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Date: November 16, 2022
Our Ref: 30126788
Subject: **Site Management Plan Modifications**
NYSEG Dansville MGP
Dansville, Livingston County
Site No. 826012

Dear Mr. Squire,

On behalf of NYSEG, please find enclosed, the final Site Management Plan (SMP) for the Dansville former manufactured gas plant site located in Dansville, New York.

The Site Management Plan was submitted to the New York State Department of Environmental Conservation (NYSDEC) on March 3, 2022. The NYSDEC provided comments on the March SMP via a September 6, 2022 letter requesting modifications to the SMP before approval. The SMP has been updated to address each NYSDEC modification request from the September 6, 2022 letter, as appropriate. For ease of presentation, each NYSDEC modification request is presented below in italics, followed by NYSEG's response.

Modification Requests and Responses

Modification 1: Please provide a figure highlighting which groundwater monitoring wells will be sampled for possible NAPL recovery and long-term monitoring under the SMP. Since access appears to have been granted for the property containing PZ-25 and PZ-26 based on the sampling event during the week of August 22nd, you can add these wells when access is confirmed.

Response 1: Figure 7 (new figure) identifies the wells that are in the NAPL Monitoring program and/or the Groundwater Monitoring and Sampling Program. PZ25 and PZ26 have been appropriately identified on the figure and added to Table 4.3 in the SMP text.

Modification 2: Please add post-excavation groundwater and soil sampling results to the figures to show current groundwater conditions. Since a groundwater sampling event was performed the week of August 22nd, please use the results from this sampling event when they are available to indicate the latest groundwater conditions.

Response 2: Soil sampling results have been added to Figure 5 and August 22, 2022 groundwater sampling results, and groundwater elevation data have been added to Figure 6. During review of this request, it was noted that locations DP-41 and DP48 had soil exceeding unrestricted use SCOs but were not included on Figure 5. Figure 5 has been updated with this information, which resulted in the extent of soil exceeding unrestricted use SCOs including location DP48 (DP-41 was already included).

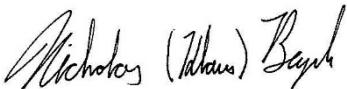
Mr. Michael Squire
NYSDEC
November 16, 2022

Modification 3: Under Section 3.3.3, please delete "surface" from the sentence "Application wells will be used to administer ORS to the subsurface."

Response 3: The text has been corrected.

Please contact John Ruspantini at 607.725.3801 or JJRuspantini@nyseg.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.

A handwritten signature in black ink, appearing to read "Nicholas (Klaus) Beyrle".

Nicholas (Klaus) Beyrle, PG
Senior Geologist

Email: nicholas.beyrle@arcadis.com
Direct Line: 585.442.6044

CC. Amen Omorogbe, NYSDEC
Anthony Perretta, NYSDOH
John Ruspantini, CHMM, PMP, NYSEG
Jason Brien, PE, Arcadis

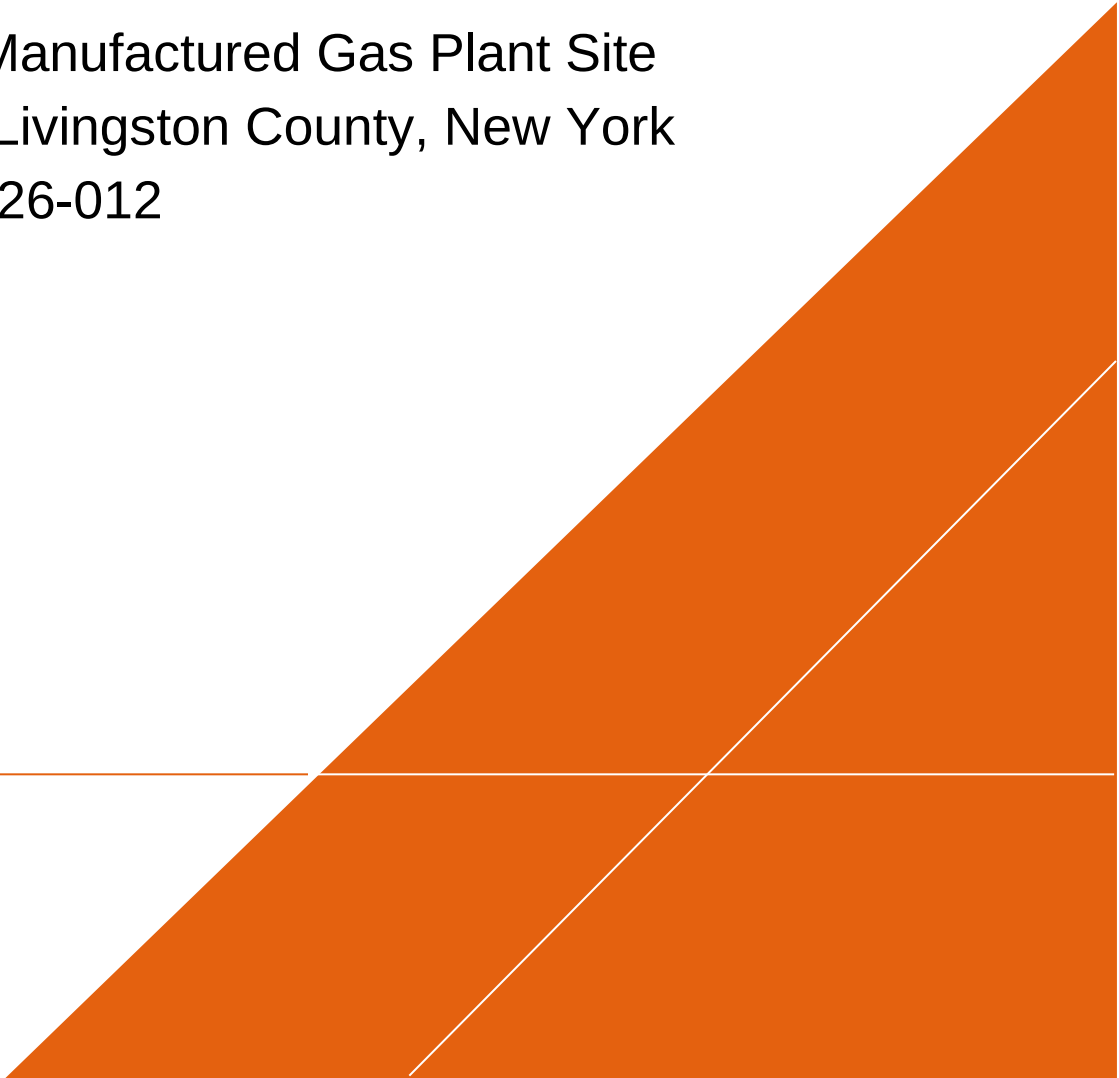
Enclosures:
Site Management Plan

NYSEG

SITE MANAGEMENT PLAN

Dansville Manufactured Gas Plant Site
Dansville, Livingston County, New York
Site No. 8-26-012

November 2022

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a diagonal line across its surface. A thin white horizontal line runs across the page, intersecting the orange shape.

SITE MANAGEMENT PLAN

Certification Statement

I, Jason Brien, P.E. certify that I am currently a NYS registered professional engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Jason Brien, P.E.
NYS PE License No. 084067

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Date 11/16/2022

SITE MANAGEMENT PLAN

Dansville Manufactured Gas Plant Site

Prepared for:

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November 2022

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VERSION CONTROL

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ACRONYMS AND ABBREVIATIONS

ASP	Analytical Service Protocol
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CCR	Construction Complete Report
COC	Certificate of Completion
CVOC	chlorinated volatile organic compound
cy	cubic-yard
DER	Division of Environmental Remediation
DO	dissolved oxygen
DTB	depth to bottom
DTW	depth to water
EC	engineering control
ECL	Environmental Conservation Law
EWP	Excavation Work Plan
FEMA	Federal Emergency Management Agency
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
ft/ft	feet per foot
FSP	Field Sampling Plan
ft/yr	feet per year
GCAMP	Generic Community Air Monitoring Plan
HASP	Health and Safety Plan
IC	institutional control
ISMP	Interim Site Management Plan
MGP	manufactured gas plant
mg/kg	milligrams per kilogram
NAPL	non-aqueous phase liquid
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State

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NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OLM	oil-like material
ORS	oxygen-releasing substrate
OU	operable unit
PDI	pre-design investigation
PPE	personal protective equipment
PRR	Periodic Review Report
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
RAO	remedial action objective
ROD	Record of Decision
RP	remedial party
RSO	Remedial System Optimization
SCG	standards, criteria, and guidance
SCO	soil cleanup objective
SMP	Site Management Plan
SVI	soil vapor intrusion
SVOC	semi-volatile organic compounds
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

EXECUTIVE SUMMARY

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance, and reporting activities required by this Site Management Plan (SMP):

Site Identification: Dansville Former Manufactured Gas Plant Site
50 Ossian Street, Dansville, New York
New York State Department of Environmental Conservation
(NYSDEC) Site No. 8-26-012

Institutional Controls:	
1.	The NYSEG-owned portion of the Site may be used for commercial and industrial use.
2.	Operate and maintain all Environmental Controls (ECs) as specified in this SMP.
3.	Inspect all ECs at a frequency and in a manner defined in the SMP.
4.	The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Livingston County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
5.	Conduct groundwater monitoring and other environmental or public health monitoring as defined in this SMP.
6.	Report data and information pertinent to site management at the frequency and in a manner defined in this SMP.
7.	Conduct all future activities that will disturb remaining impacted material in accordance with this SMP.
8.	Perform monitoring to assess the performance and effectiveness of the remedy as defined in this SMP.
9.	Perform operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy as defined in this SMP.
10.	Provide site access to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.

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11. Evaluate the potential for vapor intrusion (or vapor intrusion mitigation measures installed) for any new buildings developed in the area within the Institutional Controls (IC) boundaries, and any potential impacts that are identified must be monitored or mitigated.	
12. Should a building foundation or building slab be removed in the future on the NYSEG-owned property, an appropriate cover system will be placed in areas where the upper one foot of exposed surface soil exceeds the applicable soil cleanup objectives (SCOs).	
13. Should large scale redevelopment occur at the Site, NYSEG will complete further investigation and remediation (if warranted).	
Engineering Controls:	
1. Cover System	
2. NAPL Monitoring Wells	
3. Passive Treatment System	
Component:	Frequency:
Inspections:	
1. Cover Inspection	Annually
Monitoring:	
1. NAPL Monitoring	Quarterly (Year 1), Semi-Annually (Years 2 through 5), Annual (Years 6 through 10)
2. Groundwater Sampling	Annually (Years 1 through 10)
Passive Treatment System:	
1. ORS Application	Semi-Annually (Years 1 through 5)
2. Treatment System Monitoring	Quarterly (Year 1), Semi-Annually (Years 2 through 5)
Reporting:	
1. Periodic Review Report	Annually

Further descriptions of the above requirements are provided in detail in the latter sections of this SMP.

1 INTRODUCTION

1.1 General

This SMP is a required element of the remedial program for the NYSEG Dansville Former Manufactured Gas Plant (MGP) Site located in Dansville, New York (hereinafter referred to as the “Site”). A site location map is included as Figure 1. The Site is currently in the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program, Site No. 8-26-012 which is administered by New York State Department of Environmental Conservation (NYSDEC).

NYSEG entered into an Order on Consent (Index # D0-0002-9309) on March 30, 1994 with the NYSDEC to remediate the Site. A figure showing the Site’s location and boundaries is provided as Figure 2. As stated in the March 2008 Record of Decision for OU-1 (ROD) (NYSDEC 2008a), the Site consists of two operable units (OUs).

