/L	ND					
Vanadium			0.0050	0.0011	mg/L	ND					
Zinc			0.0100	0.0015	mg/L	ND					

#### Blank Analyzed: 07/16/09 (Lab Number:9G14063-BLK2, Batch: 9G14063)

Cadmium			0.0010	0.0003	mg/L	ND					
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#### LCS Analyzed: 07/15/09 (Lab Number:9G14063-BS1, Batch: 9G14063)

Aluminum	10.0	0.045	0.040	mg/L	10.2	102	80-120				B
Antimony	0.200	0.0060	0.0055	mg/L	0.201	100	80-120				
Arsenic	0.200	0.0100	0.0056	mg/L	0.192	96	80-120				
Barium	0.200	0.0020	0.0003	mg/L	0.200	100	80-120				
Beryllium	0.200	0.0020	0.0002	mg/L	0.192	96	80-120				B
Calcium	10.0	0.5	0.1	mg/L	10.3	103	80-120				B
Chromium	0.200	0.0040	0.0009	mg/L	0.202	101	80-120				
Cobalt	0.200	0.0040	0.0005	mg/L	0.203	101	80-120				
Copper	0.200	0.0100	0.0013	mg/L	0.191	96	80-120				
Iron	10.0	0.050	0.019	mg/L	9.99	100	80-120				
Lead	0.200	0.0050	0.0029	mg/L	0.197	99	80-120				
Magnesium	10.0	0.200	0.043	mg/L	10.0	100	80-120				
Manganese	0.200	0.0030	0.0002	mg/L	0.194	97	80-120				B

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Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 07/14/09

Reported: 07/23/09 11:48

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD Limit	RPD Limit	Data Qualifiers
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#### Total Metals by SW 846 Series Methods

##### **LCS Analyzed: 07/15/09 (Lab Number:9G14063-BS1, Batch: 9G14063)**

Nickel		0.200	0.0100	0.0013	mg/L	0.197	99	80-120			
Potassium		10.0	0.500	0.050	mg/L	10.6	106	80-120			B
Selenium		0.200	0.0090	0.0087	mg/L	0.195	98	80-120			
Silver		0.0500	0.0030	0.0012	mg/L	0.0502	100	80-120			B
Sodium		10.0	0.5	0.3	mg/L	10.3	103	80-120			B
Thallium		0.200	0.0200	0.0077	mg/L	0.204	102	80-120			
Vanadium		0.200	0.0050	0.0011	mg/L	0.197	98	80-120			
Zinc		0.200	0.0100	0.0015	mg/L	0.189	95	80-120			

##### **LCS Analyzed: 07/16/09 (Lab Number:9G14063-BS2, Batch: 9G14063)**

Cadmium		0.200	0.0010	0.0003	mg/L	0.199	100	80-120			
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#### Total Metals by SW 846 Series Methods

##### **Blank Analyzed: 07/15/09 (Lab Number:9G14095-BLK1, Batch: 9G14095)**

Mercury			0.0002	0.0001	mg/L	ND					
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##### **LCS Analyzed: 07/15/09 (Lab Number:9G14095-BS1, Batch: 9G14095)**

Mercury		0.00333	0.0002	0.0001	mg/L	0.00325	98	80-120			
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 07/19/09 (Lab Number:9G19002-BLK1, Batch: 9G19002)</b>											
1,1,1-Trichloroethane			1.0	0.26	ug/L	ND					
1,1,2,2-Tetrachloroethane			1.0	0.21	ug/L	ND					
1,1,2-Trichloroethane			1.0	0.23	ug/L	ND					
1,1,2-Trichlorotrifluoroethane			1.0	0.31	ug/L	ND					
1,1-Dichloroethane			1.0	0.38	ug/L	ND					
1,1-Dichloroethene			1.0	0.29	ug/L	ND					
1,2,4-Trichlorobenzene			1.0	0.41	ug/L	ND					
1,2-Dibromo-3-chloropropane			1.0	0.39	ug/L	ND					
1,2-Dibromoethane (EDB)			1.0	0.17	ug/L	ND					
1,2-Dichlorobenzene			1.0	0.20	ug/L	ND					
1,2-Dichloroethane			1.0	0.21	ug/L	ND					
1,2-Dichloropropane			1.0	0.32	ug/L	ND					
1,3-Dichlorobenzene			1.0	0.36	ug/L	ND					
1,4-Dichlorobenzene			1.0	0.39	ug/L	ND					
Vinyl acetate			5.0	0.85	ug/L	ND					
1,2-Dichloroethene, Total			2.0	0.70	ug/L	ND					
2-Butanone (MEK)			5.0	1.3	ug/L	ND					
2-Hexanone			5.0	1.2	ug/L	ND					
4-Methyl-2-pentanone (MIBK)			5.0	0.91	ug/L	ND					
Acetone			5.0	1.3	ug/L	ND					
Benzene			1.0	0.41	ug/L	ND					
Bromodichloromethane			1.0	0.39	ug/L	ND					
Bromoform			1.0	0.26	ug/L	ND					
Bromomethane			1.0	0.28	ug/L	ND					
Carbon disulfide			1.0	0.19	ug/L	ND					
Carbon Tetrachloride			1.0	0.27	ug/L	ND					
Chlorobenzene			1.0	0.32	ug/L	ND					
Chlorodibromomethane			1.0	0.32	ug/L	ND					
Chloroethane			1.0	0.32	ug/L	ND					
Chloroform			1.0	0.34	ug/L	ND					
Chloromethane			1.0	0.35	ug/L	ND					
cis-1,2-Dichloroethene			1.0	0.38	ug/L	ND					
cis-1,3-Dichloropropene			1.0	0.36	ug/L	ND					
Cyclohexane			1.0	0.53	ug/L	ND					
Dichlorodifluoromethane			1.0	0.29	ug/L	ND					

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Volatile Organic Compounds by EPA 8260B

##### Blank Analyzed: 07/19/09 (Lab Number:9G19002-BLK1, Batch: 9G19002)

Ethylbenzene			1.0	0.18	ug/L	ND					
Isopropylbenzene			1.0	0.19	ug/L	ND					
Methyl Acetate			1.0	0.50	ug/L	ND					
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND					
Methylcyclohexane			1.0	0.50	ug/L	ND					
Methylene Chloride			1.0	0.44	ug/L	ND					
Styrene			1.0	0.18	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Toluene			1.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND					
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Trichlorofluoromethane			1.0	0.15	ug/L	ND					
Vinyl chloride			1.0	0.24	ug/L	ND					
Xylenes, total			2.0	0.66	ug/L	ND					

Surrogate:					ug/L		99	66-137			
1,2-Dichloroethane-d4											
Surrogate:					ug/L		94	73-120			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/L		99	71-126			

##### LCS Analyzed: 07/19/09 (Lab Number:9G19002-BS1, Batch: 9G19002)

1,1,1-Trichloroethane	25		1.0	0.26	ug/L	23.6	94	73-126			
1,1,2,2-Tetrachloroethane	25		1.0	0.21	ug/L	24.1	96	70-126			
1,1,2-Trichloroethane	25		1.0	0.23	ug/L	23.7	95	76-122			
1,1,2-Trichlorotrifluoroethane	25		1.0	0.31	ug/L	21.8	87	60-140			
1,1-Dichloroethane	25		1.0	0.38	ug/L	23.0	92	71-129			
1,1-Dichloroethene	25		1.0	0.29	ug/L	23.1	92	65-138			
1,2,4-Trichlorobenzene	25		1.0	0.41	ug/L	22.0	88	70-122			
1,2-Dibromo-3-chloropropane	25		1.0	0.39	ug/L	18.9	76	56-134			
1,2-Dibromoethane (EDB)	25		1.0	0.17	ug/L	23.2	93	77-120			
1,2-Dichlorobenzene	25		1.0	0.20	ug/L	22.5	90	77-120			
1,2-Dichloroethane	25		1.0	0.21	ug/L	24.4	97	75-127			
1,2-Dichloropropane	25		1.0	0.32	ug/L	23.1	92	76-120			
1,3-Dichlorobenzene	25		1.0	0.36	ug/L	22.7	91	77-120			
1,4-Dichlorobenzene	25		1.0	0.39	ug/L	22.6	91	75-120			
2-Butanone (MEK)	120		5.0	1.3	ug/L	126	101	57-140			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 07/19/09 (Lab Number:9G19002-BS1, Batch: 9G19002)</b>											
2-Hexanone		120	5.0	1.2	ug/L	130	104	65-127			
4-Methyl-2-pentanone (MIBK)		120	5.0	0.91	ug/L	130	104	71-125			
Acetone		120	5.0	1.3	ug/L	134	107	56-142			
Benzene		25	1.0	0.41	ug/L	23.1	92	71-124			
Bromodichloromethane		25	1.0	0.39	ug/L	23.8	95	80-122			
Bromoform		25	1.0	0.26	ug/L	20.6	82	66-128			
Bromomethane		25	1.0	0.28	ug/L	24.8	99	36-150			
Carbon disulfide		25	1.0	0.19	ug/L	21.6	86	59-134			
Carbon Tetrachloride		25	1.0	0.27	ug/L	23.7	95	72-134			
Chlorobenzene		25	1.0	0.32	ug/L	22.6	90	72-120			
Chlorodibromomethane		25	1.0	0.32	ug/L	21.4	86	75-125			
Chloroethane		25	1.0	0.32	ug/L	31.4	126	69-136			
Chloroform		25	1.0	0.34	ug/L	23.4	94	73-127			
Chloromethane		25	1.0	0.35	ug/L	21.6	86	49-142			
cis-1,2-Dichloroethene		25	1.0	0.38	ug/L	23.6	94	74-124			
cis-1,3-Dichloropropene		25	1.0	0.36	ug/L	24.3	97	74-124			
Cyclohexane		25	1.0	0.53	ug/L	23.7	95	70-130			
Dichlorodifluoromethane		25	1.0	0.29	ug/L	17.1	68	33-157			
Ethylbenzene		25	1.0	0.18	ug/L	22.9	92	77-123			
Isopropylbenzene		25	1.0	0.19	ug/L	23.4	93	77-122			
Methyl Acetate		25	1.0	0.50	ug/L	26.1	104	60-140			
Methyl tert-Butyl Ether		25	1.0	0.16	ug/L	24.5	98	64-127			
Methylcyclohexane		25	1.0	0.50	ug/L	23.5	94	60-140			
Methylene Chloride		25	1.0	0.44	ug/L	23.7	95	57-132			
Styrene		25	1.0	0.18	ug/L	26.1	104	70-130			
Tetrachloroethene		25	1.0	0.36	ug/L	22.9	92	74-122			
Toluene		25	1.0	0.51	ug/L	22.8	91	70-122			
trans-1,2-Dichloroethene		25	1.0	0.42	ug/L	22.9	92	73-127			
trans-1,3-Dichloropropene		25	1.0	0.37	ug/L	24.6	98	72-123			
Trichloroethene		25	1.0	0.46	ug/L	23.2	93	74-123			
Trichlorofluoromethane		25	1.0	0.15	ug/L	29.2	117	62-152			
Vinyl chloride		25	1.0	0.24	ug/L	26.8	107	65-133			
Xylenes, total		75	2.0	0.66	ug/L	68.7	92	76-122			

Surrogate: 1,2-Dichloroethane-d4 ug/L 100 66-137

Surrogate: 4-Bromofluorobenzene ug/L 96 73-120

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Project: National Grid - Little Falls (Mill Street)

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**Volatile Organic Compounds by EPA 8260B**

**LCS Analyzed: 07/19/09 (Lab Number:9G19002-BS1, Batch: 9G19002)**

Surrogate: Toluene-d8

ug/L

98

71-126

**Volatile Organic Compounds by EPA 8260B**

**Blank Analyzed: 07/20/09 (Lab Number:9G20020-BLK1, Batch: 9G20020)**

1,1,1-Trichloroethane	1.0	0.26	ug/L	ND
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L	ND
1,1,2-Trichloroethane	1.0	0.23	ug/L	ND
1,1,2-Trichlorotrifluoroethane	1.0	0.31	ug/L	ND
1,1-Dichloroethane	1.0	0.38	ug/L	ND
1,1-Dichloroethene	1.0	0.29	ug/L	ND
1,2,4-Trichlorobenzene	1.0	0.41	ug/L	ND
1,2-Dibromo-3-chloropropane	1.0	0.39	ug/L	ND
1,2-Dibromoethane (EDB)	1.0	0.17	ug/L	ND
1,2-Dichlorobenzene	1.0	0.20	ug/L	ND
1,2-Dichloroethane	1.0	0.21	ug/L	ND
1,2-Dichloropropane	1.0	0.32	ug/L	ND
1,3-Dichlorobenzene	1.0	0.36	ug/L	ND
1,4-Dichlorobenzene	1.0	0.39	ug/L	ND
Vinyl acetate	5.0	0.85	ug/L	ND
1,2-Dichloroethene, Total	2.0	0.70	ug/L	ND
2-Butanone (MEK)	5.0	1.3	ug/L	ND
2-Hexanone	5.0	1.2	ug/L	ND
4-Methyl-2-pentanone (MIBK)	5.0	0.91	ug/L	ND
Acetone	5.0	1.3	ug/L	ND
Benzene	1.0	0.41	ug/L	ND
Bromodichloromethane	1.0	0.39	ug/L	ND
Bromoform	1.0	0.26	ug/L	ND
Bromomethane	1.0	0.28	ug/L	ND
Carbon disulfide	1.0	0.19	ug/L	ND
Carbon Tetrachloride	1.0	0.27	ug/L	ND
Chlorobenzene	1.0	0.32	ug/L	ND
Chlorodibromomethane	1.0	0.32	ug/L	ND
Chloroethane	1.0	0.32	ug/L	ND
Chloroform	1.0	0.34	ug/L	ND
Chloromethane	1.0	0.35	ug/L	ND
cis-1,2-Dichloroethene	1.0	0.38	ug/L	ND
cis-1,3-Dichloropropene	1.0	0.36	ug/L	ND
Cyclohexane	1.0	0.53	ug/L	ND

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Volatile Organic Compounds by EPA 8260B

**Blank Analyzed: 07/20/09 (Lab Number:9G20020-BLK1, Batch: 9G20020)**

Dichlorodifluoromethane			1.0	0.29	ug/L	ND					
Ethylbenzene			1.0	0.18	ug/L	ND					
Isopropylbenzene			1.0	0.19	ug/L	ND					
Methyl Acetate			1.0	0.50	ug/L	ND					
Methyl tert-Butyl Ether			1.0	0.16	ug/L	ND					
Methylcyclohexane			1.0	0.50	ug/L	ND					
Methylene Chloride			1.0	0.44	ug/L	0.52					J
Styrene			1.0	0.18	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
Toluene			1.0	0.51	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.42	ug/L	ND					
trans-1,3-Dichloropropene			1.0	0.37	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Trichlorofluoromethane			1.0	0.15	ug/L	ND					
Vinyl chloride			1.0	0.24	ug/L	ND					
Xylenes, total			2.0	0.66	ug/L	ND					

<i>Surrogate:</i>					ug/L		103	66-137			
<i>1,2-Dichloroethane-d4</i>											
<i>Surrogate:</i>					ug/L		94	73-120			
<i>4-Bromofluorobenzene</i>											
<i>Surrogate: Toluene-d8</i>					ug/L		99	71-126			

**LCS Analyzed: 07/20/09 (Lab Number:9G20020-BS1, Batch: 9G20020)**

1,1,1-Trichloroethane	25	1.0	0.26	ug/L	24.8	99	73-126				
1,1,2,2-Tetrachloroethane	25	1.0	0.21	ug/L	24.9	100	70-126				
1,1,2-Trichloroethane	25	1.0	0.23	ug/L	24.4	98	76-122				
1,1,2-Trichlorotrifluoroethane	25	1.0	0.31	ug/L	23.7	95	60-140				
1,1-Dichloroethane	25	1.0	0.38	ug/L	24.6	98	71-129				
1,1-Dichloroethene	25	1.0	0.29	ug/L	25.0	100	65-138				
1,2,4-Trichlorobenzene	25	1.0	0.41	ug/L	23.8	95	70-122				
1,2-Dibromo-3-chloropropane	25	1.0	0.39	ug/L	20.3	81	56-134				
1,2-Dibromoethane (EDB)	25	1.0	0.17	ug/L	24.0	96	77-120				
1,2-Dichlorobenzene	25	1.0	0.20	ug/L	23.6	95	77-120				
1,2-Dichloroethane	25	1.0	0.21	ug/L	25.4	102	75-127				
1,2-Dichloropropane	25	1.0	0.32	ug/L	24.0	96	76-120				
1,3-Dichlorobenzene	25	1.0	0.36	ug/L	23.8	95	77-120				
1,4-Dichlorobenzene	25	1.0	0.39	ug/L	23.9	96	75-120				

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 07/20/09 (Lab Number:9G20020-BS1, Batch: 9G20020)</b>											
2-Butanone (MEK)		120	5.0	1.3	ug/L	128	102	57-140			
2-Hexanone		120	5.0	1.2	ug/L	133	107	65-127			
4-Methyl-2-pentanone (MIBK)		120	5.0	0.91	ug/L	135	108	71-125			
Acetone		120	5.0	1.3	ug/L	138	110	56-142			
Benzene		25	1.0	0.41	ug/L	24.2	97	71-124			
Bromodichloromethane		25	1.0	0.39	ug/L	24.6	98	80-122			
Bromoform		25	1.0	0.26	ug/L	20.6	82	66-128			
Bromomethane		25	1.0	0.28	ug/L	35.4	142	36-150			
Carbon disulfide		25	1.0	0.19	ug/L	22.2	89	59-134			
Carbon Tetrachloride		25	1.0	0.27	ug/L	25.3	101	72-134			
Chlorobenzene		25	1.0	0.32	ug/L	23.5	94	72-120			
Chlorodibromomethane		25	1.0	0.32	ug/L	22.1	88	75-125			
Chloroethane		25	1.0	0.32	ug/L	29.9	120	69-136			
Chloroform		25	1.0	0.34	ug/L	24.8	99	73-127			
Chloromethane		25	1.0	0.35	ug/L	23.4	94	49-142			
cis-1,2-Dichloroethene		25	1.0	0.38	ug/L	24.8	99	74-124			
cis-1,3-Dichloropropene		25	1.0	0.36	ug/L	25.1	101	74-124			
Cyclohexane		25	1.0	0.53	ug/L	24.5	98	70-130			
Dichlorodifluoromethane		25	1.0	0.29	ug/L	19.3	77	33-157			
Ethylbenzene		25	1.0	0.18	ug/L	24.1	96	77-123			
Isopropylbenzene		25	1.0	0.19	ug/L	24.5	98	77-122			
Methyl Acetate		25	1.0	0.50	ug/L	27.3	109	60-140			
Methyl tert-Butyl Ether		25	1.0	0.16	ug/L	26.2	105	64-127			
Methylcyclohexane		25	1.0	0.50	ug/L	24.2	97	60-140			
Methylene Chloride		25	1.0	0.44	ug/L	25.7	103	57-132			B
Styrene		25	1.0	0.18	ug/L	27.1	108	70-130			
Tetrachloroethene		25	1.0	0.36	ug/L	23.8	95	74-122			
Toluene		25	1.0	0.51	ug/L	23.6	95	70-122			
trans-1,2-Dichloroethene		25	1.0	0.42	ug/L	24.2	97	73-127			
trans-1,3-Dichloropropene		25	1.0	0.37	ug/L	25.4	102	72-123			
Trichloroethene		25	1.0	0.46	ug/L	24.0	96	74-123			
Trichlorofluoromethane		25	1.0	0.15	ug/L	29.9	120	62-152			
Vinyl chloride		25	1.0	0.24	ug/L	28.8	115	65-133			
Xylenes, total		75	2.0	0.66	ug/L	72.1	96	76-122			

Surrogate: 1,2-Dichloroethane-d4 ug/L 101 66-137

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSG0436

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 07/14/09  
Reported: 07/23/09 11:48

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 07/20/09 (Lab Number:9G20020-BS1, Batch: 9G20020)</b>											
Surrogate:					ug/L		95	73-120			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/L		98	71-126			

TAL-4142 (0807)

Client: **ARCADIS** Project Manager: **MIKE JONES** Date: **7/13/09** Chain of Custody Number: **391497**

Address: **6743 TOWNPATH RD., PO BOX 666** Telephone Number (Area Code): **315.449.4111** Lab Number: **716.504.9844** Page: **1** of **1**

City: **SYRACUSE** State: **NY** Zip Code: **13214-0066** Site Contact: **AN ENLER** Lab Contact: **CANDY FOX**

Project Name and Location (State): **WHITE ANUS (MILL ST.)** Contract/Purchase Order/Quote No.: **800866 73.0000**

Analysis (Attach list if more space is needed)

Containers & Preservatives	Matrix	Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Analysis
UNDES	Agar	WC-3 (WATER)	7/13/09	1330P	X HST METALS X Pb, Cd, Cr, Cu, Fe, Mn, Ni, Zn X TLA SWA, 8230 X TLA SWA, 8260 X pH, 19040 X ELASH + PENT
UNDES	Agar	TRIP BLANK			X

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Return To Client ☒ Disposal By Lab ☐ Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other: **5-DAY**

1 Relinquished By: **Mike Jones** Date: **7/13/09** Time: **1530P**

2 Relinquished By: **AN ENLER** Date: **7/13/09** Time: **1830**

3 Relinquished By: **AN ENLER** Date: **7-14-09** Time: **0900**

Comments: **2.0'**

# APPENDIX L


Well Logs



<b>Date Start/Finish:</b> 8/17/09 <b>Drilling Company:</b> Parratt Wolff <b>Driller's Name:</b> Lee Penrod/Rodney Fisk <b>Drilling Method:</b> HSA/NX-Core B.I/5"7/8 Rot.Bit <b>Sampler Size:</b> 2' x 2" <b>Auger Size:</b> 4" 1/4 <b>Rig Type:</b> CME-78	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> 354.03' <b>Surface Elevation:</b> 354.14' <b>Borehole Depth:</b> 24.5' bgs <b>Geologist:</b> Levia Terrel	<b>Well ID:</b> RW-01 <b>Client:</b> National Grid <b>Location:</b> Little Falls (Mill Street) Non-Owned Former MGP Site
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DRAFT

Depth (ft. bgs)	Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blows per 6 Inches	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Bedrock Fractures	Stratigraphic Description	Well Construction
355											
0		1	0-2	6	32	1.6	0.0	x x x		Brown fine to medium SAND and fine subangular GRAVEL, loose, moist.	Concrete pad
				9				x x x		Light gray CONCRETE.	Locking J-plug
				23				x x x		Blue SILT and fine angular GRAVEL, odor, moist.	8-inch OD Steel curb box
				13				x x x		Dark gray SILT and fine angular GRAVEL. odor, moist.	
		2	2-4	5	32	1.0	0.0	x x x		Brown fine to medium SAND, little subrounded Gravel, red Brick, odor, moist.	Cement-bentonite grout (1-6' bgs)
				12				x x x		No Recovery.	4-inch Sch.40 PVC Riser (0.5-10' bgs)
				20				x x x			
				30				x x x			bentonite chips seal (6-8' bgs)
350		3	4-6	9	11	NR	NA				
5				7							
				4							
				3							
		4	6-8	2	2	0.3	0.0	x x x		Brown fine to medium SAND and little fine Gravel, trace Asphalt, moist.	
				1				x x x			
				2				x x x			
		5	8-10	1	7	0.5	1.8	x x x		Brown to black fine to medium SAND and fine subrounded to subangular Gravel, trace cinders, tar like odor, moist.	
345				4				x x x			
10				3				x x x			
				5				x x x			
		6	10-12	2	6	0.5	0.0	x x x			
				3				x x x			
				3				x x x			
				2				x x x			
		7	12-14	5	25	1.5	45.6	x x x		Dark brown to black fine to medium SAND, black sticky tar like material, saturated, tar like odor, moist. Gravel in tip of spoon.	
				8				x x x		No Recovery -Coarse pink Gravel in tip of spoon.	
				17				x x x			
				18				x x x			
340		8	14-14.5	50	>50	NR	NA			Pink gray GRANITIC GNEISS, horizontal and vertical fractures, lost water, blacky sticky tar like material and sheen on fracture surfaces, tar like material on fracture at 18.55' bgs. Tar like odor, weathered fractures.	#0 morie Sand (8-20' bgs)
15											4-inch Sch. 40 PVC 0.020 slot size screen (10-20' bgs)



**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.

Client: National Grid


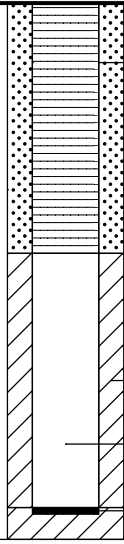

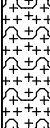

Well ID: RW-01

## Site Location:

Borehole Depth: 24.5' bgs

Little Falls (Mill Street) Non-Owned Former MGP Site

**DRAFT**

Depth (ft. bgs)	Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blows per 6 Inches	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Bedrock Fractures	Stratigraphic Description	Well Construction
335		9	14.5-19.5	NA	66%	5	11.4		16.05 16.2 16.3 16.5 V 17.05 V 17.3 17.6 17.75 18.55 19.1	Pink gray GRANITIC GNEISS, horizontal and vertical fractures, lost water, blacky sticky tar like material and sheen on fracture surfaces, tar like material on fracture at 18.55' bgs. Tar like odor, weathered fractures.	 <p>4-inch Sch. 40 PVC 0.020 slot size screen (10 - 20' bgs)</p> <p>#0 morie Sand (8 - 20' bgs)</p> <p>Cement grout (20 - 24.5' bgs)</p> <p>4-inch Sch. 40 PVC Sump (20 - 24' bgs)</p> <p>PVC end cap</p>
20							0.1		20.7	Pink gray GRANITIC GNEISS weathered horizontal fractures, lost water, rainbow sheen outside of core, mild tar like odor.	
		10	19.5-24.5	NA	94%	5	0.4		21.45 22.2 23.8 23.95		
330							0.1		23.8 23.95		
25										End of boring at 24.5' bgs.	
325											
30											
320											
35											

**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.



<b>Date Start/Finish:</b> 8/20/09 <b>Drilling Company:</b> Parratt Wolff <b>Driller's Name:</b> Lee Penrod/Rodney Fisk <b>Drilling Method:</b> HSA/NX-Core B.1/5"7/8 Rot.Bit <b>Sampler Size:</b> 2' x 2" <b>Auger Size:</b> 4" 1/4 <b>Rig Type:</b> CME-78	<b>Northing:</b> NA <b>Easting:</b> NA <b>Casing Elevation:</b> 353.30' <b>Surface Elevation:</b> 353.7' <b>Borehole Depth:</b> 20.5' bgs <b>Geologist:</b> Levia Terrel	<b>Well ID:</b> RW-02 <b>Client:</b> National Grid <b>Location:</b> Little Falls (Mill Street) Non-Owned Former MGP Site
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**DRAFT**

Depth (ft. bgs)	Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blows per 6 Inches	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Bedrock Fractures	Stratigraphic Description	Well Construction
355											
0											
		1	0-2	21 10 9 8	19	0.2	0.0			Asphalt	
		2	2-4	7 7 5 5	12	0.8	0.0	x x x x x x x x x x x x		Brown SAND and SILT, little fine subangular Gravel, trace red Brick, moist.	
350								x x x x x x x x x x x x		Black ASPHALT, some brown fine to medium Sand, trace coarse Sand, moist.	
5		3	4-6	1 1 2	2	0.2	0.0	x x x x x x x x x		Brown fine SAND, some Silt, trace Slag, medium Sand and red Brick, moist.	
		4	6-8	2 2 3	4	0.5	0.0	x x x x x x x x x		Brown fine to medium SAND, little fine to medium subangular Gravel, trace Wood, Red Brick and Slag, moist.	
345		5	8-10	5 9 23 25	32	0.4	0.0	x x x x x x x x x x x x		No Recovery	
10		6	10-10.5	50/5	>50	NR	0.0			Gray GRANITIC GNEISS, horizontal fractures weathered, broken zone 11.85 - 12.05, Tar like odor (note: several voids encountered as coring).	
		7	10.5-14.5	NA	21%	2.25	0.0		10.75 11.15 11.7 11.85 12.05 12.2 12.45 12.6		
340							0.0				
15							0.0		14.7 14.95 15.1 15.35 15.7 15.85	Gray GRANITIC GNEISS, weathered horizontal fractures 60 degree fracture at 16.1 - 16.4. Brown oily NAPL bleb of approximately 2 mm in diameter on fractured surface at 16.1, broken zone 14.5 - 14.7, 15.35 - 15.7.	

**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.





Client: National Grid


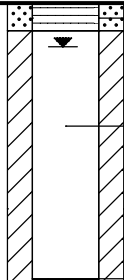
Well ID: RW-02

## Site Location:

Borehole Depth: 20.5' bgs

Little Falls (Mill Street) Non-Owned Former MGP Site

**DRAFT**

Depth (ft. bgs)	Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blows per 6 Inches	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Bedrock Fractures	Stratigraphic Description	Well Construction
335 20		8	14.5-20.5	NA	37%	4	0.0		16.1 16.4 17.1 18.5	Gray GRANITIC GNEISS, weathered horizontal fractures 60 degree fracture at 16.1 - 16.4. Brown oily NAPL bleb of approximately 2 mm in diameter on fractured surface at 16.1, broken zone 14.5 - 14.7, 15.35 - 15.7.	
330 25 325 30 320 35										End of boring at 20.5' bgs.	



**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.

**Well ID:** RW-03A

**Client:** National Grid

**Location:** Little Falls (Former MGR)

**DRAFT**

Depth (ft. bgs)	Elevation (ft. AMSL)	Sample Run Number	Sample/Int/Type	Blows per 6 Inches	N - Value / RQD (%)	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Bedrock Fractures	Stratigraphic Description	Well Construction
355											
0											
		1	0-2	14 40 28 40	68	2.0	4.0	x x x x x x x x x x		Gray fine to coarse SAND, some Silt and medium angular Gravel, loose, dry.	
		2	2-4	50/4	>50	0.58	2.8	x x		Gray to dark gray fine to medium SAND, trace Brick fragments, plastic fiber, medium dense, moist to dry, concrete odor.	
										Gray fine SAND and some Silt, trace Brick and fine to medium angular Gravel, medium dense, odor, moist.	
										No Recovery.	
350											
		3	4-6	11 30 50/3	>50	1.17	2.5	x x x x x x x x		Dark gray medium to coarse SAND, little Gravel, loose, odor, moist.	
										Gray to brown fine to medium SAND, some angular Gravel, medium dense, odor, moist.	
5										Brick and fresh cement, soil and fill, odor, dry to moist.	
										No recovery (very hard material).	
		4	6-8	7 7 17 50/4	24	1.54	4.7	x x x x x x x x x x		Gray coarse SAND and fine subangular GRAVEL, loose, concrete odor, moist.	
										Gray to brown fine to coarse SAND, some angular fine Gravel, little Brick fragments,medium dense, cement odor, moist.	
345		5	8-10	14 18 34 12	52	2.0	11.3	x x x x x x x x		Gray fine SAND, little Slag, little Brick fragments, medium dense, cement odor, moist.	
10											
		6	10-12	4 17 25 9	42	1.48	14.0	x x x x x x x x		Gray to brown fine to coarse SAND, some angular medium to coarse Gravel, little Brick fragments, medium dense, odor, moist to wet.	
										Gray fine to medium SAND, little to trace Coal, Slag and Brick fragments, medium dense, odor, moist.	
340		7	12-14	31 37 30 30	67	2.0	15.2	x x x x x x x x		Same as above, moist to wet.	
15		8	14-16	10 40 14 12	54	0.95	21.3	x x x x x x x x			
										BRICK and CONCRETE fragments, dense, slight odor, dry.	



**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.

Well ID: RW-03A

**Borehole Depth:** 34.5' bgs

**DRAFT**

**Remarks:** Remarks: bgs = below ground surface; NA = Not Applicable/Available; NR = No recovery.



# APPENDIX M

Analytical Data for Select Fill



## Analytical Report

Work Order: RSF0166

### Project Description

National Grid - Little Falls (Mill Street)

For:

Allen Evans

**ARCADIS U.S., Inc. - Syracuse, NY**

6723 Towpath Road, PO Box 66

Syracuse, NY 13214-0066



---

Candace Fox

Project Manager

candace.fox@testamericainc.com

Friday, June 12, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

## TestAmerica Buffalo Current Certifications

**As of 1/27/2009**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	CWA, RCRA, SOIL	88-0686
<b>California*</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida*</b>	NELAP CWA, RCRA	E87672
<b>Georgia*</b>	SDWA, NELAP CWA, RCRA	956
<b>Illinois*</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas*</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana*</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY0044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire*</b>	NELAP SDWA, CWA	233701
<b>New Jersey*</b>	NELAP, SDWA, CWA, RCRA,	NY455
<b>New York*</b>	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania*</b>	NELAP CWA, RCRA	68-00281
<b>Tennessee</b>	SDWA	02970
<b>Texas*</b>	NELAP CWA, RCRA	T104704412-08-TX
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington*</b>	NELAP CWA, RCRA	C1677
<b>Wisconsin</b>	CWA, RCRA	998310390
<b>West Virginia</b>	CWA, RCRA	252

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

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### **Case Narrative**

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

#### DATA QUALIFIERS AND DEFINITIONS

<b>B</b>	Analyte was detected in the associated Method Blank.
<b>D02</b>	Dilution required due to sample matrix effects
<b>J</b>	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
<b>L</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
<b>L1</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
<b>L2</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
<b>M1</b>	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>NR</b>	Any inclusion of NR indicates that the project specific requirements do not require reporting to method detection limit (MDL)

#### ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.



ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-01 (FM-01 (ROC) - Solid)						Sampled: 06/03/09 15:30		Recvd: 06/04/09 09:00		
<u>Semivolatile Organics by GC/MS</u>										
Benzo[g,h,i]perylene	11	J	170	2.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[k]fluoranthene	6.7	J	170	1.9	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Bis(2-ethylhexyl) phthalate	100	J, B	170	55	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Indeno[1,2,3-cd]pyrene	8.1	J	170	4.7	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
<u>Total Metals by SW 846 Series Methods</u>										
Barium	15.6	D02	2.67	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Lead	1.55		0.0241	NR	mg/kg dry	1.00	06/09/09 08:42	AMH	9F05004	6020
<u>Volatile Organic Compounds by EPA 8260B</u>										
Methylene Chloride	20		4.9	0.34	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Sample ID: RSF0166-02 (FM-02 (ROB) - Solid)						Sampled: 06/03/09 17:20		Recvd: 06/04/09 09:00		
<u>Semivolatile Organics by GC/MS</u>										
Bis(2-ethylhexyl) phthalate	100	J, B	180	57	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
<u>Total Metals by SW 846 Series Methods</u>										
Arsenic	4.9		2.3	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Barium	32.1		0.586	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Chromium	7.22		0.586	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Lead	0.527		0.0256	NR	mg/kg dry	1.00	06/09/09 08:44	AMH	9F05004	6020
<u>Volatile Organic Compounds by EPA 8260B</u>										
Acetone	9.4	J	26	2.0	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Methylene Chloride	28		5.1	0.36	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

Reported: 06/12/09 16:09

### Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
FM-01 (ROC)	RSF0166-01	Solid	06/03/09 15:30	06/04/09 09:00	
FM-02 (ROB)	RSF0166-02	Solid	06/03/09 17:20	06/04/09 09:00	

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSF0166-01 (FM-01 (ROC) - Solid)

Sampled: 06/03/09 15:30

Recvd: 06/04/09 09:00

#### General Chemistry Parameters

Cyanide	ND		0.9	NR	mg/kg dry	1.00	06/08/09 11:03	jmm	9F06009	9012A
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#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		17	3.4	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1221	ND		17	3.4	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1232	ND		17	3.4	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1242	ND		17	3.7	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1248	ND		17	3.4	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1254	ND		17	3.6	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082
Aroclor 1260	ND		17	3.6	ug/kg dry	1.00	06/08/09 16:28	JM	9F07005	8082

Decachlorobiphenyl	108 %		Surr Limits: (34-148%)				06/08/09 16:28	JM	9F07005	8082
Tetrachloro-m-xylene	96 %		Surr Limits: (35-134%)				06/08/09 16:28	JM	9F07005	8082

#### Semivolatile Organics by GC/MS

2,4,5-Trichlorophenol	ND		170	37	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4,6-Trichlorophenol	ND		170	11	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4-Dichlorophenol	ND		170	8.9	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4-Dimethylphenol	ND		170	46	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4-Dinitrophenol	ND		330	60	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4-Dinitrotoluene	ND		170	26	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,6-Dinitrotoluene	ND		170	42	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Chloronaphthalene	ND		170	11	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Chlorophenol	ND		170	8.7	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Methylnaphthalene	ND		170	2.1	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Methylphenol	ND		170	5.2	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Nitroaniline	ND		330	55	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2-Nitrophenol	ND		170	7.8	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
3,3'-Dichlorobenzidine	ND		170	150	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
3-Nitroaniline	ND		330	39	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4,6-Dinitro-2-methylphenol	ND		330	59	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Bromophenyl phenyl ether	ND		170	54	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Chloro-3-methylphenol	ND		170	7.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Chloroaniline	ND		170	50	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Chlorophenyl phenyl ether	ND		170	3.6	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Methylphenol	ND		330	9.5	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Nitroaniline	ND		330	19	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
4-Nitrophenol	ND		330	41	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Acenaphthene	ND		170	2.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Acenaphthylene	ND		170	1.4	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Acetophenone	ND		170	8.8	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Anthracene	ND		170	4.4	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Atrazine	ND		170	7.6	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzaldehyde	ND		170	19	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[a]anthracene	ND		170	2.9	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[a]pyrene	ND		170	4.1	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[b]fluoranthene	ND		170	3.3	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[g,h,i]perylene	11	J	170	2.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Benzo[k]fluoranthene	6.7	J	170	1.9	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C

TestAmerica Buffalo

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-01 (FM-01 (ROC) - Solid) - cont.						Sampled: 06/03/09 15:30		Recvd: 06/04/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Biphenyl	ND		170	11	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Bis(2-chloroethoxy)metha ne	ND		170	9.3	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Bis(2-chloroethyl)ether	ND		170	15	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,2'-Oxybis(1-Chloroprop ane)	ND		170	18	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Bis(2-ethylhexyl) phthalate	100	J, B	170	55	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Butyl benzyl phthalate	ND		170	46	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Caprolactam	ND		170	74	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Carbazole	ND		170	2.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Chrysene	ND		170	1.7	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Dibenz[a,h]anthracene	ND		170	2.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Dibenzofuran	ND		170	1.8	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Diethyl phthalate	ND		170	5.2	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Dimethyl phthalate	ND		170	4.5	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Di-n-butyl phthalate	ND		170	59	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Di-n-octyl phthalate	ND		170	4.0	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Fluoranthene	ND		170	2.5	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Fluorene	ND		170	3.9	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Hexachlorobenzene	ND		170	8.5	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Hexachlorobutadiene	ND		170	8.7	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Hexachlorocyclopentadie ne	ND		170	52	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Hexachloroethane	ND		170	13	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Indeno[1,2,3-cd]pyrene	8.1	J	170	4.7	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Isophorone	ND		170	8.5	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Naphthalene	ND		170	2.8	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Nitrobenzene	ND		170	7.6	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
N-Nitrosodi-n-propylamin e	ND		170	14	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
N-Nitrosodiphenylamine	ND	L	170	9.3	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Pentachlorophenol	ND		330	59	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Phenanthrene	ND		170	3.6	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Phenol	ND		170	18	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
Pyrene	ND		170	1.1	ug/kg dry	1.00	06/11/09 11:52	MKP	9F07002	8270C
2,4,6-Tribromophenol	79 %		Surr Limits: (39-146%)				06/11/09 11:52	MKP	9F07002	8270C
2-Fluorobiphenyl	87 %		Surr Limits: (37-120%)				06/11/09 11:52	MKP	9F07002	8270C
2-Fluorophenol	77 %		Surr Limits: (18-120%)				06/11/09 11:52	MKP	9F07002	8270C
Nitrobenzene-d5	81 %		Surr Limits: (34-132%)				06/11/09 11:52	MKP	9F07002	8270C
Phenol-d5	84 %		Surr Limits: (11-120%)				06/11/09 11:52	MKP	9F07002	8270C
p-Terphenyl-d14	85 %		Surr Limits: (58-147%)				06/11/09 11:52	MKP	9F07002	8270C

### Total Metals by SW 846 Series Methods

Arsenic	ND	D02	10.7	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Barium	15.6	D02	2.67	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Cadmium	ND	D02	1.07	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Chromium	ND	D02	2.67	NR	mg/kg dry	5.00	06/09/09 12:46	DAN	9F05003	6010B
Selenium	ND	D02	21.3	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Silver	ND	D02	2.67	NR	mg/kg dry	5.00	06/08/09 18:57	DAN	9F05003	6010B
Lead	1.55		0.0241	NR	mg/kg dry	1.00	06/09/09 08:42	AMH	9F05004	6020