- Operable Unit No. 1 (OU-1) consists of the area located at 50 Ossian Street (i.e., the property owned by NYSEG) that previously contained source material and that was remediated by excavation between February 2014 and April 2015.
- Operable unit No. 2 (OU-2) is defined as all the remaining on-site soil and groundwater, and soil and groundwater in areas of off-site migration (i.e., mainly properties not owned by NYSEG) that are potentially impacted with MGP residuals.

The boundaries of the NYSEG-owned property are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in Appendix A.

After completion of the remedial work, some impacted media were left at this Site, which are hereafter referred to as “remaining impacts”. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining impacts to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Livingston County Clerk, requires compliance with this SMP and all ECs and ICs placed on the Site.

This SMP was prepared to manage remaining impacts at the Site until the Environmental Easement is extinguished in accordance with the Environmental Conservation Law (ECL) Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor’s successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC).
- Failure to comply with this SMP is also a violation of ECL, 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and the Order on Consent (Index # D0-0002-9309; Site No. 8-26-012) for the Site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Table 1.1 (in Section 1.3) of this SMP.

This SMP was prepared by Arcadis of New York, Inc. (Arcadis), on behalf of NYSEG, in accordance with the requirements of the NYSDEC's Division of Environmental Remediation (DER) "Technical Guidance for Site Investigation and Remediation" (DER-10), dated May 2010 (NYSDEC 2010), and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Easement for the Site.

1.2 Revisions

Revisions to this SMP will be proposed in writing to the NYSDEC's Project Manager. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements; upgrades to or shut-down of a remedial system; post-remedial removal of impacted soil; or other significant change to the site conditions. In accordance with the Environmental Easement for the Site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER-10 for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Order on Consent, 6NYCRR Part 375 and/or ECL.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan (EWP).
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

SITE MANAGEMENT PLAN

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party (RP) has been provided with a copy of the Order on Consent, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1.1 includes contact information for the above notification, as well as a complete site contacts list. The information on this table will be updated as necessary to provide accurate contact information.

Table 1.1 – Site Contact List

Name / Affiliation	Address	Contact Information
NYSEG		
Mr. John J. Ruspantini, CHMM, PMP Manager – Programs/Projects	P.O. Box 5224 Binghamton, NY 13902	T: 585.484.6787 jjruspantini@nyseg.com
NYSDEC		
Mr. Michael Squire Assistant Engineer	625 Broadway Albany, NY 12233	T: 518.402.9546 michael.squire@dec.ny.gov
NYSDOH		
Mr. Anthony Perretta Public Health Specialist	Empire State Plaza Corning Tower Room 1787 Albany, NY 12237	T: 518.402.7860 anthony.perretta@health.ny.gov
Arcadis (Design Engineer)		
Mr. Jason Golubski, P.E. Project Manager	One Lincoln Center 110 West Fayette Street Suite 300	T: 315.671.9437 jason.golubski@arcadis.com
Mr. Jason Brien, P.E. Engineer of Record	Syracuse, NY 13202	T: 315.671.9114 jason.brien@arcadis.com

2 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The former MGP parcel is located in the Village of Dansville, Livingston County, New York and is identified as Block 3 and Lot 1 on the Village of Dansville Tax Map #203.06. The former MGP parcel is an approximately 2.25-acre area bounded by Battle Street to the north, Ossian Street to the south, a former commercial dry cleaning business and residential properties to the east, and a residential property to the west (see Figure 2). The boundaries of the NYSEG-owned former MGP parcel are more fully described in the Environmental Easement included as Appendix A. The owner of the Site at the time of issuance of this SMP is NYSEG. Various private/residential properties located west and north of the former MGP parcel and are located within the off-site portion of OU-2.

2.2 Physical Setting

An overview of the Site's physical setting is presented below, including a description of the land use, and site geology and hydrogeology.

2.2.1 Land Use

As indicated above, NYSEG currently owns the former MGP parcel at 50 Ossian Street. The former MGP parcel is zoned for commercial use and is currently vacant. The former MGP property is primarily level/flat with no significant topographic or geologic features. Approximately 75% of the former MGP property is covered with 12-inches of crusher run gravel or asphalt and approximately 25% is covered with at least 12-inches of imported clean soil beneath a minimum of 4-inches of clean vegetated topsoil. The property is partially enclosed with a combination of galvanized chain-link fence (and wooden stockade fence to the west) along the perimeter (see Figures 2 and 3). The chain-link fence and entrance gates are maintained by NYSEG.

The properties adjoining the former MGP parcel and in the neighborhood surrounding the Site primarily include properties zoned for commercial and residential properties. A former dry-cleaning property is located immediately southeast of the NYSEG property and is listed as a Class 2 inactive hazardous waste disposal site (NYSDEC Site No. 8-26-018). A learning center and church are located immediately north of the former MGP parcel and the remainder of the properties, north, west, and south of the former MGP parcel consist of residential properties.

2.2.2 Geology

In vertically descending order from ground surface, overburden materials consist of fill (where present), alluvium, and Quaternary glacial lacustrine deposits.

- Fill – The fill unit is generally encountered in and immediately north of OU-1 at thicknesses up to 10 feet. The fill material is located above the water table and consists of medium to coarse-grain sands, trace amounts of silt, some gravel, and other debris.

- Alluvium – The top of the alluvium was encountered at depths near the ground surface to approximately 10 feet below ground surface (bgs), with the bottom of the alluvium extending to depths ranging from approximately 11 to 24 feet bgs. The alluvium at OU-2 consists of three units. The upper unit consists of silt, sand, and gravel with angular rock clasts. This upper unit overlies a brown, wet, gravel and medium to coarse-grained sand, cobbles, and a trace amount of silt. A vast majority of the visual MGP-related impacts observed in OU-2 were encountered within this unit. A third, less consistent layer, was present beneath the upper unit in some areas and consists of interbedded, brown, fine sand and silt.
- Lacustrine Deposit – The top of the lacustrine deposit was encountered at depths ranging from approximately 11 to 24 feet bgs. The unit consists of gray, stiff, silty clay with some layers of interbedded fine sand and silt. The top of silty clay unit serves as a continuous confining layer beneath the overlying shallow aquifer.

[Geologic cross sections](#) were previously presented in the Final Supplement Remedial Investigation Report (SRI Report) for OU-1 (Ish 2006a) and the SRI Report for OU-2 (Ish 2006c) and are included herein as Appendix B. [Site specific boring logs](#) were [provided](#) in the SRI Reports.

2.2.3 Hydrogeology

Shallow groundwater in the area of OU-1 and OU-2 flows generally to the northwest. The water table is typically encountered at depths ranging from 8 to 14 feet bgs throughout OU-2, but generally at depths greater than 10 feet bgs in the central portion of OU-1. The saturated zone above the confining silty clay unit water table is generally 5 feet thick (or less).

In the shallow groundwater bearing zone, the average horizontal hydraulic gradient for the aquifer in OU-1 was calculated as 0.011 foot per foot (ft/ft) and the average horizontal hydraulic gradient for the aquifer in OU-2 was calculated as 0.014 ft/ft (Ish 2006a). As reported in the OU-2 SRI Report, the estimated specific discharge for the off-site groundwater plume was 2.46 feet per year (ft/yr), while the average estimated groundwater seepage velocity was 7 ft/yr. However, as indicated in the OU-1 SRI Report, the hydraulic conductivity values used to calculate groundwater seepage velocity in OU-1 were likely significantly underestimated. Given the distance of observed groundwater impacts from the former MGP and dry cleaner's properties, the actual average groundwater seepage velocity within the alluvial unit is likely on the order of 50 to 100 ft/yr, which is consistent with a sand and gravel unit (where the majority of residual MGP-related impacts are located with OU-2).

Water table potentiometric surface contours were provided as Figure A-13 in the OU-2 SRI Report (see Appendix B). [Groundwater elevation data](#) collected in 2005 [were provided in](#) the OU-2 SRI Report.

2.3 Investigation and Remedial History

[The following narrative provides](#) an operation, investigation, and [remedial history](#) of the Site. [Available project records to document key investigative and remedial milestones for the Site](#) are referenced in the following subsections.

2.3.1 Operation History

As presented in the OU-2 SRI Report, the gas works operations began in 1861 and continued for approximately 70 years, ceasing in January 1930. The gas manufacturing process and the feed fuels were changed several times during the operational life of the MGP. Oil, coal, and coke were used as feed fuels at various times during the plant's operation. Blue gas, and later carburetted water gas, were manufactured at the plant. Gas production generally increased during the operating life of the plant. Little is known about the generation and disposal practices of wastes at the site, except that a tar storage vessel was present in the subsurface and rail cars were likely used to transport wastes from the property for refining or for burning as boiler fuel. Also, purifier wastes were stored in burlap bags along the west side of the gas house for periodic removal.

NYSEG acquired the 50 Ossian Street property through its merger with New York Central Electric Company in 1937. Photographs from 1930 show that at least two holders were present on the property, but the gas holders were no longer present in a 1938 aerial photograph. Additionally, site maps, and photos from circa 1930 show a former canal as a weed-choked ditch paralleling the south side of Battle Street. Historical pictures from circa 1933 show a small substation on the 50 Ossian Street property.

In later years, NYSEG used a portion of the property for electrical equipment storage, including transformers. Electricity was also produced on-site from 1895 to 1925. In the years after MGP operations had ceased, the gas house was used as a meter department and was later removed in 1958. Also, in later years after gas production ceased, the former electricity generator building was renovated, enlarged, and used as the regional service center for NYSEG. Service center operations ceased in 2010 and the remaining building was demolished in 2012.

As indicated in the March 2009 Record of Decision for OU-1 of the Pappas Dry Cleaning Site (NYSDEC Site No. 8-26-018) (NYSDEC 2009a), the dry-cleaning business located at 46 Ossian Street operated from 1952 to 2002. As reported in the March 2013 Final Engineering Report (FER) prepared by HDR (HDR 2013), approximately 5,200 cubic-yards (cy) of soil containing CVOC impacts was excavated and removed from the property in 2012. As presented in the March 2013 Record of Decision for OU-2 of the Pappas Dry Cleaning Site (NYSDEC 2013), groundwater containing CVOC impacts extends from the former dry cleaner's property to approximately 4,000 feet downgradient. A portion of the extent of groundwater containing MGP-related impacts throughout the NYSEG-owned and non-NYSEG-owned portions of OU-1 and OU-2 also contain CVOC impacts. However, this SMP focuses on the post-construction monitoring and maintenance activities associated with the former MGP.

2.3.2 Investigation History

The Site has been subject to several environmental investigations, which were documented in the following reports:

- Task 1 Report, Preliminary Site Evaluation (TRC Environmental Consultants, Inc. [TRC] 1986).
- Task 2 Report, Initial Field Investigation Program (TRC 1988).
- Task 3 Report, Additional Field Investigation Program (TRC 1990).
- Task 4 Report; Risk Assessment for the Former Coal Gasification Site in Dansville, New York (TRC 1991).

- SRI Report for OU-1 (Ish 2006a).
- Synoptic Groundwater Sampling Report for OU1 and OU2 at the Dansville Former MGP Site, Dansville, New York (Ish 2006b).
- SRI Report for OU-2 (Ish 2006c).
- Draft Report, Soil Vapor Intrusion Evaluation for Operable Unit 1 at the Former MGP Site in Dansville, New York (Ish 2006d).

2.3.3 Remedial History

An overview of the remedial measures conducted to address environmental impacts identified at the Site is presented below. Additionally, indicated in Section 2.3.1, soil excavation activities at OU-1 of the Pappas Dry Cleaning Site were completed in 2012.