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
<b>Sample ID: RSF0166-01 (FM-01 (ROC) - Solid) - cont.</b>							<b>Sampled: 06/03/09 15:30</b>		<b>Recvd: 06/04/09 09:00</b>	
<b>Total Metals by SW 846 Series Methods - cont.</b>										
Mercury	ND		0.0202	NR	mg/kg dry	1.00	06/11/09 15:56	MM	9F09090	7471A
<b>Volatile Organic Compounds by EPA 8260B</b>										
1,1,1-Trichloroethane	ND		4.9	0.36	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,1,2-Trichloroethane	ND		4.9	0.25	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,1,2-Trichlorotrifluoroethane	ND		4.9	0.52	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,1-Dichloroethane	ND		4.9	0.24	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,1-Dichloroethene	ND		4.9	0.60	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dibromo-3-chloropropane	ND		4.9	0.98	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dibromoethane (EDB)	ND		4.9	0.19	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dichlorobenzene	ND		4.9	0.74	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dichloroethane	ND		4.9	0.25	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dichloropropane	ND		4.9	0.25	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,3-Dichlorobenzene	ND		4.9	0.70	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,4-Dichlorobenzene	ND		4.9	0.69	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
2-Butanone (MEK)	ND		25	6.7	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
2-Hexanone	ND		25	1.7	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Acetone	ND		25	1.9	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Benzene	ND		4.9	0.24	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Bromodichloromethane	ND		4.9	0.25	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Bromoform	ND		4.9	0.45	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Bromomethane	ND		4.9	0.45	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Carbon disulfide	ND		4.9	0.42	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Carbon Tetrachloride	ND		4.9	0.18	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Chlorobenzene	ND		4.9	0.21	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Chlorodibromomethane	ND		4.9	0.27	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Chloroethane	ND		4.9	0.80	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Chloroform	ND		4.9	0.30	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Chloromethane	ND		4.9	0.34	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
cis-1,2-Dichloroethene	ND		4.9	0.24	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
cis-1,3-Dichloropropene	ND		4.9	0.28	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Cyclohexane	ND		4.9	0.23	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Dichlorodifluoromethane	ND		4.9	0.41	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Ethylbenzene	ND		4.9	0.34	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Isopropylbenzene	ND		4.9	0.32	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Methyl Acetate	ND		4.9	0.17	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Methyl tert-Butyl Ether	ND		4.9	0.15	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Methylcyclohexane	ND		4.9	0.32	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Methylene Chloride	20		4.9	0.34	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Styrene	ND		4.9	0.25	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Tetrachloroethene	ND		4.9	0.66	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Toluene	ND		4.9	0.50	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
trans-1,3-Dichloropropene	ND		4.9	0.24	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-01 (FM-01 (ROC) - Solid) - cont.						Sampled: 06/03/09 15:30		Recvd: 06/04/09 09:00		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Trichloroethene	ND		4.9	0.34	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Trichlorofluoromethane	ND		4.9	1.5	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Vinyl chloride	ND		9.9	0.20	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
Xylenes, total	ND		9.9	0.83	ug/kg dry	1.00	06/10/09 23:33	CDC	9F10037	8260B
1,2-Dichloroethane-d4	120 %		Surr Limits: (61-136%)				06/10/09 23:33	CDC	9F10037	8260B
4-Bromofluorobenzene	120 %		Surr Limits: (72-126%)				06/10/09 23:33	CDC	9F10037	8260B
Toluene-d8	113 %		Surr Limits: (71-125%)				06/10/09 23:33	CDC	9F10037	8260B

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-01RE1 (FM-01 (ROC) - Solid)						Sampled: 06/03/09 15:30		Recvd: 06/04/09 09:00		
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDD	ND		1.7	0.33	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
4,4'-DDE	ND		1.7	0.49	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
4,4'-DDT	ND		1.7	0.39	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Aldrin	ND		1.7	0.17	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
alpha-BHC	ND		1.7	0.31	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
beta-BHC	ND		1.7	1.2	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Chlordane	ND		17	3.8	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
delta-BHC	ND		1.7	0.23	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Dieldrin	ND		1.7	0.41	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endosulfan I	ND		1.7	0.36	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endosulfan II	ND		1.7	0.31	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endosulfan sulfate	ND		1.7	0.32	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endrin	ND		1.7	0.56	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endrin aldehyde	ND		1.7	0.44	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Endrin ketone	ND		1.7	0.42	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
gamma-BHC (Lindane)	ND		1.7	0.30	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Heptachlor	ND		1.7	0.27	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Heptachlor epoxide	ND		1.7	0.44	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Methoxychlor	ND		1.7	0.46	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Toxaphene	ND		17	10	ug/kg dry	1.00	06/11/09 17:13	DGB	9F09092	8081A
Decachlorobiphenyl	96 %		Surr Limits: (42-146%)				06/11/09 17:13	DGB	9F09092	8081A
Tetrachloro-m-xylene	89 %		Surr Limits: (37-136%)				06/11/09 17:13	DGB	9F09092	8081A



ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSF0166-02 (FM-02 (ROB) - Solid)

Sampled: 06/03/09 17:20

Recvd: 06/04/09 09:00

#### General Chemistry Parameters

Cyanide	ND		1.0	NR	mg/kg dry	1.00	06/08/09 11:04	jmm	9F06009	9012A
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#### Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND		18	3.5	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1221	ND		18	3.5	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1232	ND		18	3.5	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1242	ND		18	3.8	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1248	ND		18	3.5	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1254	ND		18	3.7	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082
Aroclor 1260	ND		18	3.7	ug/kg dry	1.00	06/08/09 16:43	JM	9F07005	8082

Decachlorobiphenyl	107 %		Surr Limits: (34-148%)				06/08/09 16:43	JM	9F07005	8082
Tetrachloro-m-xylene	94 %		Surr Limits: (35-134%)				06/08/09 16:43	JM	9F07005	8082

#### Semivolatile Organics by GC/MS

2,4,5-Trichlorophenol	ND		180	39	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4,6-Trichlorophenol	ND		180	12	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4-Dichlorophenol	ND		180	9.3	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4-Dimethylphenol	ND		180	48	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4-Dinitrophenol	ND		350	62	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4-Dinitrotoluene	ND		180	28	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,6-Dinitrotoluene	ND		180	44	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Chloronaphthalene	ND		180	12	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Chlorophenol	ND		180	9.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Methylnaphthalene	ND		180	2.2	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Methylphenol	ND		180	5.5	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Nitroaniline	ND		350	57	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2-Nitrophenol	ND		180	8.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
3,3'-Dichlorobenzidine	ND		180	160	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
3-Nitroaniline	ND		350	41	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4,6-Dinitro-2-methylphenol	ND		350	62	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Bromophenyl phenyl ether	ND		180	57	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Chloro-3-methylphenol	ND		180	7.3	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Chloroaniline	ND		180	52	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Methylphenol	ND		350	9.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Nitroaniline	ND		350	20	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
4-Nitrophenol	ND		350	43	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Acenaphthene	ND		180	2.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Acenaphthylene	ND		180	1.5	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Acetophenone	ND		180	9.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Anthracene	ND		180	4.6	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Atrazine	ND		180	7.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzaldehyde	ND		180	20	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzo[a]anthracene	ND		180	3.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzo[a]pyrene	ND		180	4.3	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzo[b]fluoranthene	ND		180	3.5	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzo[g,h,i]perylene	ND		180	2.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Benzo[k]fluoranthene	ND		180	2.0	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C

TestAmerica Buffalo

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-02 (FM-02 (ROB) - Solid) - cont.						Sampled: 06/03/09 17:20		Recvd: 06/04/09 09:00		
<u>Semivolatile Organics by GC/MS - cont.</u>										
Biphenyl	ND		180	11	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Bis(2-chloroethoxy)metha ne	ND		180	9.7	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Bis(2-chloroethyl)ether	ND		180	15	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,2'-Oxybis(1-Chloroprop ane)	ND		180	19	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Bis(2-ethylhexyl) phthalate	100	J, B	180	57	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Butyl benzyl phthalate	ND		180	48	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Caprolactam	ND		180	77	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Carbazole	ND		180	2.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Chrysene	ND		180	1.8	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Dibenz[a,h]anthracene	ND		180	2.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Dibenzofuran	ND		180	1.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Diethyl phthalate	ND		180	5.4	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Dimethyl phthalate	ND		180	4.6	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Di-n-butyl phthalate	ND		180	62	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Di-n-octyl phthalate	ND		180	4.2	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Fluoranthene	ND		180	2.6	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Fluorene	ND		180	4.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Hexachlorobenzene	ND		180	8.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Hexachlorobutadiene	ND		180	9.1	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Hexachlorocyclopentadie ne	ND		180	54	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Hexachloroethane	ND		180	14	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Indeno[1,2,3-cd]pyrene	ND		180	4.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Isophorone	ND		180	8.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Naphthalene	ND		180	3.0	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Nitrobenzene	ND		180	7.9	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
N-Nitrosodi-n-propylamin e	ND		180	14	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
N-Nitrosodiphenylamine	ND	L	180	9.7	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Pentachlorophenol	ND		350	61	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Phenanthrene	ND		180	3.7	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Phenol	ND		180	19	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
Pyrene	ND		180	1.2	ug/kg dry	1.00	06/09/09 22:43	MKP	9F07002	8270C
2,4,6-Tribromophenol	79 %		Surr Limits: (39-146%)				06/09/09 22:43	MKP	9F07002	8270C
2-Fluorobiphenyl	78 %		Surr Limits: (37-120%)				06/09/09 22:43	MKP	9F07002	8270C
2-Fluorophenol	68 %		Surr Limits: (18-120%)				06/09/09 22:43	MKP	9F07002	8270C
Nitrobenzene-d5	77 %		Surr Limits: (34-132%)				06/09/09 22:43	MKP	9F07002	8270C
Phenol-d5	75 %		Surr Limits: (11-120%)				06/09/09 22:43	MKP	9F07002	8270C
p-Terphenyl-d14	77 %		Surr Limits: (58-147%)				06/09/09 22:43	MKP	9F07002	8270C

### Total Metals by SW 846 Series Methods

Arsenic	4.9	2.3	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Barium	32.1	0.586	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Cadmium	ND	0.235	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Chromium	7.22	0.586	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Selenium	ND	4.7	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Silver	ND	0.586	NR	mg/kg dry	1.00	06/05/09 19:30	DAN	9F05003	6010B
Lead	0.527	0.0256	NR	mg/kg dry	1.00	06/09/09 08:44	AMH	9F05004	6020

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
<b>Sample ID: RSF0166-02 (FM-02 (ROB) - Solid) - cont.</b>							<b>Sampled: 06/03/09 17:20</b>		<b>Recvd: 06/04/09 09:00</b>	
<b>Total Metals by SW 846 Series Methods - cont.</b>										
Mercury	ND		0.0219	NR	mg/kg dry	1.00	06/11/09 15:57	MM	9F09090	7471A
<b>Volatile Organic Compounds by EPA 8260B</b>										
1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,1,2-Trichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.1	0.54	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,1-Dichloroethene	ND		5.1	0.63	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dibromoethane (EDB)	ND		5.1	0.19	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dichlorobenzene	ND		5.1	0.77	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dichloroethane	ND		5.1	0.26	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,4-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
2-Butanone (MEK)	ND		26	7.0	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
2-Hexanone	ND		26	1.8	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Acetone	9.4	J	26	2.0	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Benzene	ND		5.1	0.25	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Bromoform	ND		5.1	0.47	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Bromomethane	ND		5.1	0.47	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Carbon disulfide	ND		5.1	0.44	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Carbon Tetrachloride	ND		5.1	0.19	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Chlorobenzene	ND		5.1	0.22	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Chlorodibromomethane	ND		5.1	0.28	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Chloroethane	ND		5.1	0.83	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Chloroform	ND		5.1	0.32	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Chloromethane	ND		5.1	0.35	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Cyclohexane	ND		5.1	0.24	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Ethylbenzene	ND		5.1	0.35	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Isopropylbenzene	ND		5.1	0.34	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Methyl Acetate	ND		5.1	0.18	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Methyl tert-Butyl Ether	ND		5.1	0.16	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Methylene Chloride	28		5.1	0.36	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Styrene	ND		5.1	0.26	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Tetrachloroethene	ND		5.1	0.69	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Toluene	ND		5.1	0.52	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-02 (FM-02 (ROB) - Solid) - cont.						Sampled: 06/03/09 17:20		Recvd: 06/04/09 09:00		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
Trichloroethene	ND		5.1	0.35	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
Xylenes, total	ND		10	0.86	ug/kg dry	1.00	06/10/09 23:58	CDC	9F10037	8260B
1,2-Dichloroethane-d4	124 %		Surr Limits: (61-136%)				06/10/09 23:58	CDC	9F10037	8260B
4-Bromofluorobenzene	122 %		Surr Limits: (72-126%)				06/10/09 23:58	CDC	9F10037	8260B
Toluene-d8	114 %		Surr Limits: (71-125%)				06/10/09 23:58	CDC	9F10037	8260B

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Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0166-02RE1 (FM-02 (ROB) - Solid)						Sampled: 06/03/09 17:20		Recvd: 06/04/09 09:00		
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDD	ND		1.8	0.35	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
4,4'-DDE	ND		1.8	0.51	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
4,4'-DDT	ND		1.8	0.41	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Aldrin	ND		1.8	0.18	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
alpha-BHC	ND		1.8	0.32	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
beta-BHC	ND		1.8	1.3	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Chlordane	ND		18	4.0	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
delta-BHC	ND		1.8	0.24	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Dieldrin	ND		1.8	0.43	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endosulfan I	ND		1.8	0.38	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endosulfan II	ND		1.8	0.32	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endosulfan sulfate	ND		1.8	0.33	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endrin	ND		1.8	0.58	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endrin aldehyde	ND		1.8	0.46	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Endrin ketone	ND		1.8	0.44	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
gamma-BHC (Lindane)	ND		1.8	0.31	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Heptachlor	ND		1.8	0.28	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Heptachlor epoxide	ND		1.8	0.46	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Methoxychlor	ND		1.8	0.48	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Toxaphene	ND		18	10	ug/kg dry	1.00	06/11/09 17:49	DGB	9F09092	8081A
Decachlorobiphenyl	85 %		Surr Limits: (42-146%)				06/11/09 17:49	DGB	9F09092	8081A
Tetrachloro-m-xylene	68 %		Surr Limits: (37-136%)				06/11/09 17:49	DGB	9F09092	8081A

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Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
9012A	9F06009	RSF0166-02	0.55	g	50.00	mL	06/06/09 12:30	MDM	Cn Digestion
9012A	9F06009	RSF0166-01	0.59	g	50.00	mL	06/06/09 12:30	MDM	Cn Digestion
Organochlorine Pesticides by EPA Method 8081A									
8081A	9F09092	RSF0166-01RE'	30.20	g	10.00	mL	06/10/09 08:00	JB	3550B GC
8081A	9F09092	RSF0166-02RE'	30.31	g	10.00	mL	06/10/09 08:00	JB	3550B GC
Polychlorinated Biphenyls by EPA Method 8082									
8082	9F07005	RSF0166-01	30.21	g	10.00	mL	06/08/09 08:00	JB	3550B GC
8082	9F07005	RSF0166-02	30.63	g	10.00	mL	06/08/09 08:00	JB	3550B GC
Semivolatile Organics by GC/MS									
8270C	9F07002	RSF0166-01	30.73	g	1.00	mL	06/08/09 08:00	JB	3550B MB
8270C	9F07002	RSF0166-02	30.73	g	1.00	mL	06/08/09 08:00	JB	3550B MB
Total Metals by SW 846 Series Methods									
6010B	9F05003	RSF0166-02	0.46	g	50.00	mL	06/05/09 10:30	MLD	3050B
6010B	9F05003	RSF0166-01	0.48	g	50.00	mL	06/05/09 10:30	MLD	3050B
6020	9F05004	RSF0166-02	0.53	g	50.00	mL	06/05/09 10:30	MLD	3050B
6020	9F05004	RSF0166-01	0.54	g	50.00	mL	06/05/09 10:30	MLD	3050B
7471A	9F09090	RSF0166-02	0.59	g	50.00	mL	06/11/09 13:35	MM	7471A_
7471A	9F09090	RSF0166-01	0.61	g	50.00	mL	06/11/09 13:35	MM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9F10037	RSF0166-01	5.25	g	5.00	mL	06/10/09 11:50	CDC	5030B MS
8260B	9F10037	RSF0166-02	5.28	g	5.00	mL	06/10/09 11:50	CDC	5030B MS

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Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>General Chemistry Parameters</u></b>											
<b>Blank Analyzed: 06/08/09 (Lab Number:9F06009-BLK1, Batch: 9F06009)</b>											
Cyanide			1.0	NR	mg/kg wet	ND					
<b>LCS Analyzed: 06/08/09 (Lab Number:9F06009-BS1, Batch: 9F06009)</b>											
Cyanide		60.6	1.8	NR	mg/kg wet	32.4	53	40-160			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Organochlorine Pesticides by EPA Method 8081A

##### Blank Analyzed: 06/11/09 (Lab Number:9F09092-BLK1, Batch: 9F09092)

4,4'-DDD			1.7	0.32	ug/kg wet	ND					
4,4'-DDE			1.7	0.48	ug/kg wet	ND					
4,4'-DDT			1.7	0.38	ug/kg wet	ND					
Aldrin			1.7	0.17	ug/kg wet	ND					
alpha-BHC			1.7	0.30	ug/kg wet	ND					
beta-BHC			1.7	1.2	ug/kg wet	ND					
Chlordane			17	3.7	ug/kg wet	ND					
delta-BHC			1.7	0.22	ug/kg wet	ND					
Dieldrin			1.7	0.40	ug/kg wet	ND					
Endosulfan I			1.7	0.35	ug/kg wet	ND					
Endosulfan II			1.7	0.30	ug/kg wet	ND					
Endosulfan sulfate			1.7	0.31	ug/kg wet	ND					
Endrin			1.7	0.54	ug/kg wet	ND					
Endrin aldehyde			1.7	0.42	ug/kg wet	ND					
Endrin ketone			1.7	0.41	ug/kg wet	ND					
gamma-BHC (Lindane)			1.7	0.29	ug/kg wet	ND					
Heptachlor			1.7	0.26	ug/kg wet	ND					
Heptachlor epoxide			1.7	0.43	ug/kg wet	ND					
Methoxychlor			1.7	0.44	ug/kg wet	ND					
Toxaphene			17	9.6	ug/kg wet	ND					

Surrogate:					ug/kg wet		93	42-146			
Decachlorobiphenyl											
Surrogate:					ug/kg wet		75	37-136			
Tetrachloro-m-xylene											

##### LCS Analyzed: 06/11/09 (Lab Number:9F09092-BS1, Batch: 9F09092)

4,4'-DDD	16	1.6	0.32	ug/kg wet	14.4	88	55-129				
4,4'-DDE	16	1.6	0.47	ug/kg wet	13.8	85	59-120				
4,4'-DDT	16	1.6	0.37	ug/kg wet	15.2	93	47-145				
Aldrin	16	1.6	0.17	ug/kg wet	12.6	77	35-120				
alpha-BHC	16	1.6	0.29	ug/kg wet	12.4	76	49-120				
beta-BHC	16	1.6	1.2	ug/kg wet	7.60	47	56-120				L2
delta-BHC	16	1.6	0.22	ug/kg wet	9.40	58	45-123				
Dieldrin	16	1.6	0.39	ug/kg wet	14.1	86	57-120				
Endosulfan I	16	1.6	0.35	ug/kg wet	13.2	81	29-125				
Endosulfan II	16	1.6	0.29	ug/kg wet	13.3	81	39-121				
Endosulfan sulfate	16	1.6	0.30	ug/kg wet	13.1	80	43-120				
Endrin	16	1.6	0.53	ug/kg wet	14.5	89	54-127				
Endrin aldehyde	16	1.6	0.42	ug/kg wet	13.1	80	33-120				

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

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Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Organochlorine Pesticides by EPA Method 8081A

##### LCS Analyzed: 06/11/09 (Lab Number:9F09092-BS1, Batch: 9F09092)

Endrin ketone		16	1.6	0.40	ug/kg wet	14.0	86	50-150			
gamma-BHC (Lindane)		16	1.6	0.28	ug/kg wet	12.8	78	50-120			
Heptachlor		16	1.6	0.26	ug/kg wet	13.1	80	47-120			
Heptachlor epoxide		16	1.6	0.42	ug/kg wet	14.5	89	44-122			
Methoxychlor		16	1.6	0.44	ug/kg wet	16.2	99	46-152			

Surrogate: *Decachlorobiphenyl* ug/kg wet 101 42-146

Surrogate: *Tetrachloro-m-xylene* ug/kg wet 88 37-136

##### LCS Dup Analyzed: 06/11/09 (Lab Number:9F09092-BSD1, Batch: 9F09092)

4,4'-DDD		16	1.6	0.32	ug/kg wet	13.4	81	55-129	8	50	
4,4'-DDE		16	1.6	0.47	ug/kg wet	13.2	80	59-120	5	50	
4,4'-DDT		16	1.6	0.37	ug/kg wet	13.6	83	47-145	11	50	
Aldrin		16	1.6	0.17	ug/kg wet	10.6	65	35-120	17	50	
alpha-BHC		16	1.6	0.30	ug/kg wet	10.7	65	49-120	15	50	
beta-BHC		16	1.6	1.2	ug/kg wet	12.2	74	56-120	47	50	
delta-BHC		16	1.6	0.22	ug/kg wet	11.7	72	45-123	22	50	
Dieldrin		16	1.6	0.39	ug/kg wet	12.8	78	57-120	10	50	
Endosulfan I		16	1.6	0.35	ug/kg wet	12.0	73	29-125	10	50	
Endosulfan II		16	1.6	0.30	ug/kg wet	13.2	80	39-121	1	50	
Endosulfan sulfate		16	1.6	0.31	ug/kg wet	14.3	87	43-120	9	50	
Endrin		16	1.6	0.53	ug/kg wet	12.9	79	54-127	12	50	
Endrin aldehyde		16	1.6	0.42	ug/kg wet	15.4	94	33-120	16	50	
Endrin ketone		16	1.6	0.40	ug/kg wet	14.2	87	50-150	1	50	
gamma-BHC (Lindane)		16	1.6	0.29	ug/kg wet	11.0	67	50-120	15	50	
Heptachlor		16	1.6	0.26	ug/kg wet	11.2	68	47-120	16	50	
Heptachlor epoxide		16	1.6	0.42	ug/kg wet	13.0	79	44-122	12	50	
Methoxychlor		16	1.6	0.44	ug/kg wet	15.0	91	46-152	7	50	

Surrogate: *Decachlorobiphenyl* ug/kg wet 86 42-146

Surrogate: *Tetrachloro-m-xylene* ug/kg wet 74 37-136



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Polychlorinated Biphenyls by EPA Method 8082</u></b>											
<b>Blank Analyzed: 06/08/09 (Lab Number:9F07005-BLK1, Batch: 9F07005)</b>											
Aroclor 1016			17	3.3	ug/kg wet	ND					
Aroclor 1221			17	3.3	ug/kg wet	ND					
Aroclor 1232			17	3.3	ug/kg wet	ND					
Aroclor 1242			17	3.6	ug/kg wet	ND					
Aroclor 1248			17	3.3	ug/kg wet	ND					
Aroclor 1254			17	3.5	ug/kg wet	ND					
Aroclor 1260			17	3.5	ug/kg wet	ND					
<i>Surrogate:</i>						<i>ug/kg wet</i>	107	34-148			
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>						<i>ug/kg wet</i>	88	35-134			
<i>Tetrachloro-m-xylene</i>											
<b>LCS Analyzed: 06/08/09 (Lab Number:9F07005-BS1, Batch: 9F07005)</b>											
Aroclor 1016		160	17	3.2	ug/kg wet	134	81	59-154			
Aroclor 1221			17	3.2	ug/kg wet	ND		0-200			
Aroclor 1232			17	3.2	ug/kg wet	ND		0-200			
Aroclor 1242			17	3.6	ug/kg wet	ND		0-200			
Aroclor 1248			17	3.2	ug/kg wet	ND		0-200			
Aroclor 1254			17	3.5	ug/kg wet	ND		0-200			
Aroclor 1260		160	17	3.5	ug/kg wet	177	107	51-179			
<i>Surrogate:</i>						<i>ug/kg wet</i>	105	34-148			
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>						<i>ug/kg wet</i>	86	35-134			
<i>Tetrachloro-m-xylene</i>											
<b>LCS Dup Analyzed: 06/08/09 (Lab Number:9F07005-BSD1, Batch: 9F07005)</b>											
Aroclor 1016		160	16	3.2	ug/kg wet	138	84	59-154	3	50	
Aroclor 1221			16	3.2	ug/kg wet	ND		0-200		200	
Aroclor 1232			16	3.2	ug/kg wet	ND		0-200		200	
Aroclor 1242			16	3.6	ug/kg wet	ND		0-200		200	
Aroclor 1248			16	3.2	ug/kg wet	ND		0-200		200	
Aroclor 1254			16	3.5	ug/kg wet	ND		0-200		200	
Aroclor 1260		160	16	3.5	ug/kg wet	186	113	51-179	5	50	
<i>Surrogate:</i>						<i>ug/kg wet</i>	110	34-148			
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>						<i>ug/kg wet</i>	97	35-134			
<i>Tetrachloro-m-xylene</i>											

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 06/09/09 (Lab Number:9F07002-BLK1, Batch: 9F07002)</b>											
2,4,5-Trichlorophenol			170	36	ug/kg wet	ND					
2,4,6-Trichlorophenol			170	11	ug/kg wet	ND					
2,4-Dichlorophenol			170	8.7	ug/kg wet	ND					
2,4-Dimethylphenol			170	45	ug/kg wet	ND					
2,4-Dinitrophenol			330	58	ug/kg wet	ND					
2,4-Dinitrotoluene			170	26	ug/kg wet	ND					
2,6-Dinitrotoluene			170	41	ug/kg wet	ND					
2-Chloronaphthalene			170	11	ug/kg wet	ND					
2-Chlorophenol			170	8.5	ug/kg wet	ND					
2-Methylnaphthalene			170	2.0	ug/kg wet	ND					
2-Methylphenol			170	5.1	ug/kg wet	ND					
2-Nitroaniline			330	53	ug/kg wet	ND					
2-Nitrophenol			170	7.6	ug/kg wet	ND					
3,3'-Dichlorobenzidine			170	150	ug/kg wet	ND					
3-Nitroaniline			330	38	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol			330	57	ug/kg wet	ND					
4-Bromophenyl phenyl ether			170	53	ug/kg wet	ND					
4-Chloro-3-methylphenol			170	6.8	ug/kg wet	ND					
4-Chloroaniline			170	49	ug/kg wet	ND					
4-Chlorophenyl phenyl ether			170	3.5	ug/kg wet	ND					
4-Methylphenol			330	9.3	ug/kg wet	ND					
4-Nitroaniline			330	19	ug/kg wet	ND					
4-Nitrophenol			330	40	ug/kg wet	ND					
Acenaphthene			170	2.0	ug/kg wet	ND					
Acenaphthylene			170	1.4	ug/kg wet	ND					
Acetophenone			170	8.5	ug/kg wet	ND					
Anthracene			170	4.3	ug/kg wet	ND					
Atrazine			170	7.4	ug/kg wet	ND					
Benzaldehyde			170	18	ug/kg wet	ND					
Benzo[a]anthracene			170	2.9	ug/kg wet	ND					
Benzo[a]pyrene			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene			170	3.2	ug/kg wet	ND					
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND					
Biphenyl			170	10	ug/kg wet	ND					

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 06/09/09 (Lab Number:9F07002-BLK1, Batch: 9F07002)</b>											
Bis(2-chloroethoxy)methane			170	9.0	ug/kg wet	ND					
Bis(2-chloroethyl)ether			170	14	ug/kg wet	ND					
2,2'-Oxybis(1-Chloropropane)			170	17	ug/kg wet	ND					
Bis(2-ethylhexyl)phthalate			170	54	ug/kg wet	99					J
Butyl benzyl phthalate			170	45	ug/kg wet	ND					
Caprolactam			170	72	ug/kg wet	ND					
Carbazole			170	1.9	ug/kg wet	ND					
Chrysene			170	1.7	ug/kg wet	ND					
Dibenz[a,h]anthracene			170	2.0	ug/kg wet	ND					
Dibenzofuran			170	1.7	ug/kg wet	ND					
Diethyl phthalate			170	5.0	ug/kg wet	ND					
Dimethyl phthalate			170	4.3	ug/kg wet	ND					
Di-n-butyl phthalate			170	58	ug/kg wet	ND					
Di-n-octyl phthalate			170	3.9	ug/kg wet	ND					
Fluoranthene			170	2.4	ug/kg wet	ND					
Fluorene			170	3.8	ug/kg wet	ND					
Hexachlorobenzene			170	8.3	ug/kg wet	ND					
Hexachlorobutadiene			170	8.5	ug/kg wet	ND					
Hexachlorocyclopentadiene			170	50	ug/kg wet	ND					
Hexachloroethane			170	13	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND					
Isophorone			170	8.3	ug/kg wet	ND					
Naphthalene			170	2.8	ug/kg wet	ND					
Nitrobenzene			170	7.4	ug/kg wet	ND					
N-Nitrosodi-n-propylamine			170	13	ug/kg wet	ND					
N-Nitrosodiphenylamine			170	9.1	ug/kg wet	ND					
Pentachlorophenol			330	57	ug/kg wet	ND					
Phenanthrene			170	3.5	ug/kg wet	ND					
Phenol			170	18	ug/kg wet	ND					
Pyrene			170	1.1	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol					ug/kg wet		77	39-146			
Surrogate: 2-Fluorobiphenyl					ug/kg wet		84	37-120			
Surrogate: 2-Fluorophenol					ug/kg wet		73	18-120			

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Received: 06/04/09

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>Blank Analyzed: 06/09/09 (Lab Number:9F07002-BLK1, Batch: 9F07002)</b>											
Surrogate:					ug/kg wet		78	34-132			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/kg wet		81	11-120			
Surrogate:					ug/kg wet		84	58-147			
p-Terphenyl-d14											
<b>LCS Analyzed: 06/09/09 (Lab Number:9F07002-BS1, Batch: 9F07002)</b>											
2,4,5-Trichlorophenol		3300	170	36	ug/kg wet	3560	108	59-126			
2,4,6-Trichlorophenol		3300	170	11	ug/kg wet	3350	102	59-123			
2,4-Dichlorophenol		3300	170	8.7	ug/kg wet	3100	94	52-120			
2,4-Dimethylphenol		3300	170	45	ug/kg wet	2970	90	36-120			
2,4-Dinitrophenol		3300	330	58	ug/kg wet	3040	92	35-146			
2,4-Dinitrotoluene		3300	170	26	ug/kg wet	3390	103	55-125			
2,6-Dinitrotoluene		3300	170	41	ug/kg wet	3550	108	66-128			
2-Chloronaphthalene		3300	170	11	ug/kg wet	2970	90	57-120			
2-Chlorophenol		3300	170	8.5	ug/kg wet	2710	82	38-120			
2-Methylnaphthalene		3300	170	2.0	ug/kg wet	3130	95	47-120			
2-Methylphenol		3300	170	5.1	ug/kg wet	2970	90	48-120			
2-Nitroaniline		3300	330	53	ug/kg wet	3320	101	61-130			
2-Nitrophenol		3300	170	7.6	ug/kg wet	3010	91	50-120			
3,3'-Dichlorobenzidine		3300	170	150	ug/kg wet	3500	106	48-126			
3-Nitroaniline		3300	330	38	ug/kg wet	3240	98	61-127			
4,6-Dinitro-2-methylphenol		3300	330	58	ug/kg wet	3950	120	49-155			
4-Bromophenyl phenyl ether		3300	170	53	ug/kg wet	3630	110	58-131			
4-Chloro-3-methylphenol		3300	170	6.9	ug/kg wet	3460	105	49-125			
4-Chloroaniline		3300	170	49	ug/kg wet	3030	92	49-120			
4-Chlorophenyl phenyl ether		3300	170	3.6	ug/kg wet	3000	91	63-124			
4-Methylphenol		3300	330	9.3	ug/kg wet	3090	94	50-119			
4-Nitroaniline		3300	330	19	ug/kg wet	3340	102	63-128			
4-Nitrophenol		3300	330	40	ug/kg wet	3570	109	43-137			
Acenaphthene		3300	170	2.0	ug/kg wet	3190	97	53-120			
Acenaphthylene		3300	170	1.4	ug/kg wet	3260	99	58-121			
Acetophenone		3300	170	8.6	ug/kg wet	2970	90	66-120			
Anthracene		3300	170	4.3	ug/kg wet	3620	110	62-129			
Atrazine		3300	170	7.4	ug/kg wet	4080	124	73-133			
Benzaldehyde		3300	170	18	ug/kg wet	3160	96	21-120			
Benzo[a]anthracene		3300	170	2.9	ug/kg wet	3630	110	65-133			
Benzo[a]pyrene		3300	170	4.0	ug/kg wet	3840	117	64-127			

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

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Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>LCS Analyzed: 06/09/09 (Lab Number:9F07002-BS1, Batch: 9F07002)</b>											
Benzo[b]fluoranthene		3300	170	3.2	ug/kg wet	3590	109	64-135			
Benzo[g,h,i]perylene		3300	170	2.0	ug/kg wet	3620	110	50-152			
Benzo[k]fluoranthene		3300	170	1.8	ug/kg wet	3500	106	58-138			
Biphenyl		3300	170	10	ug/kg wet	2760	84	71-120			
Bis(2-chloroethoxy)methane		3300	170	9.1	ug/kg wet	2270	69	61-133			
Bis(2-chloroethyl)ether		3300	170	14	ug/kg wet	2590	79	45-120			
2,2'-Oxybis(1-Chloropropene)		3300	170	17	ug/kg wet	2520	77	44-120			
Bis(2-ethylhexyl) phthalate		3300	170	54	ug/kg wet	3400	103	61-133			B
Butyl benzyl phthalate		3300	170	45	ug/kg wet	3960	120	61-129			
Caprolactam		3300	170	72	ug/kg wet	3620	110	54-133			
Carbazole		3300	170	1.9	ug/kg wet	3550	108	59-129			
Chrysene		3300	170	1.7	ug/kg wet	3740	114	64-131			
Dibenz[a,h]anthracene		3300	170	2.0	ug/kg wet	3680	112	54-148			
Dibenzofuran		3300	170	1.7	ug/kg wet	3140	95	56-120			
Diethyl phthalate		3300	170	5.0	ug/kg wet	3480	106	66-126			
Dimethyl phthalate		3300	170	4.4	ug/kg wet	3440	105	65-124			
Di-n-butyl phthalate		3300	170	58	ug/kg wet	3490	106	58-130			
Di-n-octyl phthalate		3300	170	3.9	ug/kg wet	3720	113	62-133			
Fluoranthene		3300	170	2.4	ug/kg wet	3630	110	62-131			
Fluorene		3300	170	3.8	ug/kg wet	3290	100	63-126			
Hexachlorobenzene		3300	170	8.3	ug/kg wet	3500	106	60-132			
Hexachlorobutadiene		3300	170	8.5	ug/kg wet	2640	80	45-120			
Hexachlorocyclopentadiene		3300	170	50	ug/kg wet	2820	86	31-120			
Hexachloroethane		3300	170	13	ug/kg wet	2620	80	41-120			
Indeno[1,2,3-cd]pyrene		3300	170	4.6	ug/kg wet	3760	114	56-149			
Isophorone		3300	170	8.3	ug/kg wet	2930	89	56-120			
Naphthalene		3300	170	2.8	ug/kg wet	2940	89	46-120			
Nitrobenzene		3300	170	7.4	ug/kg wet	2850	87	49-120			
N-Nitrosodi-n-propylamine		3300	170	13	ug/kg wet	3080	94	46-120			
N-Nitrosodiphenylamine		3300	170	9.1	ug/kg wet	4240	129	20-119			L1
Pentachlorophenol		3300	330	57	ug/kg wet	3640	111	33-136			
Phenanthrene		3300	170	3.5	ug/kg wet	3620	110	60-130			
Phenol		3300	170	18	ug/kg wet	2860	87	36-120			
Pyrene		3300	170	1.1	ug/kg wet	3600	109	51-133			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 06/09/09 (Lab Number:9F07002-BS1, Batch: 9F07002)</b>											
Surrogate:					ug/kg wet		96	39-146			
2,4,6-Tribromophenol					ug/kg wet		83	37-120			
Surrogate:					ug/kg wet		73	18-120			
2-Fluorobiphenyl					ug/kg wet		84	34-132			
Surrogate:					ug/kg wet		79	11-120			
2-Fluorophenol					ug/kg wet		82	58-147			
Surrogate:					ug/kg wet						
Nitrobenzene-d5					ug/kg wet						
Surrogate: Phenol-d5					ug/kg wet						
Surrogate:					ug/kg wet						
p-Terphenyl-d14					ug/kg wet						
<b>LCS Dup Analyzed: 06/09/09 (Lab Number:9F07002-BSD1, Batch: 9F07002)</b>											
2,4,5-Trichlorophenol		3200	170	36	ug/kg wet	3290	101	59-126	8	18	
2,4,6-Trichlorophenol		3200	170	11	ug/kg wet	3330	103	59-123	1	19	
2,4-Dichlorophenol		3200	170	8.6	ug/kg wet	2990	92	52-120	4	19	
2,4-Dimethylphenol		3200	170	44	ug/kg wet	2930	90	36-120	1	42	
2,4-Dinitrophenol		3200	320	58	ug/kg wet	2860	88	35-146	6	22	
2,4-Dinitrotoluene		3200	170	25	ug/kg wet	3260	100	55-125	4	20	
2,6-Dinitrotoluene		3200	170	40	ug/kg wet	3370	104	66-128	5	15	
2-Chloronaphthalene		3200	170	11	ug/kg wet	2960	91	57-120	0	21	
2-Chlorophenol		3200	170	8.4	ug/kg wet	2690	83	38-120	1	25	
2-Methylnaphthalene		3200	170	2.0	ug/kg wet	3070	94	47-120	2	21	
2-Methylphenol		3200	170	5.1	ug/kg wet	3030	93	48-120	2	27	
2-Nitroaniline		3200	320	53	ug/kg wet	3190	98	61-130	4	15	
2-Nitrophenol		3200	170	7.5	ug/kg wet	3130	96	50-120	4	18	
3,3'-Dichlorobenzidine		3200	170	140	ug/kg wet	3410	105	48-126	3	25	
3-Nitroaniline		3200	320	38	ug/kg wet	3220	99	61-127	1	19	
4,6-Dinitro-2-methylphenol		3200	320	57	ug/kg wet	3570	110	49-155	10	15	
4-Bromophenyl phenyl ether		3200	170	52	ug/kg wet	3330	103	58-131	9	15	
4-Chloro-3-methylphenol		3200	170	6.8	ug/kg wet	3290	101	49-125	5	27	
4-Chloroaniline		3200	170	48	ug/kg wet	3010	93	49-120	1	22	
4-Chlorophenyl phenyl ether		3200	170	3.5	ug/kg wet	2910	90	63-124	3	16	
4-Methylphenol		3200	320	9.2	ug/kg wet	3080	95	50-119	0	24	
4-Nitroaniline		3200	320	18	ug/kg wet	3170	98	63-128	5	24	
4-Nitrophenol		3200	320	40	ug/kg wet	3160	97	43-137	12	25	
Acenaphthene		3200	170	1.9	ug/kg wet	3130	96	53-120	2	35	
Acenaphthylene		3200	170	1.3	ug/kg wet	3210	99	58-121	1	18	
Acetophenone		3200	170	8.4	ug/kg wet	3040	94	66-120	2	20	

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>LCS Dup Analyzed: 06/09/09 (Lab Number:9F07002-BSD1, Batch: 9F07002)</b>											
Anthracene		3200	170	4.2	ug/kg wet	3410	105	62-129	6	15	
Atrazine		3200	170	7.3	ug/kg wet	3880	120	73-133	5	20	
Benzaldehyde		3200	170	18	ug/kg wet	3460	106	21-120	9	20	
Benzo[a]anthracene		3200	170	2.8	ug/kg wet	3350	103	65-133	8	15	
Benzo[a]pyrene		3200	170	4.0	ug/kg wet	3640	112	64-127	5	15	
Benzo[b]fluoranthene		3200	170	3.2	ug/kg wet	3330	103	64-135	7	15	
Benzo[g,h,i]perylene		3200	170	2.0	ug/kg wet	3360	104	50-152	7	15	
Benzo[k]fluoranthene		3200	170	1.8	ug/kg wet	3250	100	58-138	7	22	
Biphenyl		3200	170	10	ug/kg wet	2750	85	71-120	1	20	
Bis(2-chloroethoxy)methane		3200	170	8.9	ug/kg wet	2220	69	61-133	2	17	
Bis(2-chloroethyl)ether		3200	170	14	ug/kg wet	2600	80	45-120	0	21	
2,2'-Oxybis(1-Chloropropene)		3200	170	17	ug/kg wet	2510	77	44-120	0	24	
Bis(2-ethylhexyl)phthalate		3200	170	53	ug/kg wet	3190	98	61-133	6	15	B
Butyl benzyl phthalate		3200	170	44	ug/kg wet	3730	115	61-129	6	16	
Caprolactam		3200	170	71	ug/kg wet	3330	103	54-133	8	20	
Carbazole		3200	170	1.9	ug/kg wet	3270	101	59-129	8	20	
Chrysene		3200	170	1.6	ug/kg wet	3430	106	64-131	9	15	
Dibenz[a,h]anthracene		3200	170	1.9	ug/kg wet	3390	105	54-148	8	15	
Dibenzofuran		3200	170	1.7	ug/kg wet	3060	94	56-120	3	15	
Diethyl phthalate		3200	170	5.0	ug/kg wet	3290	101	66-126	6	15	
Dimethyl phthalate		3200	170	4.3	ug/kg wet	3330	103	65-124	3	15	
Di-n-butyl phthalate		3200	170	57	ug/kg wet	3220	99	58-130	8	15	
Di-n-octyl phthalate		3200	170	3.8	ug/kg wet	3440	106	62-133	8	16	
Fluoranthene		3200	170	2.4	ug/kg wet	3340	103	62-131	9	15	
Fluorene		3200	170	3.8	ug/kg wet	3180	98	63-126	3	15	
Hexachlorobenzene		3200	170	8.2	ug/kg wet	3260	100	60-132	7	15	
Hexachlorobutadiene		3200	170	8.4	ug/kg wet	2600	80	45-120	2	44	
Hexachlorocyclopentadiene		3200	170	50	ug/kg wet	2900	89	31-120	3	49	
Hexachloroethane		3200	170	13	ug/kg wet	2580	80	41-120	2	46	
Indeno[1,2,3-cd]pyrene		3200	170	4.5	ug/kg wet	3500	108	56-149	7	15	
Isophorone		3200	170	8.2	ug/kg wet	2910	90	56-120	1	17	
Naphthalene		3200	170	2.7	ug/kg wet	2910	90	46-120	1	29	
Nitrobenzene		3200	170	7.3	ug/kg wet	2830	87	49-120	1	24	
N-Nitrosodi-n-propylamine		3200	170	13	ug/kg wet	3110	96	46-120	1	31	
N-Nitrosodiphenylamine		3200	170	9.0	ug/kg wet	4000	123	20-119	6	15	L1