2.3.3.1 Interim Remedial Measures

Although not specifically identified as interim remedial measures, previous site activities conducted at OU-1 included the following:

- 1988 – Excavation of approximately 1,500 cy of surface and shallow subsurface soil to facilitate site paving. Approximately 400 cy of material was reportedly disposed as a hazardous waste, while the remaining 1,100 cy was disposed as a non-hazardous waste.
- 1990 – Closure of two underground storage tanks: a 1,000-gallon diesel fuel tank and 2,000-gallon unleaded fuel tank. As approved by NYSDEC, the tanks were cut open, cleaned, and filled with a pea stone.
- 2006 – A sub-foundation depressurization system was installed beneath the former service center to eliminate a migration pathway for volatile organic compound (VOC) vapors from the subsurface into the working area of the building. According to the OU-1 ROD, mitigation measures were undertaken primarily to address chlorinated volatile organic compounds (CVOCs) that were not believed to be related to the MGP.
- 2012 – Demolition of the existing service center building and abandonment/relocation of supporting utilities. Above-grade portions of the building were removed in 2012 and the subsurface building foundation (and nearby loading dock) were removed as part of the remedial construction activities completed in 2014.

2.3.3.2 OU-1 Remedial Construction

NYSEG implemented the NYSDEC-selected remedy for OU-1 from February 2014 to April 2015. As presented in the December 2015 Construction Completion Report (CCR) (Arcadis 2015) and November 2020 Final Engineering Report (Arcadis 2020), OU-1 remedial construction activities generally consisted of the following:

- Removing and demolishing foundations/structures, concrete slabs, and the concrete loading dock, as well as existing asphalt, site fencing, and site drainage features, as necessary.
- Decommissioning monitoring wells and piezometers within planned excavation areas.

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- Locating and terminating utilities associated with the former NYSEG Service Center.
- Relocating gas mains to areas outside the planned excavation areas.
- Installing steel sheet pile around the perimeter of the planned excavation areas (for temporary excavation support).
- Constructing and utilizing a temporary excavation enclosure, and associated air handling system, to provide odor control during excavation activities.
- Excavating MGP waste, non-aqueous phase liquid (NAPL), and contaminated soils meeting one or more of the following criteria: visible tar or oil; the presence of sheens or odors with total polycyclic aromatic hydrocarbons (PAHs) over 1,000 milligrams per kilogram (mg/kg); or total benzene, toluene, ethylbenzene, and xylene (BTEX) concentration above 10 mg/kg.
- Backfilling excavation areas with excavated materials that were below the reuse criteria and imported clean soil.
- Constructing a soil cover consisting of a minimum of one foot of clean soil underlain by a demarcation layer to prevent exposure to potentially impacted soil that remains.
- Establishing an institutional control in the form of an environmental easement that requires:
 - Commercial use, which will also permit industrial use.
 - Compliance with an approved SMP.
 - Restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment, as determined by the New York State Department of Health (NYSDOH).
- Developing an SMP that includes the following institutional and engineering controls:
 - Management of the final cover system to restrict excavation below the soil cover's demarcation layer, 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 NYSDEC.
 - Evaluation of the potential for vapor intrusion for any building developed on the site, including provisions for migration of any impacts identified.
 - Identification of any use restrictions on the site.
 - A monitoring plan to monitor the effectiveness of remedy.

Note that to satisfy this requirement, prior to conducting OU-2 remedial activities, Arcadis prepared an Interim Site Management Plan (ISMP) (Arcadis 2016)¹.

- Preparing and submitting periodic certification of institutional and engineering controls (provided by the property owner), by a professional engineer or such other expert acceptable to the NYSDEC, until the NYSDEC notifies the property owner in writing that this certification is no longer needed. This submittal will:

¹ As of the writing of this SMP, the NYSDEC has not provided comment or approved the 2016 ISMP.

- Contain certification that institutional controls and engineering controls put in place are still in place and are either unchanged from the previous certifications or are compliant with NYSDEC-approved modifications.
- Allow the NYSDEC access to the site.
- State that nothing has occurred that would impair the ability of the control to protect public health or the environment, or constitute a violation of failure to comply with the SMP unless otherwise approved by the NYSDEC.

2.3.3.3 OU-2 Remedial Construction

NYSEG implemented the NYSDEC-selected remedy for OU-2 from July to August 2020. As presented in the FER, OU-2 remedial construction activities generally consisted of the following:

- Maintaining the site cover that currently exists at the NYSEG-owned portion of OU-2 to allow for commercial use of the site. Any future site redevelopment will maintain the site cover. The site cover may include paved surface parking areas, sidewalks, or soil where the upper 1-foot of exposed surface soil meets the applicable SCOs for commercial use.
- Installing and operating coal tar (non-aqueous phase liquid; NAPL) recovery wells to manually remove mobile coal tar (if present). Note that a total of 10 new monitoring wells (MW1801 through MW1810) were installed within OU-2 (i.e., along the northern boundary of the NYSEG property and in the private properties north of Battle Street) during the pre-design investigation (PDI) to facilitate groundwater monitoring and manual recovery of potentially mobile NAPL. While the OU-2 ROD requires installing NAPL recovery wells, based on limited/minor observations of NAPL during the PDI, additional NAPL monitoring wells were not warranted at the time. However, the new wells were constructed with 2-foot sumps and will be gauged for NAPL (along with previously existing monitoring wells and piezometers) as part of the post-construction monitoring detailed in Section 4.
- Installing application wells (i.e., passive treatment system) to facilitate in-situ enhanced biodegradation of BTEX and PAH compounds in groundwater. The biological breakdown of these compounds through aerobic respiration will be enhanced by the placement of an oxygen-releasing substrate (ORS) administered to the subsurface via application wells (i.e., as part of post-construction operation, monitoring, and maintenance). Additionally, performance monitoring wells were installed (as pairs) upgradient and downgradient of the application wells to facilitate monitoring of groundwater conditions in the immediate vicinity of the application wells.
- Revising the ISMP to incorporate the OU-2 remedy, such that the site-wide SMP (i.e., this document) includes:
 - An Institutional and Engineering Control Plan that identifies use restrictions and engineering controls for the OU-2 area.
 - Descriptions of an Environmental Easement for the NYSEG-owned portion of OU-2.
 - Engineering Controls, including the site cover materials, NAPL recovery wells, and enhanced bioremediation wells.
 - Excavation Plan that details the provisions for management of future excavations in areas of remaining impacts.

- A provision that should a building foundation or building slab be removed in the future on the NYSEG owned property, an appropriate cover system will be placed in areas where the upper one foot of exposed surface soil exceeds the applicable SCOs.
- Agreements with property owners to implement necessary SMP sampling activities on the off-site properties.
- A provision for further investigation and remediation should large scale redevelopment occur at the Site.
- Descriptions of the provisions of the environmental easement placed on the NYSEG property, including any land use and groundwater use restrictions.
- Provisions for the management and inspection of the identified engineering controls.
- A provision for evaluation of potential soil vapor intrusion for future buildings developed within the area of site management.
- A Monitoring Plan to assess the performance and effectiveness of the remedy.

2.4 Remedial Action Objectives

The remedial action objectives (RAOs) for OU-1 as listed in the OU-1 ROD dated March 2008 (NYSDEC 2008a) consist of eliminating or reducing, to the extent practicable, the following:

- Exposures of persons at or around the site to VOCs, semi-volatile organic compounds (SVOCs), PAHs, and NAPL in soil.
- The release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards.
- The release of contaminants from the soil and groundwater into indoor air, outside air, off-site soil and groundwater through soil vapors.

The RAOs for OU-2 as listed in the OU-2 ROD dated March 2017 (NYSDEC 2017) are as follows:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.
- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.
- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings.

2.5 Remaining Impacts

This section describes the remaining MGP-related impacts at the Site such that individuals performing intrusive activities can anticipate the environmental conditions they will encounter and plan appropriately. As indicated above, CVOC impacts are potentially co-mingled with MGP-related impacts; however, this SMP focuses on the extent of remaining MGP-related impacts.

A majority of the soil containing MGP-related impacts was addressed during the implementation of the OU-1 remedy. The extent of impacts remaining at the Site (following the completion of the remedial actions discussed in Section 2.3.3) is presented in the following subsections.

2.5.1 NAPL Distribution

Locations where MGP-related NAPL and/or oil-like material (OLM) was observed during soil boring advancement/monitoring well installation (advanced/installed from 2004 to 2018) are shown on Figure 4. Soil containing visual observations of NAPL and OLM are typically observed at depths ranging from 10 to 17 feet below grade (or deeper).

Despite observations of MGP-related NAPL and/or OLM during installation as of the writing of this SMP, none of the wells have exhibited measurable quantities of NAPL. Monitoring wells NRW-1 and NRW-2 (installed immediately following OU-1 remedial construction), as well as monitoring wells MW-1801 through MW-1810 (installed during the OU-2 PDI), were constructed with sumps to collect dense NAPL, should any accumulate.

Post-remediation NAPL gauging is discussed in Section 4.4.

2.5.2 Soil

Locations where soil samples contained BTEX and/or PAH concentrations exceeding 6NYCRR Part 375-6 unrestricted use SCOs (collected from 2004 to 2018) are shown on Figure 5. Analytical results for soil samples collected from beyond the OU-1 excavation limits are provided in Table 1. Similar to the extent of NAPL, soil containing BTEX and/or PAH concentrations exceeding unrestricted use SCOs is typically observed at depths ranging from 10 to 17 feet below grade (or deeper).

The majority of soil containing MGP-related impacts on the NYSEG property was addressed with implementation of the OU-1 remedy. Remaining MGP-related impacts on the NYSEG property are limited to the southwest corner (near monitoring well MW-1810), and in the northern and western portions of the NYSEG property, beyond the OU-1 excavation areas. Remaining MGP-related impacts are present north and west of the NYSEG property, generally between Battle Street and Franklin Street.

2.5.3 Groundwater

Locations where groundwater samples (collected in August 2022) contain BTEX and/or PAH concentrations exceeding NYSDEC Class GA standards and guidance values presented in NYSDEC's Division of Water, Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Groundwater Effluent Limitations (TOGS 1.1.1) (NYSDEC 2008b) are shown on Figure 6. Additionally, locations not sampled in 2022, but with historic BTEX/PAH exceedances are also shown on Figure 6. Analytical results for groundwater samples are provided in Table 2.

Similar to extent of soil containing MGP-related impacts, elevated concentrations of BTEX and/or PAHs are present in groundwater in the northern and western portion of the NYSEG property, as well as north and west of the NYSEG property between Battle Street and Franklin Street.

2.5.4 Soil Vapor

As indicated in the OU-1 ROD, based on the results of a soil vapor intrusion (SVI) investigation completed after the OU-1 remedial investigation, a sub-foundation depressurization system was installed in the former service center building in October 2006. The purpose of the system was to eliminate a migration pathway for vapor from the subsurface soils into the working area of the building. Indoor air monitoring conducted in 2007, after the sub-foundation depressurization system began operating, indicated that the system effectively reduced indoor air contamination to acceptable levels (NYSDEC 2008a).

Prior to the OU-1 remedial construction activities, the service center building was demolished in 2012. Currently, no structures exist on-site, except for a small gas regulator shed in the northwest portion of the Site. Due to its nature and size, this structure would not be occupied for any appreciable duration, and therefore would not pose an exposure risk to soil vapor, should impacted soil vapor be present on-site. This SMP provides requirements for a SVI evaluation if/when new structures are built on-site.