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Work Order: RSF0166

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Semivolatile Organics by GC/MS</u>											
LCS Dup Analyzed: 06/09/09 (Lab Number:9F07002-BSD1, Batch: 9F07002)											
Pentachlorophenol		3200	320	56	ug/kg wet	3280	101	33-136	10	35	
Phenanthrene		3200	170	3.4	ug/kg wet	3400	105	60-130	6	15	
Phenol		3200	170	17	ug/kg wet	2890	89	36-120	1	35	
Pyrene		3200	170	1.1	ug/kg wet	3370	104	51-133	7	35	
Surrogate:					ug/kg wet		93	39-146			
2,4,6-Tribromophenol											
Surrogate:					ug/kg wet		84	37-120			
2-Fluorobiphenyl											
Surrogate:					ug/kg wet		74	18-120			
2-Fluorophenol											
Surrogate:					ug/kg wet		86	34-132			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/kg wet		83	11-120			
Surrogate:					ug/kg wet		77	58-147			
p-Terphenyl-d14											



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Total Metals by SW 846 Series Methods

#### Blank Analyzed: 06/05/09 (Lab Number:9F05003-BLK1, Batch: 9F05003)

Arsenic			2.0	NR	mg/kg wet	ND					B
Barium			0.500	NR	mg/kg wet	ND					B
Cadmium			0.200	NR	mg/kg wet	ND					
Chromium			0.500	NR	mg/kg wet	ND					
Selenium			4.0	NR	mg/kg wet	ND					
Silver			0.500	NR	mg/kg wet	ND					

#### Matrix Spike Analyzed: 06/08/09 (Lab Number:9F05003-MS1, Batch: 9F05003)

QC Source Sample: RSF0166-01

Arsenic	8.62	39.5	9.9	NR	mg/kg dry	53.4	113	75-125			D02
Barium	15.6	39.5	2.47	NR	mg/kg dry	51.9	92	75-125			D02
Cadmium	ND	39.5	0.987	NR	mg/kg dry	39.5	100	75-125			D02
Chromium	1.76	39.5	2.47	NR	mg/kg dry	40.0	97	75-125			D02
Selenium	ND	39.5	19.7	NR	mg/kg dry	40.2	102	75-125			D02
Silver	0.571	9.87	2.47	NR	mg/kg dry	10.5	101	75-125			D02

#### Matrix Spike Dup Analyzed: 06/08/09 (Lab Number:9F05003-MSD1, Batch: 9F05003)

QC Source Sample: RSF0166-01

Arsenic	8.62	42.6	10.7	NR	mg/kg dry	52.6	103	75-125	1	20	D02
Barium	15.6	42.6	2.66	NR	mg/kg dry	57.7	99	75-125	11	20	D02
Cadmium	ND	42.6	1.07	NR	mg/kg dry	43.8	103	75-125	10	20	D02
Chromium	1.76	42.6	2.66	NR	mg/kg dry	43.5	98	75-125	8	20	D02
Selenium	ND	42.6	21.3	NR	mg/kg dry	42.9	101	75-125	7	20	D02
Silver	0.571	10.7	2.66	NR	mg/kg dry	11.8	106	75-125	12	20	D02

#### Reference Analyzed: 06/05/09 (Lab Number:9F05003-SRM1, Batch: 9F05003)

Arsenic		123	2.0	NR	mg/kg wet	109	88	82.9-117.1			
Barium		257	0.501	NR	mg/kg wet	230	90	80.5-119.5			
Cadmium		259	0.200	NR	mg/kg wet	226	88	83.7-116.7			
Chromium		138	0.501	NR	mg/kg wet	127	92	81.9-118.1			
Selenium		199	4.0	NR	mg/kg wet	183	92	79.9-119.6			
Silver		62.5	0.501	NR	mg/kg wet	42.5	68	66.2-133.7			

#### Total Metals by SW 846 Series Methods

#### Blank Analyzed: 06/09/09 (Lab Number:9F05004-BLK1, Batch: 9F05004)

Lead			0.0250	NR	mg/kg wet	ND					B
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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Total Metals by SW 846 Series Methods

##### Matrix Spike Analyzed: 06/09/09 (Lab Number:9F05004-MS1, Batch: 9F05004)

QC Source Sample: RSF0166-02

Lead	0.527	41.7	0.261	NR	mg/kg dry	8.09	18	75-125			M1
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##### Matrix Spike Dup Analyzed: 06/09/09 (Lab Number:9F05004-MSD1, Batch: 9F05004)

QC Source Sample: RSF0166-02

Lead	0.527	40.2	0.251	NR	mg/kg dry	7.40	17	75-125	9	20	M1
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##### Reference Analyzed: 06/09/09 (Lab Number:9F05004-SRM1, Batch: 9F05004)

Lead		136	2.51	NR	mg/kg wet	154	113	80.9-119.9			
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#### Total Metals by SW 846 Series Methods

##### Blank Analyzed: 06/11/09 (Lab Number:9F09090-BLK1, Batch: 9F09090)

Mercury			0.0200	NR	mg/kg wet	ND					
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##### Reference Analyzed: 06/11/09 (Lab Number:9F09090-SRM1, Batch: 9F09090)

Mercury		1.77	0.106	NR	mg/kg wet	1.76	99	68.4-132.2			
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 06/10/09 (Lab Number:9F10037-BLK1, Batch: 9F10037)</b>											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND					
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene			5.0	0.61	ug/kg wet	ND					
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND					
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND					
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND					
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND					
2-Butanone (MEK)			25	6.8	ug/kg wet	ND					
2-Hexanone			25	1.7	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND					
Acetone			25	2.0	ug/kg wet	ND					
Benzene			5.0	0.25	ug/kg wet	ND					
Bromodichloromethane			5.0	0.26	ug/kg wet	ND					
Bromoform			5.0	0.46	ug/kg wet	ND					
Bromomethane			5.0	0.46	ug/kg wet	ND					
Carbon disulfide			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND					
Chlorobenzene			5.0	0.22	ug/kg wet	ND					
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND					
Chloroethane			5.0	0.81	ug/kg wet	ND					
Chloroform			5.0	0.31	ug/kg wet	ND					
Chloromethane			5.0	0.35	ug/kg wet	ND					
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene			5.0	0.29	ug/kg wet	ND					
Cyclohexane			5.0	0.23	ug/kg wet	ND					
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND					
Ethylbenzene			5.0	0.35	ug/kg wet	ND					
Isopropylbenzene			5.0	0.33	ug/kg wet	ND					

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Project: National Grid - Little Falls (Mill Street)  
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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 06/10/09 (Lab Number:9F10037-BLK1, Batch: 9F10037)</b>											
Methyl Acetate			5.0	0.17	ug/kg wet	ND					
Methyl tert-Butyl Ether			5.0	0.15	ug/kg wet	ND					
Methylcyclohexane			5.0	0.32	ug/kg wet	ND					
Methylene Chloride			5.0	0.35	ug/kg wet	ND					
Styrene			5.0	0.25	ug/kg wet	ND					
Tetrachloroethene			5.0	0.67	ug/kg wet	ND					
Toluene			5.0	0.51	ug/kg wet	ND					
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene			5.0	0.25	ug/kg wet	ND					
Trichloroethene			5.0	0.35	ug/kg wet	ND					
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND					
Vinyl chloride			10	0.20	ug/kg wet	ND					
Xylenes, total			10	0.84	ug/kg wet	ND					
<i>Surrogate:</i>						<i>ug/kg wet</i>	118	61-136			
<i>1,2-Dichloroethane-d4</i>											
<i>Surrogate:</i>						<i>ug/kg wet</i>	122	72-126			
<i>4-Bromofluorobenzene</i>											
<i>Surrogate: Toluene-d8</i>						<i>ug/kg wet</i>	115	71-125			
<b>LCS Analyzed: 06/10/09 (Lab Number:9F10037-BS1, Batch: 9F10037)</b>											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND		77-121			
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND		80-120			
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND		78-122			
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND		67-144			
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND		79-126			
1,1-Dichloroethene		50	NA	NR	ug/kg wet	49.5	99	70-142			
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND		73-120			
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND		66-122			
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND		78-120			
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND		82-114			
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND		77-122			
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND		81-119			
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND		82-114			
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND		82-113			
2-Butanone (MEK)			25	6.8	ug/kg wet	ND		70-134			
2-Hexanone			25	1.7	ug/kg wet	ND		72-130			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 06/10/09 (Lab Number:9F10037-BS1, Batch: 9F10037)</b>											
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND		74-128			
Acetone			25	2.0	ug/kg wet	7.44		61-137			J
Benzene		50	NA	NR	ug/kg wet	46.8	94	79-127			
Bromodichloromethane			5.0	0.26	ug/kg wet	ND		80-122			
Bromoform			5.0	0.46	ug/kg wet	ND		68-126			
Bromomethane			5.0	0.46	ug/kg wet	ND		43-151			
Carbon disulfide			5.0	0.43	ug/kg wet	ND		64-131			
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND		75-123			
Chlorobenzene		50	NA	NR	ug/kg wet	46.2	92	79-118			
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND		76-125			
Chloroethane			5.0	0.81	ug/kg wet	ND		69-135			
Chloroform			5.0	0.31	ug/kg wet	ND		80-118			
Chloromethane			5.0	0.35	ug/kg wet	ND		63-127			
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND		81-117			
cis-1,3-Dichloropropene			5.0	0.29	ug/kg wet	ND		82-120			
Cyclohexane			5.0	0.23	ug/kg wet	ND		70-130			
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND		57-142			
Ethylbenzene			5.0	0.35	ug/kg wet	ND		83-120			
Isopropylbenzene			5.0	0.33	ug/kg wet	ND		72-120			
Methyl Acetate			5.0	0.17	ug/kg wet	ND		60-140			
Methyl tert-Butyl Ether			5.0	0.15	ug/kg wet	ND		74-129			
Methylcyclohexane			5.0	0.32	ug/kg wet	ND		74-125			
Methylene Chloride			5.0	0.35	ug/kg wet	ND		61-127			
Styrene			5.0	0.25	ug/kg wet	ND		80-116			
Tetrachloroethene			5.0	0.67	ug/kg wet	ND		76-125			
Toluene		50	NA	NR	ug/kg wet	44.0	88	74-128			
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND		78-126			
trans-1,3-Dichloropropene			5.0	0.25	ug/kg wet	ND		80-119			
Trichloroethene		50	NA	NR	ug/kg wet	45.1	90	79-121			
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND		65-146			
Vinyl chloride			10	0.20	ug/kg wet	ND		67-127			
Xylenes, total			10	0.84	ug/kg wet	ND		82-120			
<i>Surrogate:</i>					<i>ug/kg wet</i>		<i>117</i>	<i>61-136</i>			
<i>1,2-Dichloroethane-d4</i>					<i>ug/kg wet</i>		<i>122</i>	<i>72-126</i>			
<i>4-Bromofluorobenzene</i>					<i>ug/kg wet</i>		<i>115</i>	<i>71-125</i>			
<i>Surrogate: Toluene-d8</i>					<i>ug/kg wet</i>						

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/04/09

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Matrix Spike Analyzed: 06/11/09 (Lab Number:9F10037-MS1, Batch: 9F10037)</b>											
<b>QC Source Sample: RSF0166-02</b>											
1,1,1-Trichloroethane	ND		5.2	0.38	ug/kg dry	ND		77-121			
1,1,2,2-Tetrachloroethane	ND		5.2	0.84	ug/kg dry	ND		80-120			
1,1,2-Trichloroethane	ND		5.2	0.26	ug/kg dry	ND		78-122			
1,1,2-Trichlorotrifluoroethane	ND		5.2	0.55	ug/kg dry	ND		67-144			
1,1-Dichloroethane	ND		5.2	0.26	ug/kg dry	ND		79-126			
1,1-Dichloroethene	ND	50	NA	NR	ug/kg dry	57.0	114	70-142			
1,2,4-Trichlorobenzene	ND		5.2	0.32	ug/kg dry	ND		73-120			
1,2-Dibromo-3-chloropropane	ND		5.2	1.0	ug/kg dry	ND		66-122			
1,2-Dibromoethane (EDB)	ND		5.2	0.20	ug/kg dry	ND		78-120			
1,2-Dichlorobenzene	ND		5.2	0.78	ug/kg dry	ND		82-114			
1,2-Dichloroethane	ND		5.2	0.26	ug/kg dry	1.28		77-122			J
1,2-Dichloropropane	ND		5.2	0.27	ug/kg dry	ND		81-119			
1,3-Dichlorobenzene	ND		5.2	0.73	ug/kg dry	ND		82-114			
1,4-Dichlorobenzene	ND		5.2	0.73	ug/kg dry	ND		82-113			
2-Butanone (MEK)	ND		26	7.1	ug/kg dry	ND		70-134			
2-Hexanone	ND		26	1.8	ug/kg dry	ND		72-130			
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/kg dry	ND		74-128			
Acetone	9.36		26	2.0	ug/kg dry	9.30		61-137			J
Benzene	ND	50	NA	NR	ug/kg dry	48.2	96	79-127			
Bromodichloromethane	ND		5.2	0.27	ug/kg dry	ND		80-122			
Bromoform	ND		5.2	0.48	ug/kg dry	ND		68-126			
Bromomethane	ND		5.2	0.48	ug/kg dry	ND		43-151			
Carbon disulfide	ND		5.2	0.44	ug/kg dry	ND		64-131			
Carbon Tetrachloride	ND		5.2	0.19	ug/kg dry	ND		75-123			
Chlorobenzene	ND	50	NA	NR	ug/kg dry	44.4	89	79-118			
Chlorodibromomethane	ND		5.2	0.29	ug/kg dry	ND		76-125			
Chloroethane	ND		5.2	0.84	ug/kg dry	ND		69-135			
Chloroform	ND		5.2	0.32	ug/kg dry	ND		80-118			
Chloromethane	ND		5.2	0.36	ug/kg dry	ND		63-127			
cis-1,2-Dichloroethene	ND		5.2	0.26	ug/kg dry	ND		81-117			
cis-1,3-Dichloropropene	ND		5.2	0.30	ug/kg dry	ND		82-120			
Cyclohexane	ND		5.2	0.24	ug/kg dry	ND		70-130			
Dichlorodifluoromethane	ND		5.2	0.43	ug/kg dry	ND		57-142			
Ethylbenzene	ND		5.2	0.36	ug/kg dry	ND		83-120			

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Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)

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Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Volatile Organic Compounds by EPA 8260B

**Matrix Spike Analyzed: 06/11/09 (Lab Number:9F10037-MS1, Batch: 9F10037)**

QC Source Sample: RSF0166-02

Isopropylbenzene	ND		5.2	0.34	ug/kg dry	ND		72-120			
Methyl Acetate	ND		5.2	0.18	ug/kg dry	ND		60-140			
Methyl tert-Butyl Ether	ND		5.2	0.16	ug/kg dry	ND		74-129			
Methylcyclohexane	ND		5.2	0.34	ug/kg dry	ND		74-125			
Methylene Chloride	28.2		5.2	0.36	ug/kg dry	24.4		61-127			
Styrene	ND		5.2	0.26	ug/kg dry	ND		80-116			
Tetrachloroethene	ND		5.2	0.70	ug/kg dry	ND		76-125			
Toluene	ND	50	NA	NR	ug/kg dry	45.3	91	74-128			
trans-1,2-Dichloroethene	ND		5.2	0.54	ug/kg dry	ND		78-126			
trans-1,3-Dichloropropene	ND		5.2	0.25	ug/kg dry	ND		80-119			
Trichloroethene	ND	50	NA	NR	ug/kg dry	46.5	93	79-121			
Trichlorofluoromethane	ND		5.2	1.6	ug/kg dry	ND		65-146			
Vinyl chloride	ND		10	0.21	ug/kg dry	ND		67-127			
Xylenes, total	ND		10	0.87	ug/kg dry	ND		82-120			

Surrogate:					ug/kg dry		107	61-136			
1,2-Dichloroethane-d4											
Surrogate:					ug/kg dry		121	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg dry		115	71-125			

**Matrix Spike Dup Analyzed: 06/11/09 (Lab Number:9F10037-MSD1, Batch: 9F10037)**

QC Source Sample: RSF0166-02

1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	ND		77-121		20	
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/kg dry	ND		80-120		20	
1,1,2-Trichloroethane	ND		5.1	0.26	ug/kg dry	ND		78-122		20	
1,1,2-Trichlorotrifluoroethane	ND		5.1	0.54	ug/kg dry	ND		67-144		20	
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	ND		79-126		20	
1,1-Dichloroethene	ND	50	NA	NR	ug/kg dry	61.5	123	70-142	7	22	
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	ND		73-120		20	
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	ND		66-122		20	
1,2-Dibromoethane (EDB)	ND		5.1	0.19	ug/kg dry	ND		78-120		20	
1,2-Dichlorobenzene	ND		5.1	0.77	ug/kg dry	ND		82-114		20	
1,2-Dichloroethane	ND		5.1	0.26	ug/kg dry	1.38		77-122	8	20	J
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	ND		81-119		20	
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	ND		82-114		20	
1,4-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	ND		82-113		20	

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Received: 06/04/09

Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Matrix Spike Dup Analyzed: 06/11/09 (Lab Number:9F10037-MSD1, Batch: 9F10037)</b>											
<b>QC Source Sample: RSF0166-02</b>											
2-Butanone (MEK)	ND		26	7.0	ug/kg dry	ND		70-134		20	
2-Hexanone	ND		26	1.8	ug/kg dry	ND		72-130		20	
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/kg dry	ND		74-128		20	
Acetone	9.36		26	2.0	ug/kg dry	9.84		61-137	6	15	J
Benzene	ND	50	NA	NR	ug/kg dry	53.1	106	79-127	10	20	
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	ND		80-122		20	
Bromoform	ND		5.1	0.47	ug/kg dry	ND		68-126		20	
Bromomethane	ND		5.1	0.47	ug/kg dry	ND		43-151		20	
Carbon disulfide	ND		5.1	0.44	ug/kg dry	ND		64-131		20	
Carbon Tetrachloride	ND		5.1	0.19	ug/kg dry	ND		75-123		20	
Chlorobenzene	ND	50	NA	NR	ug/kg dry	48.9	98	79-118	10	25	
Chlorodibromomethane	ND		5.1	0.28	ug/kg dry	ND		76-125		20	
Chloroethane	ND		5.1	0.83	ug/kg dry	ND		69-135		20	
Chloroform	ND		5.1	0.32	ug/kg dry	ND		80-118		20	
Chloromethane	ND		5.1	0.35	ug/kg dry	ND		63-127		20	
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	ND		81-117		20	
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	ND		82-120		20	
Cyclohexane	ND		5.1	0.24	ug/kg dry	ND		70-130		20	
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	ND		57-142		20	
Ethylbenzene	ND		5.1	0.35	ug/kg dry	ND		83-120		20	
Isopropylbenzene	ND		5.1	0.33	ug/kg dry	ND		72-120		20	
Methyl Acetate	ND		5.1	0.17	ug/kg dry	ND		60-140		20	
Methyl tert-Butyl Ether	ND		5.1	0.16	ug/kg dry	ND		74-129		20	
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	ND		74-125		20	
Methylene Chloride	28.2		5.1	0.36	ug/kg dry	29.3		61-127	18	15	
Styrene	ND		5.1	0.25	ug/kg dry	ND		80-116		20	
Tetrachloroethene	ND		5.1	0.69	ug/kg dry	ND		76-125		20	
Toluene	ND	50	NA	NR	ug/kg dry	49.4	99	74-128	9	20	
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/kg dry	ND		78-126		20	
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	ND		80-119		20	
Trichloroethene	ND	50	NA	NR	ug/kg dry	50.6	101	79-121	8	24	
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	ND		65-146		20	
Vinyl chloride	ND		10	0.21	ug/kg dry	ND		67-127		20	
Xylenes, total	ND		10	0.86	ug/kg dry	ND		82-120		20	

Surrogate:

1,2-Dichloroethane-d4

ug/kg dry

110

61-136

TestAmerica Buffalo

10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0166

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/04/09  
Reported: 06/12/09 16:09

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											

**Matrix Spike Dup Analyzed: 06/11/09 (Lab Number:9F10037-MSD1, Batch: 9F10037)**

QC Source Sample: RSF0166-02

Surrogate:					ug/kg dry		124	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg dry		118	71-125			



## Analytical Report

Work Order: RSF0812

### Project Description

National Grid - Little Falls (Mill Street)

For:

Project Manager

**ARCADIS U.S., Inc. - Syracuse, NY**

6723 Towpath Road, PO Box 66

Syracuse, NY 13214-0066



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Candace Fox

Project Manager

candace.fox@testamericainc.com

Monday, June 29, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

## TestAmerica Buffalo Current Certifications

**As of 1/27/2009**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>Arkansas</b>	CWA, RCRA, SOIL	88-0686
<b>California*</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida*</b>	NELAP CWA, RCRA	E87672
<b>Georgia*</b>	SDWA, NELAP CWA, RCRA	956
<b>Illinois*</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas*</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana*</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY0044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire*</b>	NELAP SDWA, CWA	233701
<b>New Jersey*</b>	NELAP, SDWA, CWA, RCRA,	NY455
<b>New York*</b>	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania*</b>	NELAP CWA, RCRA	68-00281
<b>Tennessee</b>	SDWA	02970
<b>Texas*</b>	NELAP CWA, RCRA	T104704412-08-TX
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>USDOE</b>	Department of Energy	DOECAP-STB
<b>Virginia</b>	SDWA	278
<b>Washington*</b>	NELAP CWA, RCRA	C1677
<b>Wisconsin</b>	CWA, RCRA	998310390
<b>West Virginia</b>	CWA, RCRA	252

\*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/19/09  
Reported: 06/29/09 12:49

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### **Case Narrative**

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

#### DATA QUALIFIERS AND DEFINITIONS

<b>B</b>	Analyte was detected in the associated Method Blank.
<b>C-01</b>	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.
<b>D02</b>	Dilution required due to sample matrix effects
<b>J</b>	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
<b>L2</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
<b>L4</b>	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
<b>M1</b>	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
<b>M8</b>	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
<b>QFL</b>	Florisil clean-up (EPA 3620) performed on extract.
<b>R2</b>	The RPD exceeded the acceptance limit.
<b>NR</b>	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

#### ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0812-01 (FM-03 (ROC2) - Solid)						Sampled: 06/18/09 13:00		Recvd: 06/19/09 09:01		
<u>Semivolatile Organics by GC/MS</u>										
Phenanthrene	7.4	J	180	3.7	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
<u>Total Metals by SW 846 Series Methods</u>										
Arsenic	6.4		2.0	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Barium	9.03		0.510	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Chromium	1.52		0.510	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Lead	9.08	D02	0.288	NR	mg/kg dry	10.0	06/24/09 10:38	ESW	9F23019	6020

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
FM-03 (ROC2)	RSF0812-01	Solid	06/18/09 13:00	06/19/09 09:01	



ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
<b>Sample ID: RSF0812-01 (FM-03 (ROC2) - Solid)</b>							<b>Sampled: 06/18/09 13:00</b>		<b>Recvd: 06/19/09 09:01</b>	
<b>General Chemistry Parameters</b>										
Cyanide	ND		0.9	NR	mg/kg dry	1.00	06/27/09 11:50	JME	9F26048	9012A
<b>Semivolatile Organics by GC/MS</b>										
2,4,5-Trichlorophenol	ND		180	39	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,4,6-Trichlorophenol	ND		180	12	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,4-Dichlorophenol	ND		180	9.3	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,4-Dimethylphenol	ND		180	48	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,4-Dinitrophenol	ND		350	62	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,4-Dinitrotoluene	ND		180	27	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,6-Dinitrotoluene	ND		180	43	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Chloronaphthalene	ND		180	12	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Chlorophenol	ND		180	9.0	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Methylnaphthalene	ND		180	2.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Methylphenol	ND		180	5.5	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Nitroaniline	ND		350	57	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2-Nitrophenol	ND		180	8.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
3,3'-Dichlorobenzidine	ND		180	160	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
3-Nitroaniline	ND		350	41	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4,6-Dinitro-2-methylphenol	ND		350	61	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Bromophenyl phenyl ether	ND		180	56	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Chloro-3-methylphenol	ND		180	7.3	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Chloroaniline	ND		180	52	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Chlorophenyl phenyl ether	ND		180	3.8	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Methylphenol	ND		350	9.9	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Nitroaniline	ND		350	20	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
4-Nitrophenol	ND		350	43	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Acenaphthene	ND		180	2.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Acenaphthylene	ND		180	1.5	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Acetophenone	ND	L4	180	9.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Anthracene	ND		180	4.5	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Atrazine	ND		180	7.9	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzaldehyde	ND		180	19	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzo[a]anthracene	ND		180	3.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzo[a]pyrene	ND		180	4.3	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzo[b]fluoranthene	ND		180	3.4	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzo[g,h,i]perylene	ND		180	2.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Benzo[k]fluoranthene	ND		180	2.0	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Biphenyl	ND		180	11	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Bis(2-chloroethoxy)methane	ND	L4	180	9.6	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Bis(2-chloroethyl)ether	ND		180	15	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
2,2'-Oxybis(1-Chloropropene)	ND		180	19	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Bis(2-ethylhexyl)phthalate	ND		180	57	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Butyl benzyl phthalate	ND		180	48	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Caprolactam	ND		180	77	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Carbazole	ND		180	2.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Chrysene	ND		180	1.8	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C

TestAmerica Buffalo

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
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Sample ID: RSF0812-01 (FM-03 (ROC2) - Solid) - cont.

Sampled: 06/18/09 13:00

Recvd: 06/19/09 09:01

#### Semivolatiles Organics by GC/MS - cont.

Dibenz[a,h]anthracene	ND		180	2.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Dibenzofuran	ND		180	1.8	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Diethyl phthalate	ND		180	5.4	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Dimethyl phthalate	ND		180	4.6	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Di-n-butyl phthalate	ND		180	61	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Di-n-octyl phthalate	ND		180	4.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Fluoranthene	ND		180	2.6	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Fluorene	ND		180	4.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Hexachlorobenzene	ND		180	8.8	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Hexachlorobutadiene	ND		180	9.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Hexachlorocyclopentadiene	ND		180	54	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Hexachloroethane	ND		180	14	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Indeno[1,2,3-cd]pyrene	ND		180	4.9	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Isophorone	ND		180	8.9	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Naphthalene	ND		180	3.0	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Nitrobenzene	ND		180	7.9	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
N-Nitrosodi-n-propylamine	ND		180	14	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
N-Nitrosodiphenylamine	ND		180	9.7	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Pentachlorophenol	ND		350	61	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Phenanthrene	7.4	J	180	3.7	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Phenol	ND		180	19	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C
Pyrene	ND		180	1.1	ug/kg dry	1.00	06/23/09 16:05	MKP	9F19080	8270C

2,4,6-Tribromophenol	70 %		Surr Limits: (39-146%)				06/23/09 16:05	MKP	9F19080	8270C
2-Fluorobiphenyl	59 %		Surr Limits: (37-120%)				06/23/09 16:05	MKP	9F19080	8270C
2-Fluorophenol	46 %		Surr Limits: (18-120%)				06/23/09 16:05	MKP	9F19080	8270C
Nitrobenzene-d5	55 %		Surr Limits: (34-132%)				06/23/09 16:05	MKP	9F19080	8270C
Phenol-d5	51 %		Surr Limits: (11-120%)				06/23/09 16:05	MKP	9F19080	8270C
p-Terphenyl-d14	70 %		Surr Limits: (58-147%)				06/23/09 16:05	MKP	9F19080	8270C

#### Total Metals by SW 846 Series Methods

Arsenic	6.4		2.0	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Barium	9.03		0.510	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Cadmium	ND		0.204	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Chromium	1.52		0.510	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Selenium	ND		4.1	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Silver	ND		0.510	NR	mg/kg dry	1.00	06/23/09 20:08	LMH	9F23018	6010B
Lead	9.08	D02	0.288	NR	mg/kg dry	10.0	06/24/09 10:38	ESW	9F23019	6020
Mercury	ND		0.0212	NR	mg/kg dry	1.00	06/22/09 17:00	MM	9F22037	7471A

#### Volatile Organic Compounds by EPA 8260B

1,1,1-Trichloroethane	ND		4.9	0.36	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,1,2-Trichloroethane	ND		4.9	0.25	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,1,2-Trichlorotrifluoroethane	ND		4.9	0.52	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,1-Dichloroethane	ND		4.9	0.24	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,1-Dichloroethene	ND		4.9	0.60	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0812-01 (FM-03 (ROC2) - Solid) - cont.						Sampled: 06/18/09 13:00		Recvd: 06/19/09 09:01		
<u>Volatile Organic Compounds by EPA 8260B - cont.</u>										
1,2-Dibromo-3-chloropropane	ND		4.9	0.98	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dibromoethane (EDB)	ND		4.9	0.19	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dichlorobenzene	ND		4.9	0.74	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dichloroethane	ND		4.9	0.25	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dichloropropane	ND		4.9	0.25	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,3-Dichlorobenzene	ND		4.9	0.69	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,4-Dichlorobenzene	ND		4.9	0.69	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Vinyl acetate	ND		25	1.0	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dichloroethene, Total	ND		9.8	2.6	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
2-Butanone (MEK)	ND		25	6.7	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
2-Hexanone	ND		25	1.7	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Acetone	ND		25	1.1	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Benzene	ND		4.9	0.24	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Bromodichloromethane	ND		4.9	0.25	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Bromoform	ND		4.9	0.45	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Bromomethane	ND		4.9	0.45	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Carbon disulfide	ND		4.9	0.42	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Carbon Tetrachloride	ND		4.9	0.18	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Chlorobenzene	ND		4.9	0.21	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Chlorodibromomethane	ND		4.9	0.27	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Chloroethane	ND		4.9	0.79	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Chloroform	ND		4.9	0.30	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Chloromethane	ND		4.9	0.30	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
cis-1,2-Dichloroethene	ND		4.9	0.24	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
cis-1,3-Dichloropropene	ND		4.9	0.28	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Cyclohexane	ND		4.9	0.23	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Dichlorodifluoromethane	ND		4.9	0.41	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Ethylbenzene	ND		4.9	0.34	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Isopropylbenzene	ND		4.9	0.32	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Methyl Acetate	ND		4.9	0.27	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Methyl tert-Butyl Ether	ND		4.9	0.48	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Methylcyclohexane	ND		4.9	0.32	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Methylene Chloride	ND		4.9	0.34	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Styrene	ND		4.9	0.25	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Tetrachloroethene	ND		4.9	0.66	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Toluene	ND		4.9	0.83	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
trans-1,3-Dichloropropene	ND		4.9	0.24	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Trichloroethene	ND		4.9	0.34	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Trichlorofluoromethane	ND		4.9	1.5	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Vinyl chloride	ND		9.8	0.20	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
Xylenes, total	ND		9.8	0.82	ug/kg dry	1.00	06/25/09 14:17	PQ	9F25058	8260B
1,2-Dichloroethane-d4	104 %		Surr Limits: (61-136%)				06/25/09 14:17	PQ	9F25058	8260B
4-Bromofluorobenzene	111 %		Surr Limits: (72-126%)				06/25/09 14:17	PQ	9F25058	8260B
Toluene-d8	115 %		Surr Limits: (71-125%)				06/25/09 14:17	PQ	9F25058	8260B

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0812-01RE1 (FM-03 (ROC2) - Solid)						Sampled: 06/18/09 13:00		Recvd: 06/19/09 09:01		
<u>Organochlorine Pesticides by EPA Method 8081A</u>										
4,4'-DDD	ND		1.7	0.34	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
4,4'-DDE	ND		1.7	0.50	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
4,4'-DDT	ND		1.7	0.40	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Aldrin	ND		1.7	0.18	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
alpha-BHC	ND		1.7	0.31	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
beta-BHC	ND		1.7	1.3	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Chlordane	ND		17	3.8	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
delta-BHC	ND		1.7	0.23	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Dieldrin	ND		1.7	0.42	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endosulfan I	ND		1.7	0.37	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endosulfan II	ND		1.7	0.31	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endosulfan sulfate	ND		1.7	0.32	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endrin	ND		1.7	0.56	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endrin aldehyde	ND		1.7	0.44	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Endrin ketone	ND		1.7	0.43	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
gamma-BHC (Lindane)	ND		1.7	0.30	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Heptachlor	ND		1.7	0.27	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Heptachlor epoxide	ND		1.7	0.45	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Methoxychlor	ND		1.7	0.46	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Toxaphene	ND		17	10	ug/kg dry	1.00	06/23/09 14:14	tch	9F23028	8081A
Decachlorobiphenyl	87 %		Surr Limits: (42-146%)				06/23/09 14:14	tch	9F23028	8081A
Tetrachloro-m-xylene	89 %		Surr Limits: (37-136%)				06/23/09 14:14	tch	9F23028	8081A
<u>Polychlorinated Biphenyls by EPA Method 8082</u>										
Aroclor 1221	ND	C-01	17	3.4	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Aroclor 1232	ND	C-01	17	3.4	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Aroclor 1242	ND	C-01	17	3.7	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Aroclor 1248	ND	C-01	17	3.4	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Aroclor 1254	ND	C-01	17	3.6	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Aroclor 1260	ND	C-01	17	3.6	ug/kg dry	1.00	06/23/09 07:15	JM	9F22063	8082
Decachlorobiphenyl	118 %	C-01	Surr Limits: (34-148%)				06/23/09 07:15	JM	9F22063	8082
Tetrachloro-m-xylene	93 %	C-01	Surr Limits: (35-134%)				06/23/09 07:15	JM	9F22063	8082

ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/19/09  
Reported: 06/29/09 12:49

**SAMPLE EXTRACTION DATA**

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
9012A	9F26048	RSF0812-01	0.57	g	50.00	mL	06/25/09 10:30	RJK	Cn Digestion
Organochlorine Pesticides by EPA Method 8081A									
8081A	9F23028	RSF0812-01RE'	30.37	g	10.00	mL	06/23/09 10:00	KB	3550B GC
Polychlorinated Biphenyls by EPA Method 8082									
8082	9F22063	RSF0812-01RE'	30.63	g	10.00	mL	06/22/09 15:00	BL	3550B GC
Semivolatile Organics by GC/MS									
8270C	9F19080	RSF0812-01	30.07	g	1.00	mL	06/20/09 08:00	CJM	3550B MB
Total Metals by SW 846 Series Methods									
6010B	9F23018	RSF0812-01	0.52	g	50.00	mL	06/23/09 09:45	MLD	3050B
6020	9F23019	RSF0812-01	0.46	g	50.00	mL	06/23/09 09:45	MLD	3050B
7471A	9F22037	RSF0812-01	0.60	g	50.00	mL	06/22/09 14:35	MM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9F25058	RSF0812-01	5.36	g	5.00	mL	06/25/09 11:14	PJQ	5030B MS

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Project Number: [none]

Received: 06/19/09  
Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### General Chemistry Parameters

**Blank Analyzed: 06/27/09 (Lab Number:9F26048-BLK1, Batch: 9F26048)**

Cyanide			1.0	NR	mg/kg wet	ND					
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**LCS Analyzed: 06/27/09 (Lab Number:9F26048-BS1, Batch: 9F26048)**

Cyanide		34.4	1.0	NR	mg/kg wet	22.4	65	40-160			
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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

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Received: 06/19/09

Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Organochlorine Pesticides by EPA Method 8081A

##### Blank Analyzed: 06/23/09 (Lab Number:9F23028-BLK1, Batch: 9F23028)

4,4'-DDD			1.6	0.31	ug/kg wet	ND					
4,4'-DDE			1.6	0.47	ug/kg wet	ND					
4,4'-DDT			1.6	0.37	ug/kg wet	ND					
Aldrin			1.6	0.17	ug/kg wet	ND					
alpha-BHC			1.6	0.29	ug/kg wet	ND					
beta-BHC			1.6	1.2	ug/kg wet	ND					
Chlordane			16	3.6	ug/kg wet	ND					
delta-BHC			1.6	0.21	ug/kg wet	ND					
Dieldrin			1.6	0.39	ug/kg wet	ND					
Endosulfan I			1.6	0.34	ug/kg wet	ND					
Endosulfan II			1.6	0.29	ug/kg wet	ND					
Endosulfan sulfate			1.6	0.30	ug/kg wet	ND					
Endrin			1.6	0.52	ug/kg wet	ND					
Endrin aldehyde			1.6	0.41	ug/kg wet	ND					
Endrin ketone			1.6	0.40	ug/kg wet	ND					
gamma-BHC (Lindane)			1.6	0.28	ug/kg wet	ND					
Heptachlor			1.6	0.25	ug/kg wet	ND					
Heptachlor epoxide			1.6	0.42	ug/kg wet	ND					
Methoxychlor			1.6	0.43	ug/kg wet	ND					
Toxaphene			16	9.4	ug/kg wet	ND					

Surrogate:					ug/kg wet		81	42-146			
Decachlorobiphenyl											
Surrogate:					ug/kg wet		86	37-136			
Tetrachloro-m-xylene											

##### LCS Analyzed: 06/23/09 (Lab Number:9F23028-BS1, Batch: 9F23028)

4,4'-DDD	16	1.6	0.32	ug/kg wet	14.1	86	55-129				
4,4'-DDE	16	1.6	0.47	ug/kg wet	13.5	83	59-120				
4,4'-DDT	16	1.6	0.37	ug/kg wet	14.1	86	47-145				
Aldrin	16	1.6	0.17	ug/kg wet	12.6	77	35-120				
alpha-BHC	16	1.6	0.29	ug/kg wet	13.8	84	49-120				
beta-BHC	16	1.6	1.2	ug/kg wet	14.4	88	56-120				
delta-BHC	16	1.6	0.22	ug/kg wet	14.3	88	45-123				
Dieldrin	16	1.6	0.39	ug/kg wet	13.7	84	57-120				
Endosulfan I	16	1.6	0.35	ug/kg wet	11.1	68	29-125				
Endosulfan II	16	1.6	0.29	ug/kg wet	13.5	83	39-121				
Endosulfan sulfate	16	1.6	0.31	ug/kg wet	18.9	115	43-120				
Endrin	16	1.6	0.53	ug/kg wet	13.5	82	54-127				
Endrin aldehyde	16	1.6	0.42	ug/kg wet	16.4	100	33-120				

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Work Order: RSF0812

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Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Organochlorine Pesticides by EPA Method 8081A

#### **LCS Analyzed: 06/23/09 (Lab Number:9F23028-BS1, Batch: 9F23028)**

Endrin ketone		16	1.6	0.40	ug/kg wet	15.2	93	50-150			
gamma-BHC (Lindane)		16	1.6	0.28	ug/kg wet	13.8	85	50-120			
Heptachlor		16	1.6	0.26	ug/kg wet	13.6	83	47-120			
Heptachlor epoxide		16	1.6	0.42	ug/kg wet	14.1	86	44-122			
Methoxychlor		16	1.6	0.44	ug/kg wet	15.2	93	46-152			

Surrogate: *Decachlorobiphenyl* ug/kg wet 84 42-146

Surrogate: *Tetrachloro-m-xylene* ug/kg wet 88 37-136

#### **LCS Dup Analyzed: 06/23/09 (Lab Number:9F23028-BSD1, Batch: 9F23028)**

4,4'-DDD		16	1.6	0.32	ug/kg wet	14.2	87	55-129	0.7	50	
4,4'-DDE		16	1.6	0.47	ug/kg wet	13.5	83	59-120	0.2	50	
4,4'-DDT		16	1.6	0.37	ug/kg wet	14.3	88	47-145	2	50	
Aldrin		16	1.6	0.17	ug/kg wet	12.4	76	35-120	2	50	
alpha-BHC		16	1.6	0.29	ug/kg wet	13.5	83	49-120	2	50	
beta-BHC		16	1.6	1.2	ug/kg wet	14.2	87	56-120	1	50	
delta-BHC		16	1.6	0.22	ug/kg wet	14.2	87	45-123	0.8	50	
Dieldrin		16	1.6	0.39	ug/kg wet	13.7	84	57-120	0.02	50	
Endosulfan I		16	1.6	0.35	ug/kg wet	11.0	68	29-125	1	50	
Endosulfan II		16	1.6	0.29	ug/kg wet	13.5	83	39-121	0.08	50	
Endosulfan sulfate		16	1.6	0.30	ug/kg wet	18.9	116	43-120	0.009	50	
Endrin		16	1.6	0.53	ug/kg wet	13.4	82	54-127	0.8	50	
Endrin aldehyde		16	1.6	0.42	ug/kg wet	16.4	101	33-120	0.4	50	
Endrin ketone		16	1.6	0.40	ug/kg wet	15.3	94	50-150	0.7	50	
gamma-BHC (Lindane)		16	1.6	0.28	ug/kg wet	13.5	83	50-120	2	50	
Heptachlor		16	1.6	0.26	ug/kg wet	13.6	83	47-120	0.4	50	
Heptachlor epoxide		16	1.6	0.42	ug/kg wet	14.1	87	44-122	0.3	50	
Methoxychlor		16	1.6	0.44	ug/kg wet	15.4	95	46-152	2	50	