3 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

3.1 General

Based on the presence of remaining impacts at the Site, ICs and ECs are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all ICs/ECs at the Site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the Site.
- The basic implementation and intended role of each IC/EC.
- A description of the key components of the ICs set forth in the Environmental Easement.
- A description of the controls to be evaluated during each required inspection and periodic review.
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the EWP (as provided in Appendix C) for the proper handling of remaining impacts that may be disturbed during maintenance or redevelopment work on the Site.
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the Site remedy, as determined by the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the RODs to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining impacts; and, (3) limit the use and development of the NYSEG-owned portion of the Site. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs below may not be discontinued without an amendment to or extinguishment of the Environmental Easement. These ICs are:

- The property may be used for: commercial use.
- All ECs must be operated and maintained as specified in this SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Livingston County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.

- All future activities that will disturb remaining impacted material must be conducted in accordance with this SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any new buildings developed on the Site, and any potential impacts that are identified must be monitored or mitigated.
- Should a building foundation or building slab be removed in the future on the NYSEG-owned property, an appropriate cover system will be placed in areas where the upper one foot of exposed surface soil exceeds the applicable SCOs.
- Should large scale redevelopment occur at the Site, NYSEG will complete further investigation and, if warranted, remediation.

3.3 Engineering Controls

An overview of the ICs established for the Site is presented below.

3.3.1 Cover

Exposure to remaining impacts at the Site is prevented by an existing cover system placed over the NYSEG-owned portion of the Site and previously existing cover materials in non-NYSEG owned areas (e.g., asphalt roads and driveways, concrete sidewalks, buildings, vegetated topsoil, etc.). Within the excavation areas, the cover system on the NYSEG property is comprised of a minimum of 5 feet of imported fill, geotextile, and either a minimum of 12 inches of gravel or 4 inches of vegetated topsoil. On the remainder of the NYSEG-owned property, cover materials consist of gravel and vegetated topsoil. The EWP provided in Appendix C outlines the procedures required to be implemented for intrusive activities within the Site and if any underlying remaining impacts are disturbed. Procedures for the inspection of the existing cover are provided in the Monitoring and Sampling Plan included in Section 4 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and NYSDOH's Generic Community Air Monitoring Plan (G-CAMP) provided in Appendices D and E, respectively.

3.3.2 NAPL Monitoring Wells

As discussed in Section 2.3.3.3, 10 monitoring wells (MW1801 through MW1810) were installed during the PDI and will be used to monitor for the presence of NAPL. Monitoring wells were constructed of 2-inch diameter polyvinyl chloride (PVC) installed to depths ranging from 13 to 25 feet below grade (i.e., the top of clay) and included 2-foot long sumps.

Additionally, during OU-1 remedial construction activities, two monitoring wells (NRW-1 and NRW-2) were installed within the gravel trench installed along the southern limits of Removal Area E, to monitor for the presence of NAPL along the southernmost portion of the NYSEG property. Monitoring wells were constructed of 6-inch diameter PVC installed to depths ranging from 21 to 24 feet below grade and included 3-foot long grouted sumps.

Well locations are shown on Figure 3 and monitoring well logs are included in Appendix F. Monitoring/gauging activities completed as required by this SMP will be summarized in an annual report to be submitted to NYSDEC.

3.3.3 Passive Treatment System

To facilitate in-situ enhanced biodegradation of BTEX and PAH compounds in groundwater, OU-2 remedial activities consisted of installing application wells and performance monitoring wells. Well construction consisted of 4-inch (for application wells) and 2-inch (for performance monitoring wells) schedule 40 PVC risers and 0.02-inch slotted well screen installed from the top of the silt and clay unit to approximately 2-feet above the top of the water table. Each well was constructed with a 2-foot long sump into the silt and clay unit. Application wells will be used to administer ORS to the subsurface.

Well locations are shown on Figure 3 and well logs are included in Appendix F. [Procedures for operating and maintaining the passive treatment system are documented in the Operation and Maintenance Plan included as Section 5 of this SMP.](#)

3.3.4 Criteria for Completion of Remediation/Termination of Remedial Systems

[Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the ROD. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10.](#)

3.3.4.1 Cover

[The existing cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.](#)

3.3.4.2 NAPL Monitoring Wells

NAPL monitoring will be conducted at defined, regular intervals in accordance with this SMP. In the event that NAPL is not observed in any wells for four consecutive events, NYSEG will provide the NYSDEC with a proposal to reduce the monitoring frequency or to discontinue monitoring. In the event that monitoring continues beyond five years, the need for continued monitoring will be regularly reevaluated. If the results of an evaluation deem NAPL monitoring unnecessary, then NYSEG will propose to the NYSDEC that monitoring be discontinued and that the NAPL monitoring wells be decommissioned. Monitoring will continue until written permission to discontinue is granted by the NYSDEC.

3.3.4.3 Passive Treatment System

ORS application activities to enhance biodegradation will continue, as determined by the NYSDEC, until residual groundwater concentrations are observed to be consistently below ambient water quality standards, or have become asymptotic at an acceptable level over an extended period. In the event monitoring data indicate enhanced biodegradation activities may no longer be required or are no longer effective, NYSEG will submit a proposal to NYSDEC to discontinue the ORS application. ORS application will continue until permission to discontinue is granted in writing by the NYSDEC.

NYSEG anticipates completing ORS application for period of five years. Groundwater sampling will continue for a period of an additional five years after the ORS application to evaluate trends in BTEX and PAH concentrations in groundwater after the ORS application has been halted. At that time, NYSEG will provide NYSDEC with recommendations for additional passive treatment (if warranted) and groundwater monitoring based on the data collected from the first 10 years of post-construction monitoring.

3.3.4.4 Monitoring Wells

Groundwater monitoring activities to assess natural attenuation and/or enhanced biodegradation will continue, as determined by the NYSDEC with consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below ambient water quality standards, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates monitoring for natural attenuation may no longer be required, NYSEG will submit a proposal to NYSDEC to discontinue the system. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

4 MONITORING AND SAMPLING PLAN

4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of site management for the Site are included in the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) provided in Appendices G and H, respectively.

This Monitoring and Sampling Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils).
- Assessing compliance with applicable NYSDEC standards, criteria and guidance (SCGs), particularly groundwater standards and Part 375 SCOs for soil.
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Sampling locations, protocol and frequency.
- Information on all designed monitoring systems.
- Analytical sampling program requirements.
- Inspection and maintenance requirements for monitoring wells.
- Monitoring well decommissioning procedures.
- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7 of this SMP.

4.2 Site-Wide Inspection

Site-wide inspections will be performed at the Site at a minimum of once per year. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all severe weather conditions that may affect eCs or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix I. The form will compile sufficient information to assess the following:

- Compliance with all iCs, including site usage.
- An evaluation of the condition and continued effectiveness of eCs.
- General site conditions at the time of the inspection.
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
- Confirm that site records are up to date.

Inspections of all remedial components installed at the Site will be conducted. A comprehensive site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report (PRR). The inspections will determine and document the following:

- Whether eCs continue to perform as designed.
- If these controls continue to be protective of human health and the environment.
- Compliance with requirements of this SMP and the Environmental Easement.
- Achievement of remedial performance criteria.
- If site records are complete and up to date.

Reporting requirements are outlined in Section 7 of this SMP.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the eCs occurs that reduces or has the potential to reduce the effectiveness of eCs in place at the Site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/eCs implemented at the Site by a qualified environmental professional, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

4.3 Treatment System Monitoring and Sampling

Although the site remedy does not include any active remedial systems, passive treatment (via ORS application) will be conducted to enhance biodegradation of dissolved-phase impacts present at the Site. Treatment system monitoring and sampling activities are summarized in the following subsections. As presented in the following subsections, treatment system monitoring and sampling will be completed on a quarterly basis during the first year of post-construction monitoring (i.e., Year 1). During the following four years (i.e., Years 2 through 5), monitoring and reduced/targeted sampling will be completed on a semi-annual basis. As discussed in Section 3, NYSEG anticipates ceasing ORS application after 5 years and therefore, treatment system monitoring and sampling will not be completed after Year 5, unless warranted based on continued groundwater monitoring results following Year 5. [Modification to the frequency or sampling requirements will require approval from the NYSDEC.](#)

4.3.1 Treatment System Monitoring

To supplement the data collected as part of the groundwater monitoring and sampling activities described in Section 4.4, application wells and performance monitoring wells will be gauged for depth to water (DTW) to confirm that groundwater-flow patterns have not changed appreciably and depth to bottom (DTB) to evaluate the need for well redevelopment.

Additionally, the application wells and performance monitoring wells will also be gauged for the presence of NAPL. If a recoverable quantity of NAPL is identified in any well, the NAPL will be removed by manual bailing or pumping with a portable pump at a frequency that is sufficient to maintain the level of NAPL to

within the well sump (i.e., the NAPL gauging schedule may be modified based on the observed NAPL accumulation rate).

Treatment system components to be monitored include, but are not limited to, the components included in Table 4.1.

Table 4.1 – Remedial System Monitoring Requirements and Schedule

Component	Monitoring Parameter	Operating Range	Schedule
Application Wells (all)	DTW, DTB, NAPL	--	Quarterly (Year 1)
Performance Monitoring Wells (all)			Semi-Annually (Years 2-5)

4.3.2 Treatment System Sampling

The objective of the treatment system sampling is to confirm that the ORS application is delivering oxygen to the groundwater. Treatment system sampling will consist of measuring and recording dissolved oxygen (DO) concentrations within the application wells and performance monitoring wells. DO measurements will be obtained using a water quality meter equipped with a DO sensor. Sampling locations, required analytical parameters and schedule are provided in Table 4.2.

Table 4.2 – Remedial System Sampling Requirements and Schedule

Sampling Location	Analytical Parameter	Schedule
Year 1		
Application Wells (all)	DO	Quarterly ^{1,2}
Performance Monitoring Wells (all)		
Years 2-5		
AW-01, AW-05, AW-09, AW-13, AW-16, AW-20, AW-25	DO	Semi-Annually ²
Performance Monitoring Wells (all)		

Notes:

1. During first monitoring/ORS application event, DO will be measured prior to ORS application and approximately 24 hours following application.
2. During all other monitoring events, DO will be measured prior to placement of new ORS.

4.4 Post-Remediation Media Monitoring and Sampling

Samples shall be collected from the groundwater monitoring wells on a routine basis. Sampling locations, required analytical parameters and schedule are provided in Table 4.3. Sampling locations are shown on Figure 7. Modification to the frequency or sampling requirements will require approval from the NYSDEC. Detailed sample collection and analytical procedures and protocols are provided FSP (Appendix G) and the QAPP (Appendix H). Deliverables for the monitoring program are specified in Section 7.

Table 4.3 – Post-Remediation Monitoring and Sampling Requirements and Schedule

Sampling Location	Parameters			Schedule
	BTEX (USEPA Method 8260)	PAHs (USEPA Method 8270)	DTW, DTB, NAPL	
MW04S, MW-1801, MW-1802, MW-1803, MW-1804, MW-1805, MW-1806, MW-1807, MW-1808, MW-1809, MW-1810, PZ13 PZ14, PZ17, PZ18, PZ19, PZ24, PZ25, PZ26 PZ29, PZ31, PZ32, PZ35, PZ36	X	X		Annually (Years 1-10)
			X	Quarterly (Year 1) Semi-Annually (Years 2-5) Annually (Years 6-10)
NRW-01, NRW-02			X	Quarterly (Year 1) Semi-Annually (Years 2-5) Annually (Years 6-10)

Note that groundwater sampling at monitoring wells located north of Battle Street will be contingent upon NYSEG receiving access from the respective property owners.

Additional discussions regarding the post-remediation monitoring/sampling schedule are presented in the following subsections.