Surrogate: *Decachlorobiphenyl* ug/kg wet 85 42-146

Surrogate: *Tetrachloro-m-xylene* ug/kg wet 86 37-136



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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/19/09  
Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Polychlorinated Biphenyls by EPA Method 8082</u></b>											
<b>Blank Analyzed: 06/23/09 (Lab Number:9F22063-BLK1, Batch: 9F22063)</b>											
Aroclor 1016			17	3.2	ug/kg wet	ND					C-01
Aroclor 1221			17	3.2	ug/kg wet	ND					C-01
Aroclor 1232			17	3.2	ug/kg wet	ND					C-01
Aroclor 1242			17	3.6	ug/kg wet	ND					C-01
Aroclor 1248			17	3.2	ug/kg wet	ND					C-01
Aroclor 1254			17	3.5	ug/kg wet	17					C-01,B
Aroclor 1260			17	3.5	ug/kg wet	ND					C-01
<i>Surrogate:</i>					<i>ug/kg wet</i>		118	34-148			C-01
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					<i>ug/kg wet</i>		95	35-134			C-01
<i>Tetrachloro-m-xylene</i>											
<b>LCS Analyzed: 06/23/09 (Lab Number:9F22063-BS1, Batch: 9F22063)</b>											
Aroclor 1016		160	16	3.2	ug/kg wet	144	89	59-154			C-01
Aroclor 1221			16	3.2	ug/kg wet	ND					C-01
Aroclor 1232			16	3.2	ug/kg wet	ND					C-01
Aroclor 1242			16	3.5	ug/kg wet	ND					C-01
Aroclor 1248			16	3.2	ug/kg wet	ND					C-01
Aroclor 1254			16	3.4	ug/kg wet	ND					C-01
Aroclor 1260		160	16	3.4	ug/kg wet	181	112	51-179			C-01
<i>Surrogate:</i>					<i>ug/kg wet</i>		115	34-148			C-01
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					<i>ug/kg wet</i>		101	35-134			C-01
<i>Tetrachloro-m-xylene</i>											
<b>LCS Dup Analyzed: 06/23/09 (Lab Number:9F22063-BSD1, Batch: 9F22063)</b>											
Aroclor 1016		160	16	3.2	ug/kg wet	139	86	59-154	4	50	C-01
Aroclor 1221			16	3.2	ug/kg wet	ND					C-01
Aroclor 1232			16	3.2	ug/kg wet	ND					C-01
Aroclor 1242			16	3.5	ug/kg wet	ND					C-01
Aroclor 1248			16	3.2	ug/kg wet	ND					C-01
Aroclor 1254			16	3.4	ug/kg wet	ND					C-01
Aroclor 1260		160	16	3.4	ug/kg wet	176	109	51-179	2	50	C-01
<i>Surrogate:</i>					<i>ug/kg wet</i>		114	34-148			C-01
<i>Decachlorobiphenyl</i>											
<i>Surrogate:</i>					<i>ug/kg wet</i>		93	35-134			C-01
<i>Tetrachloro-m-xylene</i>											

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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 06/23/09 (Lab Number:9F19080-BLK1, Batch: 9F19080)</b>											
2,4,5-Trichlorophenol			170	36	ug/kg wet	ND					
2,4,6-Trichlorophenol			170	11	ug/kg wet	ND					
2,4-Dichlorophenol			170	8.7	ug/kg wet	ND					
2,4-Dimethylphenol			170	45	ug/kg wet	ND					
2,4-Dinitrophenol			320	58	ug/kg wet	ND					
2,4-Dinitrotoluene			170	26	ug/kg wet	ND					
2,6-Dinitrotoluene			170	40	ug/kg wet	ND					
2-Chloronaphthalene			170	11	ug/kg wet	ND					
2-Chlorophenol			170	8.4	ug/kg wet	ND					
2-Methylnaphthalene			170	2.0	ug/kg wet	ND					
2-Methylphenol			170	5.1	ug/kg wet	ND					
2-Nitroaniline			320	53	ug/kg wet	ND					
2-Nitrophenol			170	7.5	ug/kg wet	ND					
3,3'-Dichlorobenzidine			170	140	ug/kg wet	ND					
3-Nitroaniline			320	38	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol			320	57	ug/kg wet	ND					
4-Bromophenyl phenyl ether			170	53	ug/kg wet	ND					
4-Chloro-3-methylphenol			170	6.8	ug/kg wet	ND					
4-Chloroaniline			170	48	ug/kg wet	ND					
4-Chlorophenyl phenyl ether			170	3.5	ug/kg wet	ND					
4-Methylphenol			320	9.2	ug/kg wet	ND					
4-Nitroaniline			320	18	ug/kg wet	ND					
4-Nitrophenol			320	40	ug/kg wet	ND					
Acenaphthene			170	1.9	ug/kg wet	ND					
Acenaphthylene			170	1.4	ug/kg wet	ND					
Acetophenone			170	8.5	ug/kg wet	ND					
Anthracene			170	4.2	ug/kg wet	ND					
Atrazine			170	7.3	ug/kg wet	ND					
Benzaldehyde			170	18	ug/kg wet	ND					
Benzo[a]anthracene			170	2.9	ug/kg wet	ND					
Benzo[a]pyrene			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene			170	3.2	ug/kg wet	ND					
Benzo[g,h,i]perylene			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene			170	1.8	ug/kg wet	ND					
Biphenyl			170	10	ug/kg wet	ND					

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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

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Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 06/23/09 (Lab Number:9F19080-BLK1, Batch: 9F19080)</b>											
Bis(2-chloroethoxy)methane			170	9.0	ug/kg wet	ND					
Bis(2-chloroethyl)ether			170	14	ug/kg wet	ND					
2,2'-Oxybis(1-Chloropropane)			170	17	ug/kg wet	ND					
Bis(2-ethylhexyl)phthalate			170	53	ug/kg wet	ND					
Butyl benzyl phthalate			170	44	ug/kg wet	ND					
Caprolactam			170	71	ug/kg wet	ND					
Carbazole			170	1.9	ug/kg wet	ND					
Chrysene			170	1.7	ug/kg wet	ND					
Dibenz[a,h]anthracene			170	1.9	ug/kg wet	ND					
Dibenzofuran			170	1.7	ug/kg wet	ND					
Diethyl phthalate			170	5.0	ug/kg wet	ND					
Dimethyl phthalate			170	4.3	ug/kg wet	ND					
Di-n-butyl phthalate			170	57	ug/kg wet	ND					
Di-n-octyl phthalate			170	3.9	ug/kg wet	ND					
Fluoranthene			170	2.4	ug/kg wet	ND					
Fluorene			170	3.8	ug/kg wet	ND					
Hexachlorobenzene			170	8.2	ug/kg wet	ND					
Hexachlorobutadiene			170	8.4	ug/kg wet	ND					
Hexachlorocyclopentadiene			170	50	ug/kg wet	ND					
Hexachloroethane			170	13	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene			170	4.6	ug/kg wet	ND					
Isophorone			170	8.3	ug/kg wet	ND					
Naphthalene			170	2.7	ug/kg wet	ND					
Nitrobenzene			170	7.3	ug/kg wet	ND					
N-Nitrosodi-n-propylamine			170	13	ug/kg wet	ND					
N-Nitrosodiphenylamine			170	9.0	ug/kg wet	ND					
Pentachlorophenol			320	57	ug/kg wet	ND					
Phenanthrene			170	3.5	ug/kg wet	ND					
Phenol			170	17	ug/kg wet	ND					
Pyrene			170	1.1	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol					ug/kg wet		71	39-146			
Surrogate: 2-Fluorobiphenyl					ug/kg wet		51	37-120			
Surrogate: 2-Fluorophenol					ug/kg wet		43	18-120			

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Received: 06/19/09

Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>Blank Analyzed: 06/23/09 (Lab Number:9F19080-BLK1, Batch: 9F19080)</b>											
Surrogate:					ug/kg wet		50	34-132			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/kg wet		48	11-120			
Surrogate:					ug/kg wet		71	58-147			
p-Terphenyl-d14											
<b>LCS Analyzed: 06/23/09 (Lab Number:9F19080-BS1, Batch: 9F19080)</b>											
2,4,5-Trichlorophenol		3300	170	36	ug/kg wet	3300	101	59-126			
2,4,6-Trichlorophenol		3300	170	11	ug/kg wet	3240	100	59-123			
2,4-Dichlorophenol		3300	170	8.6	ug/kg wet	2890	89	52-120			
2,4-Dimethylphenol		3300	170	44	ug/kg wet	2730	84	36-120			
2,4-Dinitrophenol		3300	320	58	ug/kg wet	3490	107	35-146			
2,4-Dinitrotoluene		3300	170	26	ug/kg wet	3550	109	55-125			
2,6-Dinitrotoluene		3300	170	40	ug/kg wet	3300	102	66-128			
2-Chloronaphthalene		3300	170	11	ug/kg wet	2830	87	57-120			
2-Chlorophenol		3300	170	8.4	ug/kg wet	2310	71	38-120			
2-Methylnaphthalene		3300	170	2.0	ug/kg wet	2820	87	47-120			
2-Methylphenol		3300	170	5.1	ug/kg wet	2580	79	48-120			
2-Nitroaniline		3300	320	53	ug/kg wet	3480	107	61-130			
2-Nitrophenol		3300	170	7.5	ug/kg wet	2790	86	50-120			
3,3'-Dichlorobenzidine		3300	170	140	ug/kg wet	3160	97	48-126			
3-Nitroaniline		3300	320	38	ug/kg wet	3160	97	61-127			
4,6-Dinitro-2-methylphenol		3300	320	57	ug/kg wet	3910	120	49-155			
4-Bromophenyl phenyl ether		3300	170	52	ug/kg wet	2970	91	58-131			
4-Chloro-3-methylphenol		3300	170	6.8	ug/kg wet	3130	96	49-125			
4-Chloroaniline		3300	170	48	ug/kg wet	2810	86	49-120			
4-Chlorophenyl phenyl ether		3300	170	3.5	ug/kg wet	2830	87	63-124			
4-Methylphenol		3300	320	9.2	ug/kg wet	2660	82	50-119			
4-Nitroaniline		3300	320	18	ug/kg wet	3270	101	63-128			
4-Nitrophenol		3300	320	40	ug/kg wet	3460	106	43-137			
Acenaphthene		3300	170	1.9	ug/kg wet	3070	94	53-120			
Acenaphthylene		3300	170	1.3	ug/kg wet	3060	94	58-121			
Acetophenone		3300	170	8.5	ug/kg wet	2430	75	66-120			
Anthracene		3300	170	4.2	ug/kg wet	3200	98	62-129			
Atrazine		3300	170	7.3	ug/kg wet	3300	101	73-133			
Benzaldehyde		3300	170	18	ug/kg wet	2830	87	21-120			
Benzo[a]anthracene		3300	170	2.8	ug/kg wet	3380	104	65-133			
Benzo[a]pyrene		3300	170	4.0	ug/kg wet	3520	108	64-127			

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Received: 06/19/09

Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>LCS Analyzed: 06/23/09 (Lab Number:9F19080-BS1, Batch: 9F19080)</b>											
Benzo[b]fluoranthene		3300	170	3.2	ug/kg wet	3110	96	64-135			
Benzo[g,h,i]perylene		3300	170	2.0	ug/kg wet	3390	104	50-152			
Benzo[k]fluoranthene		3300	170	1.8	ug/kg wet	3280	101	58-138			
Biphenyl		3300	170	10	ug/kg wet	2760	85	71-120			
Bis(2-chloroethoxy)methane		3300	170	9.0	ug/kg wet	2000	62	61-133			
Bis(2-chloroethyl)ether		3300	170	14	ug/kg wet	2100	65	45-120			
2,2'-Oxybis(1-Chloropropene)		3300	170	17	ug/kg wet	2140	66	44-120			
Bis(2-ethylhexyl)phthalate		3300	170	53	ug/kg wet	2990	92	61-133			
Butyl benzyl phthalate		3300	170	44	ug/kg wet	3290	101	61-129			
Caprolactam		3300	170	71	ug/kg wet	3020	93	54-133			
Carbazole		3300	170	1.9	ug/kg wet	3290	101	59-129			
Chrysene		3300	170	1.6	ug/kg wet	3470	107	64-131			
Dibenz[a,h]anthracene		3300	170	1.9	ug/kg wet	3600	111	54-148			
Dibenzofuran		3300	170	1.7	ug/kg wet	2980	92	56-120			
Diethyl phthalate		3300	170	5.0	ug/kg wet	3210	99	66-126			
Dimethyl phthalate		3300	170	4.3	ug/kg wet	3090	95	65-124			
Di-n-butyl phthalate		3300	170	57	ug/kg wet	3110	96	58-130			
Di-n-octyl phthalate		3300	170	3.9	ug/kg wet	3180	98	62-133			
Fluoranthene		3300	170	2.4	ug/kg wet	3390	104	62-131			
Fluorene		3300	170	3.8	ug/kg wet	3130	96	63-126			
Hexachlorobenzene		3300	170	8.2	ug/kg wet	2980	92	60-132			
Hexachlorobutadiene		3300	170	8.4	ug/kg wet	2360	73	45-120			
Hexachlorocyclopentadiene		3300	170	50	ug/kg wet	2610	80	31-120			
Hexachloroethane		3300	170	13	ug/kg wet	2140	66	41-120			
Indeno[1,2,3-cd]pyrene		3300	170	4.6	ug/kg wet	3540	109	56-149			
Isophorone		3300	170	8.2	ug/kg wet	2560	79	56-120			
Naphthalene		3300	170	2.7	ug/kg wet	2600	80	46-120			
Nitrobenzene		3300	170	7.3	ug/kg wet	2540	78	49-120			
N-Nitrosodi-n-propylamine		3300	170	13	ug/kg wet	2500	77	46-120			
N-Nitrosodiphenylamine		3300	170	9.0	ug/kg wet	3650	112	20-119			
Pentachlorophenol		3300	320	57	ug/kg wet	3400	105	33-136			
Phenanthrene		3300	170	3.5	ug/kg wet	3180	98	60-130			
Phenol		3300	170	17	ug/kg wet	2380	73	36-120			
Pyrene		3300	170	1.1	ug/kg wet	3080	95	51-133			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Semivolatile Organics by GC/MS</u></b>											
<b>LCS Analyzed: 06/23/09 (Lab Number:9F19080-BS1, Batch: 9F19080)</b>											
Surrogate:					ug/kg wet		88	39-146			
2,4,6-Tribromophenol					ug/kg wet		80	37-120			
Surrogate:					ug/kg wet		60	18-120			
2-Fluorobiphenyl					ug/kg wet		75	34-132			
Surrogate:					ug/kg wet		67	11-120			
2-Fluorophenol					ug/kg wet		74	58-147			
Surrogate:					ug/kg wet						
Nitrobenzene-d5					ug/kg wet						
Surrogate: Phenol-d5					ug/kg wet						
Surrogate:					ug/kg wet						
p-Terphenyl-d14					ug/kg wet						
<b>LCS Dup Analyzed: 06/23/09 (Lab Number:9F19080-BSD1, Batch: 9F19080)</b>											
2,4,5-Trichlorophenol		3300	170	36	ug/kg wet	3090	94	59-126	6	18	
2,4,6-Trichlorophenol		3300	170	11	ug/kg wet	3000	91	59-123	8	19	
2,4-Dichlorophenol		3300	170	8.8	ug/kg wet	2570	78	52-120	12	19	
2,4-Dimethylphenol		3300	170	45	ug/kg wet	2510	76	36-120	8	42	
2,4-Dinitrophenol		3300	330	59	ug/kg wet	3530	107	35-146	1	22	
2,4-Dinitrotoluene		3300	170	26	ug/kg wet	3530	107	55-125	0.4	20	
2,6-Dinitrotoluene		3300	170	41	ug/kg wet	3280	99	66-128	0.8	15	
2-Chloronaphthalene		3300	170	11	ug/kg wet	2600	79	57-120	8	21	
2-Chlorophenol		3300	170	8.5	ug/kg wet	1990	60	38-120	15	25	
2-Methylnaphthalene		3300	170	2.0	ug/kg wet	2550	77	47-120	10	21	
2-Methylphenol		3300	170	5.1	ug/kg wet	2340	71	48-120	9	27	
2-Nitroaniline		3300	330	54	ug/kg wet	3340	101	61-130	4	15	
2-Nitrophenol		3300	170	7.6	ug/kg wet	2410	73	50-120	14	18	
3,3'-Dichlorobenzidine		3300	170	150	ug/kg wet	3130	95	48-126	1	25	
3-Nitroaniline		3300	330	38	ug/kg wet	3150	95	61-127	0.3	19	
4,6-Dinitro-2-methylphenol		3300	330	58	ug/kg wet	3970	120	49-155	2	15	
4-Bromophenyl phenyl ether		3300	170	53	ug/kg wet	2920	88	58-131	2	15	
4-Chloro-3-methylphenol		3300	170	6.9	ug/kg wet	2980	90	49-125	5	27	
4-Chloroaniline		3300	170	49	ug/kg wet	2600	79	49-120	8	22	
4-Chlorophenyl phenyl ether		3300	170	3.6	ug/kg wet	2700	82	63-124	5	16	
4-Methylphenol		3300	330	9.3	ug/kg wet	2400	73	50-119	10	24	
4-Nitroaniline		3300	330	19	ug/kg wet	3350	101	63-128	2	24	
4-Nitrophenol		3300	330	41	ug/kg wet	3460	105	43-137	0.02	25	
Acenaphthene		3300	170	2.0	ug/kg wet	2910	88	53-120	6	35	
Acenaphthylene		3300	170	1.4	ug/kg wet	2870	87	58-121	6	18	
Acetophenone		3300	170	8.6	ug/kg wet	2160	65	66-120	12	20	L2

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Work Order: RSF0812

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Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b>Semivolatile Organics by GC/MS</b>											
<b>LCS Dup Analyzed: 06/23/09 (Lab Number:9F19080-BSD1, Batch: 9F19080)</b>											
Anthracene		3300	170	4.3	ug/kg wet	3180	96	62-129	0.7	15	
Atrazine		3300	170	7.4	ug/kg wet	3340	101	73-133	1	20	
Benzaldehyde		3300	170	18	ug/kg wet	2530	77	21-120	11	20	
Benzo[a]anthracene		3300	170	2.9	ug/kg wet	3250	99	65-133	4	15	
Benzo[a]pyrene		3300	170	4.0	ug/kg wet	3380	102	64-127	4	15	
Benzo[b]fluoranthene		3300	170	3.2	ug/kg wet	3090	94	64-135	0.8	15	
Benzo[g,h,i]perylene		3300	170	2.0	ug/kg wet	3200	97	50-152	6	15	
Benzo[k]fluoranthene		3300	170	1.8	ug/kg wet	3160	96	58-138	4	22	
Biphenyl		3300	170	10	ug/kg wet	2540	77	71-120	8	20	
Bis(2-chloroethoxy)methane		3300	170	9.1	ug/kg wet	1800	54	61-133	11	17	L2
Bis(2-chloroethyl)ether		3300	170	14	ug/kg wet	1810	55	45-120	15	21	
2,2'-Oxybis(1-Chloropropene)		3300	170	17	ug/kg wet	1850	56	44-120	15	24	
Bis(2-ethylhexyl)phthalate		3300	170	54	ug/kg wet	2870	87	61-133	4	15	
Butyl benzyl phthalate		3300	170	45	ug/kg wet	3160	96	61-129	4	16	
Caprolactam		3300	170	72	ug/kg wet	3120	94	54-133	3	20	
Carbazole		3300	170	1.9	ug/kg wet	3220	97	59-129	2	20	
Chrysene		3300	170	1.7	ug/kg wet	3320	100	64-131	4	15	
Dibenz[a,h]anthracene		3300	170	2.0	ug/kg wet	3420	103	54-148	5	15	
Dibenzofuran		3300	170	1.7	ug/kg wet	2860	87	56-120	4	15	
Diethyl phthalate		3300	170	5.1	ug/kg wet	3130	95	66-126	3	15	
Dimethyl phthalate		3300	170	4.4	ug/kg wet	2990	90	65-124	4	15	
Di-n-butyl phthalate		3300	170	58	ug/kg wet	3090	93	58-130	0.7	15	
Di-n-octyl phthalate		3300	170	3.9	ug/kg wet	3040	92	62-133	4	16	
Fluoranthene		3300	170	2.4	ug/kg wet	3290	100	62-131	3	15	
Fluorene		3300	170	3.9	ug/kg wet	2960	90	63-126	5	15	
Hexachlorobenzene		3300	170	8.3	ug/kg wet	2990	91	60-132	0.3	15	
Hexachlorobutadiene		3300	170	8.6	ug/kg wet	2030	61	45-120	15	44	
Hexachlorocyclopentadiene		3300	170	51	ug/kg wet	2360	71	31-120	10	49	
Hexachloroethane		3300	170	13	ug/kg wet	1860	56	41-120	14	46	
Indeno[1,2,3-cd]pyrene		3300	170	4.6	ug/kg wet	3410	103	56-149	4	15	
Isophorone		3300	170	8.4	ug/kg wet	2390	72	56-120	7	17	
Naphthalene		3300	170	2.8	ug/kg wet	2330	70	46-120	11	29	
Nitrobenzene		3300	170	7.4	ug/kg wet	2280	69	49-120	11	24	
N-Nitrosodi-n-propylamine		3300	170	13	ug/kg wet	2260	68	46-120	10	31	
N-Nitrosodiphenylamine		3300	170	9.1	ug/kg wet	3580	108	20-119	2	15	

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Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)  
Project Number: [none]

Received: 06/19/09  
Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<u>Semivolatile Organics by GC/MS</u>											
LCS Dup Analyzed: 06/23/09 (Lab Number:9F19080-BSD1, Batch: 9F19080)											
Pentachlorophenol		3300	330	57	ug/kg wet	3270	99	33-136	4	35	
Phenanthrene		3300	170	3.5	ug/kg wet	3130	95	60-130	2	15	
Phenol		3300	170	18	ug/kg wet	2110	64	36-120	12	35	
Pyrene		3300	170	1.1	ug/kg wet	3010	91	51-133	2	35	
Surrogate:					ug/kg wet		87	39-146			
2,4,6-Tribromophenol											
Surrogate:					ug/kg wet		72	37-120			
2-Fluorobiphenyl											
Surrogate:					ug/kg wet		51	18-120			
2-Fluorophenol											
Surrogate:					ug/kg wet		66	34-132			
Nitrobenzene-d5											
Surrogate: Phenol-d5					ug/kg wet		57	11-120			
Surrogate:					ug/kg wet		71	58-147			
p-Terphenyl-d14											



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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Total Metals by SW 846 Series Methods