4.4.1 Groundwater Monitoring and Sampling

As required by the RODs, groundwater monitoring will be performed to assess the performance and effectiveness of the remedy. A network of monitoring wells has been installed to monitor upgradient and downgradient site groundwater conditions. The network of wells has been designed to achieve the following objectives:

1. Confirm that groundwater-flow patterns have not changed appreciably.
2. Document the quality of groundwater entering the Site.
3. Document that the extent of groundwater containing MGP-related impacts remains stable or is decreasing.

Periodic groundwater level gauging and groundwater sampling, as described in the following subsections, will be completed to meet these objectives. Well construction details are provided in Table 3 and monitoring well construction logs are included as Appendix I.

4.4.1.1 Water Level Gauging

To meet Objective #1, synoptic rounds of groundwater levels will be periodically collected at site monitoring wells. Water-level monitoring will be performed in conjunction with groundwater sampling and NAPL gauging (discussed in Sections 4.4.1.2 and 4.4.2, respectively). As such, groundwater levels will be measured whenever groundwater samples are collected from site monitoring wells or NAPL gauging is conducted. As summarized in Table 4.3, water level gauging will be completed on a quarterly basis during the first year of monitoring (i.e., Year 1). Water level gauging will be completed on a semi-annual basis for the following four years (i.e., Years 2 through 5). Assuming groundwater sampling is completed for a minimum of 10 years, water levels will be gauged annually during the groundwater sampling event after 5 years (i.e., Years 6 through 10).

Following the completion of the groundwater level gauging, a potentiometric surface map will be prepared depicting the water table configuration.

4.4.1.2 Groundwater Sampling

To meet Objectives #2 and #3, groundwater samples will be periodically collected from the monitoring wells listed in Table 4.3. NYSEG anticipates conducting groundwater sampling, at a minimum, during the first 10 years of post-construction monitoring (i.e., Years 1 through 10). At any time, based on the results of the groundwater sampling activities, NYSEG may propose to reduce the quantity of wells to be sampled or the frequency of sampling. Any modification [to the frequency, sampling requirements, or quantity of wells to be sampled presented in this SMP will require approval from the NYSDEC](#). Monitoring will continue until written permission to discontinue is granted by the NYSDEC. [This SMP will be modified to reflect changes in the groundwater sampling plan once approved by the NYSDEC](#).

The groundwater sampling schedule presented in Table 4.3 is intended to confirm the current extent of groundwater containing MGP-related impacts. Based on the analytical results obtained during the initial sampling event, NYSEG anticipates submitting a request to NYSDEC to reduce the number of wells sampled during the annual groundwater monitoring program.

Groundwater samples will be collected using low-flow purging and sampling techniques in accordance with the FSP (Appendix G). The groundwater samples will be submitted to a NYSDOH-certified laboratory for analysis for the parameters listed in Table 4.3. Analytical parameters to be analyzed along with the detection limits and minimum reporting limits to be achieved by the Environmental Laboratory Approval Program (ELAP)-certified laboratory are included in the QAPP (Appendix H). Analytical results will be reported using NYSDEC Analytical Services Protocol (ASP) Category B data deliverables. The analytical results will be validated in accordance with United States Environmental Protection Agency (USEPA) National Functional Guidelines.

4.4.1.3 Well Repairs, Replacement, and Decommissioning

[If biofouling or silt accumulation occurs in the monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable.](#)

[Repair and/or replacement of wells in the monitoring well network will be performed based on assessments of well's integrity and overall performance.](#)

The NYSDEC will be notified prior to any repair, replacement, or decommissioning of any monitoring well, and the repair or decommissioning and replacement process will be documented in the subsequent PRR. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC. Well abandonment will be performed in accordance with NYSDEC's November 2009 CP-43: Groundwater Monitoring Well Decommissioning Policy (NYSDEC 2009b). Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC.

4.4.2 NAPL Gauging and Removal

NAPL gauging will be conducted to identify wells where NAPL accumulates, allow estimation of the accumulation rate, and develop a removal schedule. During the first year of monitoring (i.e., Year 1), NAPL gauging will be conducted on a quarterly basis. During Years 2 through 5, NAPL gauging will be completed on a semi-annual basis. As indicated above, NAPL gauging will be completed during the annual groundwater sampling event during Years 6 through 10.

If a recoverable quantity of NAPL is identified in any well, the NAPL will be removed by manual bailing or pumping with a portable pump at a frequency that is sufficient to maintain the level of NAPL to within the well sump (i.e., the NAPL gauging schedule may be modified based on the observed NAPL accumulation rate). As indicated in Section 3.3.4.2, if no recoverable quantities of NAPL are observed during four consecutive monitoring events over five-year period, NYSEG would request to conduct NAPL monitoring less frequently or cease NAPL monitoring altogether at individual wells.

4.4.3 Soil Vapor Intrusion Sampling

As indicated in Section 2.3.3.2, a SVI evaluation will be conducted for the construction of any future buildings at the NYSEG-owned portion of the Site to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system may include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting an SVI investigation or installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the NYSDOH's October 2006 (or most recent) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH 2006) and the FSP (Appendix G). Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the SVI evaluation, NYSDOH guidance, and construction details of the proposed structure.

Preliminary (non-validated) SVI sampling data will be forwarded to the NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation.

SVI sampling results, evaluations, and follow-up actions will also be summarized in the next PRR, as applicable.

4.4.4 Monitoring and Sampling Protocol

All sampling activities will be recorded in a field book and on associated sampling log(s) as provided in and in accordance with the procedures identified in the FSP (Appendix G). Other observations (e.g., groundwater monitoring well integrity, etc.) will be noted on the sampling log(s). The sampling log will serve as the inspection form for the monitoring network. Additional detail regarding monitoring and sampling protocols are provided in the FSP.

5 OPERATION AND MAINTENANCE PLAN

5.1 General

The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. However, as indicated in Section 2, the site remedy includes passive treatment, in the form of ORS application, to enhance the biodegradation of BTEX and PAH compounds in site groundwater.

This Operation and Maintenance Plan:

- Includes the procedures necessary to allow individuals unfamiliar with the Site to operate and maintain the passive groundwater treatment system.
- Will be updated periodically to reflect changes in site conditions or the manner in which the passive groundwater treatment system is operated and maintained.

This Operation and Maintenance Plan is not to be used as a stand-alone document, but as a component document of this SMP.

5.2 Remedial System Performance Criteria

As discussed in Section 4, remedial system monitoring/sampling will include the collection of DO readings from the application wells and performance monitoring wells during treatment system monitoring activities. Additionally, groundwater samples will be collected from the Site's monitoring well network and submitted for laboratory analysis for BTEX and PAH compounds.

As indicated in Section 2, NYSEG anticipates conducting ORS application for five years and continuing groundwater monitoring for an additional five years. Based on the collected data and observed trends in BTEX and PAH concentrations in groundwater, NYSEG will provide NYSDEC with recommendations for future passive treatment (if warranted) and groundwater monitoring.

5.3 Operation and Maintenance

The following sections provide a description of the operations and maintenance of passive treatment system.

5.3.1 ORS Application

Provectus® Oxygen Releasing Substrate (ORS)TM will be placed within each application well. The oxygen-releasing material is contained in 3-foot-long permeable socks (ORS Sleeves) that are placed in stainless steel screened canisters, which are suspended from steel cables attached to a well cap. One permeable sock will be installed within each application well.

The permeable socks containing oxygen-releasing material will be placed in each application well during the initial monitoring event and will be replaced semi-annually (i.e., every 6 months, assumed to be completed March and September), such that oxygen will continue to be added to the groundwater. As stated in Section 4, samples will be collected from the performance monitoring wells to evaluate the

treatment system's ability administer oxygen to the surrounding groundwater. Change-out requirements/frequency for the oxygen-releasing material may be adjusted based on the results of monitoring.

5.3.2 Well Maintenance

All application wells, performance monitoring wells, monitoring wells, and piezometers will be inspected during the annual site inspection. Well repairs, replacement, and decommissioning requirements are presented Section 4. General maintenance activities will include the following:

- Measuring/recording depth to bottom in each well (as discussed in Section 4).
- Replacing missing or broken locks.
- Repairing/replacing ground seals, protective casings, and locking caps.
- Brushing clean any biofouling/build-up on the stainless-steel screened canisters within the application wells.

Well redevelopment will be conducted as required, and in accordance with the procedures included in the FSP (Appendix G). In addition to well redevelopment, the usage of an approved biocide and pumping may be required to reduce clogging of the screens due to biofouling.

5.3.3 Waste Handling

Generated miscellaneous wastes may be classified as general refuse or material impacted by MGP residuals (and/or potentially CVOC residuals). General refuse (material that has not contacted any MGP residuals or other potentially regulated substances) will be managed as a non-hazardous waste and is not subject to this SMP.

Materials that have come in contact with MGP residuals will be considered impacted. These waste materials can include, but are not limited to, used disposable equipment, used personal protective equipment (PPE), and used sampling equipment.

The miscellaneous wastes potentially impacted by MGP and CVOC residuals will be containerized, stored at the property in a staging area, and characterized, if necessary, prior to off-site disposal/treatment. Following characterization, the material must be labeled, transported, and disposed based on the characterization results and in accordance with applicable rules and regulations.

Water and/or DNAPL generated from monitoring and/or maintenance activities, and materials generated during re-development of wells, will be sampled for laboratory characterization for off-site disposal. After characterization, the wastes will be transported off-site for disposal in accordance with applicable local, state, and federal laws, rules, and regulations.

If NYSEG does not have an existing waste characterization profile for spent oxygen-releasing socks, a sample for waste characterization disposal purposes will be collected prior to off-site disposal of the spent socks. If a waste characterization sample is required, it will only be collected once to obtain data to establish the disposal profile.

6 PERIODIC ASSESSMENT / EVALUATIONS

6.1 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the Site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

With the exception of the gas regulator shed, the NYSEG-owned portion of the Site does not contain vulnerable assets. The engineering controls are passive and are not vulnerable to changing or extreme weather conditions. Storm water management is not anticipated to be a concern because the Site is graded for positive drainage to adjacent streets via overland runoff or an on-site stormwater drainage ditch. Based on the Federal Emergency Management Agency (FEMA) National Flood Insurance Program Map Number 3603830015B, dated August 5, 2010, the Site is not located within the limits of a 100-year floodplain. Remaining impacted/solidified materials are below the soil cover system, which is anticipated to withstand foreseeable rain, snow, and flooding and protect against long-term direct contact exposures. Based on the thickness and integrity of the soil cover system, impacted materials are not anticipated to be released from the Site during extreme weather events.

If site conditions change, NYSEG in consultation with NYSDEC, will evaluate the need to develop a vulnerability assessment. Potential future vulnerability assessments will be provided as part of the PRR.

6.2 Green Remediation Practices

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the Site during site management, and as reported in the PRR.

Site monitoring and maintenance activities (e.g., groundwater monitoring, site inspection, etc.) will be performed in such a way to minimize energy usage, waste generation and water consumption. If feasible, these activities will be performed during the same mobilization and with local staff carpooling to minimize fuel usage and emissions generated from traveling to the Site. Measures to minimize the generation of wastewater will be reported in the PRR.

6.2.1 Timing of Green Remediation Practices

For potential future active/major remedial system components (e.g. the construction of sub-slab depressurization system for a future building), green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), or at any time that the NYSDEC Project Manager feels appropriate (e.g. during significant maintenance events or in conjunction with storm recovery activities).

Modifications resulting from green remediation evaluations will be routinely implemented and scheduled to occur during planned/routine operation and maintenance activities. Reporting of these modifications will be presented in the PRR.

6.3 Remedial System Optimization

A RSO study will be conducted any time that the NYSDEC or the RP requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

- The remedial actions have not met or are not expected to meet RAOs in the time frame estimated in the ROD.
- The management and operation of the remedial system is exceeding the estimated costs.
- The remedial system is not performing as expected or as designed.
- Previously unidentified source material may be suspected.
- Plume shift has potentially occurred.
- Site conditions change due to development, change of use, change in groundwater use, etc.
- There is an anticipated transfer of the site management to another RP or agency.
- A new and applicable remedial technology becomes available.

An RSO will provide a critique of a Site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the Site's cleanup goals, gather additional performance or media specific data and information, and provide recommendations for improvements to enhance the ability of the present system to reach RAOs, or to provide a basis for changing the remedial strategy.

The RSO study will focus on overall site cleanup strategy, process optimization and management with the intent of identifying impediments to cleanup and improvements to site operations to increase efficiency, cost effectiveness and remedial time frames. Green remediation technology and principals are to be considered when performing the RSO.

7 REPORTING REQUIREMENTS

7.1 Site Management Reports

All site management inspection, maintenance, and monitoring events will be recorded on the appropriate site inspection form provided in Appendix I. This form is subject to NYSDEC revision.

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 7.1 and summarized in the PRR.

Table 7.1 – Schedule of Interim Monitoring/Inspection Reports

Task / Report	Reporting Frequency ¹
Periodic Review Report ²	Annually, or as otherwise determined by the Department

Notes:

1. The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.
2. An "Annual Summary Report" will be submitted to NYSDEC until the COC is issued.

All interim monitoring/inspection reports will include, at a minimum:

- Date of event or reporting period.
- Name, company, and position of person(s) conducting monitoring/inspection activities.
- Description of the activities performed.
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet).
- Type of samples collected (e.g., groundwater, NAPL, sub-slab vapor, indoor air, outdoor air, etc.).
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.).
- Sampling results in comparison to appropriate standards/criteria.
- A figure illustrating sample type and sampling locations.
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format).
- Any observations, conclusions, or recommendations.
- A determination as to whether remaining impacts have changed since the last reporting event.
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event.
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities.
- Description of non-routine activities performed.
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet).
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link <http://www.dec.ny.gov/chemical/62440.html>.

7.2 Periodic Review Report

A PRR will be submitted to the NYSDEC beginning sixteen (16) months after the COC is issued. After submittal of the initial PRR, the next PRR shall be submitted to the NYSDEC annually. In the event that the Site is subdivided into separate parcels with different ownership, a single PRR will be prepared that addresses the Site described in the Environmental Easement (Appendix A). The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the PRR. The report will include:

- Identification, assessment, and certification of all ECs/ICs required by the remedy for the Site.
- Results of the required annual site inspections and severe condition inspections, if applicable.
- All applicable site management forms and other records generated for the Site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representations of constituents of concern by media (e.g., groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of constituents' concentration trends.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: <http://www.dec.ny.gov/chemical/62440.html>.

- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the site-specific remedial design documents, ROD or Decision Document.
 - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications.
 - Any new conclusions or observations regarding remaining impacts based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored.
 - Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan.
 - Trends in constituent levels in the affected media will be evaluated to determine if the remedy continues to be effective in achieving remedial goals as specified by the Decision Document.
 - The overall performance and effectiveness of the remedy.

7.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a Professional Engineer licensed to practice in NYS will prepare, and include in the PRR, the following certification as per the requirements of NYSDEC DER-10:

"For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction.*
- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the NYSDEC.*
- *There are no apparent changes that would impair the ability of the control to protect the public health and environment.*
- *There are no apparent changes that would constitute a violation or failure to comply with any site management plan for this control.*
- *Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.*
- *Use of the Site is compliant with the environmental easement.*
- *The site inspection and sampling data demonstrate that engineering control systems are performing as designed and are effective.*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices.*
- *The information presented in this report is accurate and complete.*

Based on my inquiry of NYSEG and persons under my direction who performed that activities summarized herein, I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [insert name of Professional Engineer] of [business address], am certifying as NYSEG's representative for the Site."

The signed certification will be included in the PRR.

The PRR will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the Site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The PRR may need to be submitted in hard-copy format, as requested by the NYSDEC Project Manager.

7.3 Correction Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

7.4 Remedial Site Optimization Report

In the event that an RSO is to be performed (see Section 6.3, upon completion of an RSO, an RSO report must be submitted to the NYSDEC for approval. The RSO report will document the research/ investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual site model and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs, etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the Site is located, Site Control and the NYSDOH Bureau of Environmental Exposure Investigation.

8 REFERENCES

- Arcadis 2015. Construction Completion Report, Dansville Manufactured Gas Plant Site, Operable Unit No. 1, December 2015.
- Arcadis 2016. Interim Site Management Plan (Draft), Dansville Former Manufactured Gas Plant Site, Operable Unit No. 1, January 2016.
- Arcadis 2020. Final Engineering Report, Dansville Manufactured Gas Plant Site, November 2020.
- Ish, Inc. 2006a. Final Supplemental Remedial Investigation (SRI) Report for Operable Unit 1 (OU1) at the Former MGP Site, Dansville, New York, January 2006.
- HDER 2013. Final Engineering Report, Pappas Dry Cleaners. June 2013
- Ish, Inc. 2006b. Synoptic Groundwater Sampling Report for OU1 and OU2 at the Dansville Former MGP Site, Dansville, New York, April 2006.
- Ish, 2006c. Final Supplemental Remedial Investigation (SRI) Report for Operable Unit 2 (OU2) at the Former MGP Site, Dansville, New York, May 2006.
- Ish, Inc. 2006d. Draft Report, Soil Vapor Intrusion Evaluation for Operable Unit 1 at the Former MGP Site in Dansville, New York, May 2006.
- NYSDEC 2008a. Record of Decision, NYSEG Dansville MGP Site Operable Unit No. 1, Site Number 8-26-012, March 2008.
- NYSDEC 2008b. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1), Reissued June 1998 and addended April 2000 and June 2004.
- NYSDEC 2009a. Record of Decision, Pappas Dry Cleaners Site, Operable Unit No. 1, Dansville, Livingston County, Site No. 826018, March 2009.
- NYSDEC 2009b. CP-43, Groundwater Monitoring Well Decommissioning Policy, November 2009.
- NYSDEC 2010. DER-10 Technical Guidance for Site Investigation and Remediation, May 3, 2010.
- NYSDEC 2013. Record of Decision, Pappas Dry Cleaners Site, Operable Unit No. 2, Dansville, Livingston County, Site No. 826018, March 2013.
- NYSDEC 2017. Record of Decision, Operable Unit Number 02: Onsite and Offsite Soil and Groundwater, State Superfund Project, Dansville, Livingston County, Site No. 826012, March 2017.
- NYSDOH 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.
- TRC Environmental Consultants, Inc. 1986. Investigation of the Former Coal Gasification Site in Dansville, New York; Task 1 Report, Preliminary Site Evaluation, August 1986.
- TRC Environmental Consultants, Inc. 1988. Investigation of the Former Coal Gasification Site in Dansville, New York; Task 2 Report, Initial Field Investigation Program, December 1988.
- TRC Environmental Consultants, Inc. 1990. Investigation of the Former Coal Gasification Site in Dansville, New York; Task 3 Report, Additional Field Investigation Program, June 1990.
- TRC Environmental Consultants, Inc. 1991. Task 4 Report; Risk Assessment for the Former Coal Gasification Site in Dansville, New York, May 1991.