##### Blank Analyzed: 06/22/09 (Lab Number:9F22037-BLK1, Batch: 9F22037)

Mercury			0.0199	NR	mg/kg wet	ND					
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##### Reference Analyzed: 06/22/09 (Lab Number:9F22037-SRM1, Batch: 9F22037)

Mercury		1.77	0.106	NR	mg/kg wet	1.62	91	68.4-132.2			
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#### Total Metals by SW 846 Series Methods

##### Blank Analyzed: 06/23/09 (Lab Number:9F23018-BLK1, Batch: 9F23018)

Arsenic			2.0	NR	mg/kg wet	ND					
Barium			0.500	NR	mg/kg wet	ND					B
Cadmium			0.200	NR	mg/kg wet	ND					
Chromium			0.500	NR	mg/kg wet	ND					
Selenium			4.0	NR	mg/kg wet	ND					
Silver			0.500	NR	mg/kg wet	ND					B

##### Matrix Spike Analyzed: 06/23/09 (Lab Number:9F23018-MS1, Batch: 9F23018)

QC Source Sample: RSF0812-01

Arsenic	6.40	40.1	2.0	NR	mg/kg dry	42.1	89	75-125			
Barium	9.03	40.1	0.501	NR	mg/kg dry	46.5	93	75-125			
Cadmium	0.0459	40.1	0.200	NR	mg/kg dry	35.3	88	75-125			
Chromium	1.52	40.1	0.501	NR	mg/kg dry	38.4	92	75-125			
Selenium	ND	40.1	4.0	NR	mg/kg dry	35.9	90	75-125			
Silver	0.120	10.0	0.501	NR	mg/kg dry	10.1	99	75-125			

##### Matrix Spike Dup Analyzed: 06/23/09 (Lab Number:9F23018-MSD1, Batch: 9F23018)

QC Source Sample: RSF0812-01

Arsenic	6.40	41.0	2.0	NR	mg/kg dry	39.5	81	75-125	6	20	
Barium	9.03	41.0	0.512	NR	mg/kg dry	43.6	84	75-125	6	20	
Cadmium	0.0459	41.0	0.205	NR	mg/kg dry	35.2	86	75-125	0.1	20	
Chromium	1.52	41.0	0.512	NR	mg/kg dry	42.0	99	75-125	9	20	
Selenium	ND	41.0	4.1	NR	mg/kg dry	35.4	86	75-125	1	20	
Silver	0.120	10.2	0.512	NR	mg/kg dry	9.93	96	75-125	1	20	

##### Reference Analyzed: 06/23/09 (Lab Number:9F23018-SRM1, Batch: 9F23018)

Arsenic		123	2.0	NR	mg/kg wet	110	89	82.9-117.1			
Barium		256	0.499	NR	mg/kg wet	243	95	80.5-119.5			
Cadmium		258	0.200	NR	mg/kg wet	235	91	83.7-116.7			
Chromium		138	0.499	NR	mg/kg wet	131	95	81.9-118.1			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Total Metals by SW 846 Series Methods</u></b>											
<b>Reference Analyzed: 06/23/09 (Lab Number:9F23018-SRM1, Batch: 9F23018)</b>											
Selenium		199	4.0	NR	mg/kg wet	181	91	79.9-119.6			
Silver		62.3	0.499	NR	mg/kg wet	56.6	91	66.2-133.7			
<b><u>Total Metals by SW 846 Series Methods</u></b>											
<b>Blank Analyzed: 06/24/09 (Lab Number:9F23019-BLK1, Batch: 9F23019)</b>											
Lead			0.250	NR	mg/kg wet	ND					D02
<b>Matrix Spike Analyzed: 06/24/09 (Lab Number:9F23019-MS1, Batch: 9F23019)</b>											
QC Source Sample: RSF0812-01											
Lead	9.08	4.16	0.260	NR	mg/kg dry	35.3	631	75-125			D02,M1
<b>Matrix Spike Dup Analyzed: 06/24/09 (Lab Number:9F23019-MSD1, Batch: 9F23019)</b>											
QC Source Sample: RSF0812-01											
Lead	9.08	4.40	0.275	NR	mg/kg dry	14.6	125	75-125	83	20	D02,R2
<b>Reference Analyzed: 06/24/09 (Lab Number:9F23019-SRM1, Batch: 9F23019)</b>											
Lead		136	2.50	NR	mg/kg wet	161	118	80.9-119.9			D02

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Blank Analyzed: 06/25/09 (Lab Number:9F25058-BLK1, Batch: 9F25058)</b>											
1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND					
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene			5.0	0.61	ug/kg wet	ND					
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND					
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND					
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND					
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND					
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND					
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND					
Vinyl acetate			25	1.0	ug/kg wet	ND					
1,2-Dichloroethene, Total			10	2.6	ug/kg wet	ND					
2-Butanone (MEK)			25	6.8	ug/kg wet	ND					
2-Hexanone			25	1.7	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND					
Acetone			25	1.1	ug/kg wet	ND					
Benzene			5.0	0.24	ug/kg wet	ND					
Bromodichloromethane			5.0	0.26	ug/kg wet	ND					
Bromoform			5.0	0.46	ug/kg wet	ND					
Bromomethane			5.0	0.46	ug/kg wet	ND					
Carbon disulfide			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND					
Chlorobenzene			5.0	0.22	ug/kg wet	ND					
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND					
Chloroethane			5.0	0.81	ug/kg wet	ND					
Chloroform			5.0	0.31	ug/kg wet	ND					
Chloromethane			5.0	0.30	ug/kg wet	ND					
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene			5.0	0.28	ug/kg wet	ND					
Cyclohexane			5.0	0.23	ug/kg wet	ND					
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND					

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Volatile Organic Compounds by EPA 8260B

##### **Blank Analyzed: 06/25/09 (Lab Number:9F25058-BLK1, Batch: 9F25058)**

Ethylbenzene			5.0	0.34	ug/kg wet	ND					
Isopropylbenzene			5.0	0.33	ug/kg wet	ND					
Methyl Acetate			5.0	0.27	ug/kg wet	ND					
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND					
Methylcyclohexane			5.0	0.32	ug/kg wet	ND					
Methylene Chloride			5.0	0.35	ug/kg wet	ND					
Styrene			5.0	0.25	ug/kg wet	ND					
Tetrachloroethene			5.0	0.67	ug/kg wet	ND					
Toluene			5.0	0.85	ug/kg wet	ND					
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene			5.0	0.24	ug/kg wet	ND					
Trichloroethene			5.0	0.34	ug/kg wet	ND					
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND					
Vinyl chloride			10	0.20	ug/kg wet	ND					
Xylenes, total			10	0.84	ug/kg wet	ND					

<i>Surrogate:</i>					ug/kg wet		106	61-136			
<i>1,2-Dichloroethane-d4</i>											
<i>Surrogate:</i>					ug/kg wet		112	72-126			
<i>4-Bromofluorobenzene</i>											
<i>Surrogate: Toluene-d8</i>					ug/kg wet		117	71-125			

##### **LCS Analyzed: 06/25/09 (Lab Number:9F25058-BS1, Batch: 9F25058)**

1,1,1-Trichloroethane			5.0	0.36	ug/kg wet	ND		77-121			
1,1,2,2-Tetrachloroethane			5.0	0.81	ug/kg wet	ND		80-120			
1,1,2-Trichloroethane			5.0	0.25	ug/kg wet	ND		78-122			
1,1,2-Trichlorotrifluoroethane			5.0	0.53	ug/kg wet	ND		67-144			
1,1-Dichloroethane			5.0	0.25	ug/kg wet	ND		79-126			
1,1-Dichloroethene		50	5.0	0.61	ug/kg wet	50.6	101	70-142			
1,2,4-Trichlorobenzene			5.0	0.30	ug/kg wet	ND		73-120			
1,2-Dibromo-3-chloropropane			5.0	1.0	ug/kg wet	ND		66-122			
1,2-Dibromoethane (EDB)			5.0	0.19	ug/kg wet	ND		78-120			
1,2-Dichlorobenzene			5.0	0.75	ug/kg wet	ND		82-114			
1,2-Dichloroethane			5.0	0.25	ug/kg wet	ND		77-122			
1,2-Dichloropropane			5.0	0.26	ug/kg wet	ND		81-119			
1,3-Dichlorobenzene			5.0	0.71	ug/kg wet	ND		82-114			
1,4-Dichlorobenzene			5.0	0.70	ug/kg wet	ND		82-113			
2-Butanone (MEK)			25	6.8	ug/kg wet	ND		70-134			

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### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>LCS Analyzed: 06/25/09 (Lab Number:9F25058-BS1, Batch: 9F25058)</b>											
2-Hexanone			25	1.7	ug/kg wet	ND		72-130			
4-Methyl-2-pentanone (MIBK)			25	1.6	ug/kg wet	ND		74-128			
Acetone			25	1.1	ug/kg wet	ND		61-137			
Benzene		50	5.0	0.24	ug/kg wet	45.2	90	79-127			
Bromodichloromethane			5.0	0.26	ug/kg wet	ND		80-122			
Bromoform			5.0	0.46	ug/kg wet	ND		68-126			
Bromomethane			5.0	0.46	ug/kg wet	ND		43-151			
Carbon disulfide			5.0	0.43	ug/kg wet	ND		64-131			
Carbon Tetrachloride			5.0	0.18	ug/kg wet	ND		75-123			
Chlorobenzene		50	5.0	0.22	ug/kg wet	47.1	94	79-118			
Chlorodibromomethane			5.0	0.28	ug/kg wet	ND		76-125			
Chloroethane			5.0	0.81	ug/kg wet	ND		69-135			
Chloroform			5.0	0.31	ug/kg wet	ND		80-118			
Chloromethane			5.0	0.30	ug/kg wet	ND		63-127			
cis-1,2-Dichloroethene			5.0	0.25	ug/kg wet	ND		81-117			
cis-1,3-Dichloropropene			5.0	0.28	ug/kg wet	ND		82-120			
Cyclohexane			5.0	0.23	ug/kg wet	ND		70-130			
Dichlorodifluoromethane			5.0	0.41	ug/kg wet	ND		57-142			
Ethylbenzene			5.0	0.34	ug/kg wet	ND		83-120			
Isopropylbenzene			5.0	0.33	ug/kg wet	ND		72-120			
Methyl Acetate			5.0	0.27	ug/kg wet	ND		60-140			
Methyl tert-Butyl Ether			5.0	0.49	ug/kg wet	ND		74-129			
Methylcyclohexane			5.0	0.32	ug/kg wet	ND		74-125			
Methylene Chloride			5.0	0.35	ug/kg wet	ND		61-127			
Styrene			5.0	0.25	ug/kg wet	ND		80-116			
Tetrachloroethene			5.0	0.67	ug/kg wet	ND		76-125			
Toluene		50	5.0	0.85	ug/kg wet	45.7	91	74-128			
trans-1,2-Dichloroethene			5.0	0.52	ug/kg wet	ND		78-126			
trans-1,3-Dichloropropene			5.0	0.24	ug/kg wet	ND		80-119			
Trichloroethene		50	5.0	0.34	ug/kg wet	44.4	89	79-121			
Trichlorofluoromethane			5.0	1.6	ug/kg wet	ND		65-146			
Vinyl chloride			10	0.20	ug/kg wet	ND		67-127			
Xylenes, total			10	0.84	ug/kg wet	ND		82-120			

Surrogate: ug/kg wet 100 61-136

1,2-Dichloroethane-d4

Surrogate: ug/kg wet 109 72-126

4-Bromofluorobenzene

Surrogate: Toluene-d8 ug/kg wet 115 71-125

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**Volatile Organic Compounds by EPA 8260B**

**LCS Analyzed: 06/25/09 (Lab Number:9F25058-BS1, Batch: 9F25058)**

**Matrix Spike Analyzed: 06/25/09 (Lab Number:9F25058-MS1, Batch: 9F25058)**

QC Source Sample: RSF0812-01

1,1,1-Trichloroethane	ND		5.0	0.36	ug/kg dry	ND		77-121
1,1,2,2-Tetrachloroethane	ND		5.0	0.80	ug/kg dry	ND		80-120
1,1,2-Trichloroethane	ND		5.0	0.25	ug/kg dry	ND		78-122
1,1,2-Trichlorotrifluoroethane	ND		5.0	0.53	ug/kg dry	ND		67-144
1,1-Dichloroethane	ND		5.0	0.24	ug/kg dry	ND		79-126
1,1-Dichloroethene	ND	50	5.0	0.61	ug/kg dry	45.6	92	70-142
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/kg dry	ND		73-120
1,2-Dibromo-3-chloropropane	ND		5.0	0.99	ug/kg dry	ND		66-122
1,2-Dibromoethane (EDB)	ND		5.0	0.19	ug/kg dry	ND		78-120
1,2-Dichlorobenzene	ND		5.0	0.75	ug/kg dry	ND		82-114
1,2-Dichloroethane	ND		5.0	0.25	ug/kg dry	ND		77-122
1,2-Dichloropropane	ND		5.0	0.25	ug/kg dry	ND		81-119
1,3-Dichlorobenzene	ND		5.0	0.70	ug/kg dry	ND		82-114
1,4-Dichlorobenzene	ND		5.0	0.69	ug/kg dry	ND		82-113
2-Butanone (MEK)	ND		25	6.7	ug/kg dry	ND		70-134
2-Hexanone	ND		25	1.7	ug/kg dry	ND		72-130
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/kg dry	ND		74-128
Acetone	ND		25	1.1	ug/kg dry	ND		61-137
Benzene	ND	50	5.0	0.24	ug/kg dry	45.8	92	79-127
Bromodichloromethane	ND		5.0	0.25	ug/kg dry	ND		80-122
Bromoform	ND		5.0	0.46	ug/kg dry	ND		68-126
Bromomethane	ND		5.0	0.45	ug/kg dry	ND		43-151
Carbon disulfide	ND		5.0	0.43	ug/kg dry	ND		64-131
Carbon Tetrachloride	ND		5.0	0.18	ug/kg dry	ND		75-123
Chlorobenzene	ND	50	5.0	0.22	ug/kg dry	42.6	86	79-118
Chlorodibromomethane	ND		5.0	0.27	ug/kg dry	ND		76-125
Chloroethane	ND		5.0	0.80	ug/kg dry	ND		69-135
Chloroform	ND		5.0	0.31	ug/kg dry	ND		80-118
Chloromethane	ND		5.0	0.30	ug/kg dry	ND		63-127
cis-1,2-Dichloroethene	ND		5.0	0.24	ug/kg dry	ND		81-117
cis-1,3-Dichloropropene	ND		5.0	0.28	ug/kg dry	ND		82-120
Cyclohexane	ND		5.0	0.23	ug/kg dry	ND		70-130
Dichlorodifluoromethane	ND		5.0	0.41	ug/kg dry	ND		57-142
Ethylbenzene	ND		5.0	0.34	ug/kg dry	ND		83-120
Isopropylbenzene	ND		5.0	0.33	ug/kg dry	ND		72-120
Methyl Acetate	ND		5.0	0.27	ug/kg dry	ND		60-140

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ARCADIS U.S., Inc. - Syracuse, NY  
6723 Towpath Road, PO Box 66  
Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

Project Number: [none]

Received: 06/19/09

Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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#### Volatile Organic Compounds by EPA 8260B

#### Matrix Spike Analyzed: 06/25/09 (Lab Number:9F25058-MS1, Batch: 9F25058)

QC Source Sample: RSF0812-01

Methyl tert-Butyl Ether	ND		5.0	0.49	ug/kg dry	ND		74-129			
Methylcyclohexane	ND		5.0	0.32	ug/kg dry	ND		74-125			
Methylene Chloride	ND		5.0	0.35	ug/kg dry	ND		61-127			
Styrene	ND		5.0	0.25	ug/kg dry	ND		80-116			
Tetrachloroethene	ND		5.0	0.67	ug/kg dry	ND		76-125			
Toluene	ND	50	5.0	0.84	ug/kg dry	44.4	90	74-128			
trans-1,2-Dichloroethene	ND		5.0	0.51	ug/kg dry	ND		78-126			
trans-1,3-Dichloropropene	ND		5.0	0.24	ug/kg dry	ND		80-119			
Trichloroethene	ND	50	5.0	0.34	ug/kg dry	41.5	84	79-121			
Trichlorofluoromethane	ND		5.0	1.6	ug/kg dry	ND		65-146			
Vinyl chloride	ND		9.9	0.20	ug/kg dry	ND		67-127			
Xylenes, total	ND		9.9	0.83	ug/kg dry	ND		82-120			

Surrogate:					ug/kg dry		98	61-136			
1,2-Dichloroethane-d4											
Surrogate:					ug/kg dry		113	72-126			
4-Bromofluorobenzene											
Surrogate: Toluene-d8					ug/kg dry		120	71-125			

#### Matrix Spike Dup Analyzed: 06/25/09 (Lab Number:9F25058-MSD1, Batch: 9F25058)

QC Source Sample: RSF0812-01

1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	ND		77-121		20	
1,1,2,2-Tetrachloroethane	ND		5.1	0.82	ug/kg dry	ND		80-120		20	
1,1,2-Trichloroethane	ND		5.1	0.25	ug/kg dry	ND		78-122		20	
1,1,2-Trichlorotrifluoroethane	ND		5.1	0.54	ug/kg dry	ND		67-144		20	
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	ND		79-126		20	
1,1-Dichloroethene	ND	51	5.1	0.62	ug/kg dry	43.2	85	70-142	5	22	
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	ND		73-120		20	
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	ND		66-122		20	
1,2-Dibromoethane (EDB)	ND		5.1	0.19	ug/kg dry	ND		78-120		20	
1,2-Dichlorobenzene	ND		5.1	0.76	ug/kg dry	ND		82-114		20	
1,2-Dichloroethane	ND		5.1	0.25	ug/kg dry	ND		77-122		20	
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	ND		81-119		20	
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	ND		82-114		20	
1,4-Dichlorobenzene	ND		5.1	0.71	ug/kg dry	ND		82-113		20	
2-Butanone (MEK)	ND		25	6.9	ug/kg dry	ND		70-134		20	
2-Hexanone	ND		25	1.8	ug/kg dry	ND		72-130		20	

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Syracuse, NY 13214-0066

Work Order: RSF0812

Project: National Grid - Little Falls (Mill Street)

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Reported: 06/29/09 12:49

### LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
<b><u>Volatile Organic Compounds by EPA 8260B</u></b>											
<b>Matrix Spike Dup Analyzed: 06/25/09 (Lab Number:9F25058-MSD1, Batch: 9F25058)</b>											
<b>QC Source Sample: RSF0812-01</b>											
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/kg dry	ND		74-128		20	
Acetone	ND		25	1.1	ug/kg dry	ND		61-137		15	
Benzene	ND	51	5.1	0.25	ug/kg dry	42.4	84	79-127	8	20	
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	ND		80-122		20	
Bromoform	ND		5.1	0.47	ug/kg dry	ND		68-126		20	
Bromomethane	ND		5.1	0.46	ug/kg dry	ND		43-151		20	
Carbon disulfide	ND		5.1	0.43	ug/kg dry	ND		64-131		20	
Carbon Tetrachloride	ND		5.1	0.18	ug/kg dry	ND		75-123		20	
Chlorobenzene	ND	51	5.1	0.22	ug/kg dry	40.2	80	79-118	6	25	
Chlorodibromomethane	ND		5.1	0.28	ug/kg dry	ND		76-125		20	
Chloroethane	ND		5.1	0.82	ug/kg dry	ND		69-135		20	
Chloroform	ND		5.1	0.31	ug/kg dry	ND		80-118		20	
Chloromethane	ND		5.1	0.31	ug/kg dry	ND		63-127		20	
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	ND		81-117		20	
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	ND		82-120		20	
Cyclohexane	ND		5.1	0.23	ug/kg dry	ND		70-130		20	
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	ND		57-142		20	
Ethylbenzene	ND		5.1	0.35	ug/kg dry	ND		83-120		20	
Isopropylbenzene	ND		5.1	0.33	ug/kg dry	ND		72-120		20	
Methyl Acetate	ND		5.1	0.27	ug/kg dry	ND		60-140		20	
Methyl tert-Butyl Ether	ND		5.1	0.50	ug/kg dry	ND		74-129		20	
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	ND		74-125		20	
Methylene Chloride	ND		5.1	0.35	ug/kg dry	ND		61-127		15	
Styrene	ND		5.1	0.25	ug/kg dry	ND		80-116		20	
Tetrachloroethene	ND		5.1	0.68	ug/kg dry	ND		76-125		20	
Toluene	ND	51	5.1	0.86	ug/kg dry	41.5	82	74-128	7	20	
trans-1,2-Dichloroethene	ND		5.1	0.52	ug/kg dry	ND		78-126		20	
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	ND		80-119		20	
Trichloroethene	ND	51	5.1	0.35	ug/kg dry	37.9	75	79-121	9	24	M8
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	ND		65-146		20	
Vinyl chloride	ND		10	0.21	ug/kg dry	ND		67-127		20	
Xylenes, total	ND		10	0.85	ug/kg dry	ND		82-120		20	

Surrogate:	ug/kg dry	93	61-136
1,2-Dichloroethane-d4			
Surrogate:	ug/kg dry	110	72-126
4-Bromofluorobenzene			
Surrogate: Toluene-d8	ug/kg dry	117	71-125

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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