TABLES



Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP24 15 - 16 09/21/04	DP40 15 - 16 10/01/04	DP41 13 - 14 10/01/04	DP54 10 - 11 09/01/05	DP54 11 - 12 09/01/05	DP54 15 - 16 09/01/05	DP55 11.5 - 12 09/01/05	DP55 13.5 - 14.5 09/01/05	DP55 19 - 20 09/01/05	DP56 12.5 - 13.5 09/01/05	DP56 18.5 - 19.5 09/01/05	DP12 10 - 12 06/21/04	DP13 10 - 12 06/21/04	DP14 10 - 13 06/22/04	DP15 12 - 14 06/22/04	DP15 18 - 20 06/22/04
Volatile Organic Compounds																		
1,1,1-Trichloroethane	0.68	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,1,2,2-Tetrachloroethane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 UJ	0.0050 U	0.0050 UJ	0.0050 UJ	0.0050 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,1-Dichloroethane	0.27	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 UJ	0.68 U	NA	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,1-Dichloroethene	0.33	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.02	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,2-Dichloroethene (total)	--	mg/kg	NA	NA	1.3 U	0.011 U	NA	0.012 U	1.4 U	NA	0.012 U	0.011 U	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 UJ
1,2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	NA	NA	3.1 U	0.027 U	NA	0.029 U	3.4 U	NA	0.030 U	0.027 U	0.030 U	0.025 UJ	0.025 UJ	0.025 UJ	0.0060 J	0.025 UJ
4-Methyl-2-pentanone (MIBK)	--	mg/kg	NA	NA	3.1 U	0.027 U	NA	0.029 U	3.4 U	NA	0.030 U	0.027 U	0.030 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Acetone (2-propanone)	0.05	mg/kg	NA	NA	3.1 U	0.027 U	NA	0.029 U	3.4 UJ	NA	0.030 U	0.027 U	0.030 U	0.028 UJ	0.026 UJ	0.026 UJ	0.028 UJ	0.028 UJ
Benzene	0.06	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Bromodichloromethane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Bromoform	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 UJ	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Bromomethane (Methyl bromide)	--	mg/kg	NA	NA	0.63 U	0.0050 UJ	NA	0.0060 UJ	0.68 U	NA	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Carbon disulfide	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 UJ	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Carbon tetrachloride	0.76	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Chlorobenzene	1.1	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Chloroethane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 UJ	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Chloroform	0.37	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Chloromethane (Methyl chloride)	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	NA	NA	0.24 J	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0020 J	0.0050 U	0.0010 J	0.0050 U	0.0050 U	0.0050 U	0.24	0.0050 UJ
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	NA	NA	3.1 U	0.027 U	NA	0.029 U	3.4 U	NA	0.030 U	0.027 U	0.030 U	0.025 UJ	0.025 U	0.025 UJ	0.025 UJ	0.025 UJ
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	NA	NA	0.63 U	0.0080 UJ	NA	0.0060 UJ	0.68 U	NA	0.0060 UJ	0.0050 UJ	0.0080 UJ	0.018 U	0.016 U	0.022 U	0.027 U	0.0080 UJ
Styrene	--	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Tetrachloroethene (PCE)	1.3	mg/kg	NA	NA	92 D	0.0010 J	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Toluene	0.7	mg/kg	NA	NA	0.63 U	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0090	0.0050 UJ
Trichloroethene (TCE)	0.47	mg/kg	NA	NA	1.6	0.0050 U	NA	0.0060 U	0.68 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 UJ
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	NA	NA	3.1 U	0.027 U	NA	0.029 UJ	3.4 U	NA	0.030 UJ	0.027 UJ	0.030 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Vinyl chloride	0.02	mg/kg	NA	NA	1.3 U	0.011 U	NA	0.012 U	1.4 U	NA	0.012 U	0.011 U	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 UJ
Xylenes (total)	0.26	mg/kg	NA	NA	0.53 J	0.015 U	NA	0.018 U	2.0 U	NA	0.019	0.015 U	0.011 J	0.015 U	0.015 U	0.015 U	0.35	0.015 UJ
Total BTEX	--	mg/kg	NA	NA	0.77 J	ND	NA	ND	ND	NA	0.021 J	ND	0.012 J	ND	ND	ND	0.60	ND
Semivolatile Organic Compounds																		
1,2,4-Trichlorobenzene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
1,2-Dichlorobenzene	1.1	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
1,3-Dichlorobenzene	2.4	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
1,4-Dichlorobenzene	1.8	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2,4,5-Trichlorophenol	--	mg/kg	1.0 U	1.0 U	NA	NA	0.89 U	0.98 U	NA	0.94 U	0.97 U	0.90 U	0.89 U	0.87 U	0.95 U	9.2 U	0.98 U	0.96 U
2,4,6-Trichlorophenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2,4-Dichlorophenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2,4-Dimethylphenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP24 15 - 16 09/21/04	DP40 15 - 16 10/01/04	DP41 13 - 14 10/01/04	DP54 10 - 11 09/01/05	DP54 11 - 12 09/01/05	DP54 15 - 16 09/01/05	DP55 11.5 - 12 09/01/05	DP55 13.5 - 14.5 09/01/05	DP55 19 - 20 09/01/05	DP56 12.5 - 13.5 09/01/05	DP56 18.5 - 19.5 09/01/05	DP12 10 - 12 06/21/04	DP13 10 - 12 06/21/04	DP14 10 - 13 06/22/04	DP15 12 - 14 06/22/04	DP15 18 - 20 06/22/04
2,4-Dinitrophenol	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 UJ	2.0 UJ	1.9 UJ
2,4-Dinitrotoluene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2,6-Dinitrotoluene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2-Chloronaphthalene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2-Chlorophenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2-Methylnaphthalene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	8.9 D	0.40 U
2-Methylphenol	0.33	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
2-Nitroaniline	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
2-Nitrophenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
3,3'-Dichlorobenzidine	--	mg/kg	0.84 U	0.83 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.72 U	0.78 U	7.6 U	0.81 U	0.80 U
3-Nitroaniline	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
4,6-Dinitro-2-methylphenol	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
4-Bromophenyl phenyl ether	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
4-Chloro-3-methylphenol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
4-Chloroaniline	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
4-chlorophenyl-phenylether	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
4-Methylphenol	0.33	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
4-Nitroaniline	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
4-Nitrophenol	--	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
Acenaphthene	20	mg/kg	5.3	0.42 U	NA	NA	0.37 U	0.40 U	NA	2.8	0.40 U	0.37 U	0.37 U	0.36 UJ	0.39 UJ	12 J	6.2 DJ	0.40 UJ
Acenaphthylene	100	mg/kg	1.4	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.49	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	5.7	1.2	0.40 U
Anthracene	100	mg/kg	6.5 D	0.42 U	NA	NA	0.37 U	0.40 U	NA	2.2	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	4.6	5.2	0.40 U
Benzo(a)anthracene	1	mg/kg	4.5	0.42 U	NA	NA	0.37 U	0.40 U	NA	1.5	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	14	2.6	0.40 U
Benzo(a)pyrene	1	mg/kg	3.1	0.42 U	NA	NA	0.37 U	0.40 U	NA	1.2	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	9.8	1.9	0.40 U
Benzo(b)fluoranthene	1	mg/kg	2.7	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.82	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	4.4	0.95	0.40 U
Benzo(g,h,i)perylene	100	mg/kg	1.8	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.49	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	5.0	0.96	0.40 U
Benzo(k)fluoranthene	0.8	mg/kg	3.2	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.29 J	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	5.6	0.82	0.40 U
Benzoic acid	--	mg/kg	6.1 U	6.0 U	NA	NA	5.4 U	5.9 U	NA	5.6 U	5.8 U	5.4 U	5.4 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
Benzyl alcohol	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Bis(2-chloroethoxy)methane	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Bis(2-chloroethyl)ether	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Bis(2-ethylhexyl)phthalate	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Butyl benzyl phthalate	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Chrysene	1	mg/kg	4.6	0.42 U	NA	NA	0.37 U	0.40 U	NA	1.4	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	13	2.4	0.40 U
Dibenzo(a,h)anthracene	0.33	mg/kg	0.54	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.12 J	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.35 J	0.40 U
Dibenzofuran	7	mg/kg	0.21 J	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.14 J	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.27 J	0.40 U
Diethylphthalate	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Dimethylphthalate	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Di-n-butylphthalate	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Di-n-octylphthalate	--	mg/kg	0.57 U	0.56 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.48 U	0.53 U	5.1 U	0.55 U	0.54 U
Fluoranthene	100	mg/kg	6.2 D	0.42 U	NA	NA	0.37 U	0.40 U	NA	3.2	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	27	5.6	0.40 U
Fluorene	30	mg/kg	4.1	0.42 U	NA	NA	0.37 U	0.40 U	NA	2.0	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	16	4.0	0.40 U
Hexachlorobenzene	0.33	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Hexachlorobutadiene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Hexachlorocyclopentadiene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Hexachloroethane	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	1.2	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.36 J	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.5 J	0.66	0.40 U
Isophorone	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Naphthalene	12	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.11 J	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	15 D	0.40 U
Nitrobenzene	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
N-Nitroso-di-n-propylamine	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
N-Nitrosodiphenylamine	--	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Pentachlorophenol	0.8	mg/kg	2.0 U	2.0 U	NA	NA	1.8 U	2.0 U	NA	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	18 U	2.0 U	1.9 U
Phenanthrene	100	mg/kg	20 D	0.42 U	NA	NA	0.37 U	0.40 U	NA	7.3 D	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	140 D	15 D	0.40 U
Phenol	0.33	mg/kg	0.42 U	0.42 U	NA	NA	0.37 U	0.40 U	NA	0.39 U	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	3.8 U	0.40 U	0.40 U
Pyrene	100	mg/kg	10 D	0.42 U	NA	NA	0.37 U	0.40 U	NA	4.7	0.40 U	0.37 U	0.37 U	0.36 U	0.39 U	43	7.5 D	0.40 U
Pyridine	--	mg/kg	NA	NA	NA	NA	0.89 U	0.98 U	NA	0.94 U	0.97 U	0.90 U	0.89 U	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	0.74 U	0.81 U	NA	0.78 U	0.80 U	0.74 U	0.74 U	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	75	ND	NA	NA	ND	ND	NA	29 J	ND	ND	ND	ND	ND	300 J	79 J	ND

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSEDEC Unrestricted Use SCOs	Units	DP24 15 - 16 09/21/04	DP40 15 - 16 10/01/04	DP41 13 - 14 10/01/04	DP54 10 - 11 09/01/05	DP54 11 - 12 09/01/05	DP54 15 - 16 09/01/05	DP55 11.5 - 12 09/01/05	DP55 13.5 - 14.5 09/01/05	DP55 19 - 20 09/01/05	DP56 12.5 - 13.5 09/01/05	DP56 18.5 - 19.5 09/01/05	DP12 10 - 12 06/21/04	DP13 10 - 12 06/21/04	DP14 10 - 13 06/22/04	DP15 12 - 14 06/22/04	DP15 18 - 20 06/22/04
Inorganics																		
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,340 J	NA	4,060 J	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.7 U	NA	17.8 U	NA	NA
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.60	NA	4.70	NA	NA
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46.7	NA	47.4 U	NA	NA
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	NA	1.20 U	NA	NA
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	NA	1.20 U	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26,400 J	NA	105,000 J	NA	NA
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.7	NA	5.40	NA	NA
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.2 U	NA	11.9 U	NA	NA
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.2	NA	14.8	NA	NA
Cyanide, total	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.990 U	NA	1.00 U	NA	NA
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,000 J	NA	8,860 J	NA	NA
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	7.30	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,500	NA	19,800	NA	NA
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	662 J	NA	569 J	NA	NA
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0160 U	NA	0.0200 U	NA	NA
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.4	NA	9.50 U	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	792	NA	880	NA	NA
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.50 UJ	NA	4.70 UJ	NA	NA
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.20 U	NA	2.40 U	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	121 J	NA	119 U	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.70 U	NA	7.10 U	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.2 U	NA	11.9 U	NA	NA
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.3	NA	37.0	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP16 10 - 12 06/22/04	DP16 23 - 26 06/22/04	DP17 16 - 18.5 06/23/04	DP18 11 - 13 06/24/04	DP18 20 - 22 06/24/04	DP19 11 - 13.5 06/24/04	DP20 11 - 13 06/24/04	DP23 19 - 19.5 09/20/04	DP23 24 - 26 09/20/04	DP24 15 - 16 09/21/04	DP24 19 - 20 09/21/04
Volatile Organic Compounds													
1,1,1-Trichloroethane	0.68	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,1,2,2-Tetrachloroethane	--	mg/kg	0.0050 UJ	0.0050 UJ	0.0050 UJ	0.0050 UJ	0.0050 UJ	0.0050 UJ	0.0050 UJ	0.0050 U	NA	0.0050 U	0.0050 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,1-Dichloroethane	0.27	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,1-Dichloroethene	0.33	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.02	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,2-Dichloroethene (total)	--	mg/kg	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	0.010 U
1,2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 U	NA	0.025 U	0.025 U
4-Methyl-2-pentanone (MIBK)	--	mg/kg	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U
Acetone (2-propanone)	0.05	mg/kg	0.026 UJ	0.028 UJ	0.029 UJ	0.028 UJ	0.028 UJ	0.027 UJ	0.025 U	0.025 U	0.030 U	NA	0.025 U
Benzene	0.06	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0040 J	0.0050 U
Bromodichloromethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Bromoform	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Bromomethane (Methyl bromide)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Carbon disulfide	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Carbon tetrachloride	0.76	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Chlorobenzene	1.1	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Chloroethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Chloroform	0.37	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0020 J	NA	0.0050 U	0.0050 U
Chloromethane (Methyl chloride)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 UJ	0.025 U	0.025 U	NA	0.025 U	0.025 U
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	0.033 UJ	0.024 UJ	0.034 UJ	0.027 UJ	0.026 UJ	0.027 UJ	0.011 UJ	0.0090 J	NA	0.0080 J	0.0090 J
Styrene	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Tetrachloroethene (PCE)	1.3	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.020	0.0050 U	0.0050 U	0.0030 J	0.0060	NA	0.0050 U	0.0050 U
Toluene	0.7	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0020 J	NA	0.026	0.0050 U
Trichloroethene (TCE)	0.47	mg/kg	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	NA	0.025 UJ	0.025 UJ
Vinyl chloride	0.02	mg/kg	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	0.010 U
Xylenes (total)	0.26	mg/kg	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	NA	0.015 U	0.015 U
Total BTEX	--	mg/kg	ND	ND	ND	ND	ND	ND	ND	0.0020 J	NA	0.030 J	ND
Semivolatile Organic Compounds													
1,2,4-Trichlorobenzene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
1,2-Dichlorobenzene	1.1	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
1,3-Dichlorobenzene	2.4	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
1,4-Dichlorobenzene	1.8	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2,4,5-Trichlorophenol	--	mg/kg	0.92 U	1.1 U	0.99 U	0.89 U	0.99 U	0.97 U	0.90 U	NA	1.0 U	NA	1.0 U
2,4,6-Trichlorophenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2,4-Dichlorophenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2,4-Dimethylphenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP16 10 - 12 06/22/04	DP16 23 - 26 06/22/04	DP17 16 - 18.5 06/23/04	DP18 11 - 13 06/24/04	DP18 20 - 22 06/24/04	DP19 11 - 13.5 06/24/04	DP20 11 - 13 06/24/04	DP23 19 - 19.5 09/20/04	DP23 24 - 26 09/20/04	DP24 15 - 16 09/21/04	DP24 19 - 20 09/21/04
2,4-Dinitrophenol	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
2,4-Dinitrotoluene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2,6-Dinitrotoluene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2-Chloronaphthalene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2-Chlorophenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2-Methylnaphthalene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2-Methylphenol	0.33	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
2-Nitroaniline	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
2-Nitrophenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
3,3'-Dichlorobenzidine	--	mg/kg	0.76 U	0.88 U	0.82 U	0.73 U	0.82 U	0.80 U	0.75 U	NA	0.84 U	NA	0.84 U
3-Nitroaniline	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
4,6-Dinitro-2-methylphenol	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
4-Bromophenyl phenyl ether	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
4-Chloro-3-methylphenol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
4-Chloroaniline	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
4-chlorophenyl-phenylether	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
4-Methylphenol	0.33	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
4-Nitroaniline	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
4-Nitrophenol	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
Acenaphthene	20	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Acenaphthylene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Anthracene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzo(a)anthracene	1	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzo(a)pyrene	1	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzo(b)fluoranthene	1	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzo(g,h,i)perylene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzo(k)fluoranthene	0.8	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Benzoic acid	--	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	6.1 U	NA	6.1 U
Benzyl alcohol	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Bis(2-chloroethoxy)methane	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Bis(2-chloroethyl)ether	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Bis(2-ethylhexyl)phthalate	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Butyl benzyl phthalate	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Chrysene	1	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Dibenzo(a,h)anthracene	0.33	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Dibenzofuran	7	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Diethylphthalate	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Dimethylphthalate	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Di-n-butylphthalate	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Di-n-octylphthalate	--	mg/kg	0.51 U	0.59 U	0.55 U	0.50 U	0.55 U	0.54 U	0.50 U	NA	0.57 U	NA	0.57 U
Fluoranthene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Fluorene	30	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Hexachlorobenzene	0.33	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Hexachlorobutadiene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Hexachlorocyclopentadiene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Hexachloroethane	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Isophorone	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Naphthalene	12	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Nitrobenzene	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
N-Nitroso-di-n-propylamine	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
N-Nitrosodiphenylamine	--	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Pentachlorophenol	0.8	mg/kg	1.8 U	2.1 U	2.0 U	1.8 U	2.0 U	1.9 U	1.8 U	NA	2.0 U	NA	2.0 U
Phenanthrene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Phenol	0.33	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Pyrene	100	mg/kg	0.38 U	0.44 U	0.41 U	0.37 U	0.41 U	0.40 U	0.37 U	NA	0.42 U	NA	0.42 U
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP16 10 - 12 06/22/04	DP16 23 - 26 06/22/04	DP17 16 - 18.5 06/23/04	DP18 11 - 13 06/24/04	DP18 20 - 22 06/24/04	DP19 11 - 13.5 06/24/04	DP20 11 - 13 06/24/04	DP23 19 - 19.5 09/20/04	DP23 24 - 26 09/20/04	DP24 15 - 16 09/21/04	DP24 19 - 20 09/21/04
Inorganics													
Aluminum	--	mg/kg	4,140	NA	NA	4,120	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	18.0 UJ	NA	NA	17.2 UJ	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	mg/kg	4.00	NA	NA	4.20	NA	NA	NA	NA	NA	NA	NA
Barium	350	mg/kg	48.0 U	NA	NA	46.0 U	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	mg/kg	1.20 U	NA	NA	1.10 U	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	mg/kg	1.20 U	NA	NA	1.10 U	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	30,500	NA	NA	48,300	NA	NA	NA	NA	NA	NA	NA
Chromium	--	mg/kg	5.90 J	NA	NA	6.30 J	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	mg/kg	12.0 U	NA	NA	11.5 U	NA	NA	NA	NA	NA	NA	NA
Copper	50	mg/kg	14.5	NA	NA	13.6	NA	NA	NA	NA	NA	NA	NA
Cyanide, total	27	mg/kg	1.10 U	NA	NA	1.10 U	NA	NA	NA	NA	NA	NA	NA
Iron	--	mg/kg	9,660	NA	NA	9,710	NA	NA	NA	NA	NA	NA	NA
Lead	63	mg/kg	5.20	NA	NA	4.70	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	7,340	NA	NA	17,900	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	mg/kg	285	NA	NA	428	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	mg/kg	0.0190 U	NA	NA	0.0190 U	NA	NA	NA	NA	NA	NA	NA
Nickel	30	mg/kg	9.60 U	NA	NA	9.20 U	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	1,200 U	NA	NA	1,150 U	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	mg/kg	4.80 UJ	NA	NA	4.60 UJ	NA	NA	NA	NA	NA	NA	NA
Silver	2	mg/kg	2.40 U	NA	NA	2.30 U	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	1,200 U	NA	NA	1,150 U	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	7.20 U	NA	NA	6.90 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	12.0 U	NA	NA	11.5 U	NA	NA	NA	NA	NA	NA	NA
Zinc	109	mg/kg	39.3	NA	NA	36.6	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP25 14.5 - 15.2 09/21/04	DP26 11 - 12 09/21/04	DP27 14 - 15 09/22/04	DP27 15 - 15.5 09/22/04	DP28 11 - 12 09/22/04	DP29 11.2 - 11.7 09/22/04	DP29 12 - 12.5 09/22/04	DP30 11 - 12 09/22/04	DP30 18.5 - 20 09/22/04	DP31 12.8 - 13.2 09/23/04	DP31 13 - 14 09/23/04	DP32 14.5 - 15 09/23/04	DP32 17.5 - 18 09/23/04
Volatile Organic Compounds															
1.1.1-Trichloroethane	0.68	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.1.2.2-Tetrachloroethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.1.2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.1.2-Trichloroethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.1-Dichloroethane	0.27	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.1-Dichloroethene	0.33	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.2.4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.2-Dibromoethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.2-Dichloroethane	0.02	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.2-Dichloroethene (total)	--	mg/kg	0.010 U	0.010 U	0.010 U	NA	0.010 U	0.010 U	NA	1.4 U	1.7 U	0.010 U	NA	0.0050 J	0.0050 J
1.2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.2-Dichloropropane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.3-Dichloropropene (trans)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
1.4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	NA	3.4 U	4.2 U	0.025 U	NA	0.025 U	0.025 U
4-Methyl-2-pentanone (MIBK)	--	mg/kg	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	NA	3.4 U	4.2 U	0.025 U	NA	0.025 U	0.025 U
Acetone (2-propanone)	0.05	mg/kg	0.026 U	0.027 U	0.026 U	NA	0.028 U	0.025 U	NA	R	R	0.027 UJ	NA	0.026 UJ	0.028 UJ
Benzene	0.06	mg/kg	0.0050 U	0.0020 J	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.64	0.0050 U	NA	0.0050 U	0.0050 U
Bromodichloromethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Bromoform	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Bromomethane (Methyl bromide)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	R	0.85 UJ	0.0050 U	NA	0.0050 U	0.0050 U
Carbon disulfide	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 UJ	0.0050 U	NA	0.0020 J	0.0050 U
Carbon tetrachloride	0.76	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Chlorobenzene	1.1	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Chloroethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	R	R	0.0050 U	NA	0.0050 U	0.0050 U
Chloroform	0.37	mg/kg	0.0050 U	0.0050 U	0.0010 J	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Chloromethane (Methyl chloride)	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.17 J	1.3	0.0050 U	NA	0.0050 U	0.0050 U
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	NA	3.4 U	4.2 U	0.025 U	NA	0.025 U	0.025 U
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	0.0080 J	0.0090 J	0.0080 J	NA	0.0080 J	0.0080 J	NA	0.68 U	0.85 U	0.0090 UJ	NA	0.012 UJ	0.012 UJ
Styrene	--	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Tetrachloroethene (PCE)	1.3	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.15	0.12
Toluene	0.7	mg/kg	0.0020 J	0.0090	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.0050 U	0.0050 U
Trichloroethene (TCE)	0.47	mg/kg	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	NA	0.68 U	0.85 U	0.0050 U	NA	0.014	0.024
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	0.025 UJ	0.025 UJ	0.025 UJ	NA	0.025 UJ	0.025 UJ	NA	3.4 UJ	4.2 U	0.025 U	NA	0.025 U	0.025 U
Vinyl chloride	0.02	mg/kg	0.010 U	0.010 U	0.010 U	NA	0.010 U	0.010 U	NA	1.4 U	1.7 U	0.010 U	NA	0.010 U	0.010 U
Xylenes (total)	0.26	mg/kg	0.015 U	0.015 U	0.015 U	NA	0.015 U	0.015 U	NA	2.0 U	0.89 J	0.015 U	NA	0.015 U	0.015 U
Total BTEX	--	mg/kg	0.0020 J	0.011 J	ND	NA	ND	ND	NA	0.17 J	2.8 J	ND	NA	ND	ND
Semivolatile Organic Compounds															
1.2.4-Trichlorobenzene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
1.2-Dichlorobenzene	1.1	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
1.3-Dichlorobenzene	2.4	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
1.4-Dichlorobenzene	1.8	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2.4.5-Trichlorophenol	--	mg/kg	1.0 U	0.86 U	NA	0.92 U	0.90 U	NA	0.83 U	0.89 U	1.0 U	NA	0.82 U	0.97 U	0.87 U
2.4.6-Trichlorophenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2.4-Dichlorophenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2.4-Dimethylphenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP25 14.5 - 15.2 09/21/04	DP26 11 - 12 09/21/04	DP27 14 - 15 09/22/04	DP27 15 - 15.5 09/22/04	DP28 11 - 12 09/22/04	DP29 11.2 - 11.7 09/22/04	DP29 12 - 12.5 09/22/04	DP30 11 - 12 09/22/04	DP30 18.5 - 20 09/22/04	DP31 12.8 - 13.2 09/23/04	DP31 13 - 14 09/23/04	DP32 14.5 - 15 09/23/04	DP32 17.5 - 18 09/23/04
2,4-Dinitrophenol	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
2,4-Dinitrotoluene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2,6-Dinitrotoluene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2-Chloronaphthalene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2-Chlorophenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2-Methylnaphthalene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	3.2	0.22 J	NA	0.34 U	0.40 U	0.36 U
2-Methylphenol	0.33	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
2-Nitroaniline	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
2-Nitrophenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
3,3'-Dichlorobenzidine	--	mg/kg	0.84 U	0.71 U	NA	0.76 U	0.75 U	NA	0.68 U	0.74 U	0.83 U	NA	0.68 U	0.80 U	0.72 U
3-Nitroaniline	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
4,6-Dinitro-2-methylphenol	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
4-Bromophenyl phenyl ether	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
4-Chloro-3-methylphenol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
4-Chloroaniline	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
4-chlorophenyl-phenylether	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
4-Methylphenol	0.33	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
4-Nitroaniline	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
4-Nitrophenol	--	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
Acenaphthene	20	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	4.2	0.26 J	NA	0.34 U	0.40 U	0.36 U
Acenaphthylene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	2.1	0.41 U	NA	0.34 U	0.19 J	0.36 U
Anthracene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	4.6	0.41 U	NA	0.34 U	0.38 J	0.36 U
Benzo(a)anthracene	1	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	4.8	0.41 U	NA	0.34 U	0.34 J	0.36 U
Benzo(a)pyrene	1	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	3.9	0.41 U	NA	0.34 U	0.33 J	0.36 U
Benzo(b)fluoranthene	1	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	3.0 J	0.41 U	NA	0.34 U	0.40 U	0.36 U
Benzo(g,h)perylene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	1.7	0.41 U	NA	0.34 U	0.40 U	0.36 U
Benzo(k)fluoranthene	0.8	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	3.6 J	0.41 U	NA	0.34 U	0.40 U	0.36 U
Benzoic acid	--	mg/kg	6.1 U	5.1 U	NA	5.5 U	5.4 U	NA	5.0 U	5.4 U	6.0 U	NA	4.9 U	5.8 U	5.2 U
Benzyl alcohol	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Bis(2-chloroethoxy)methane	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Bis(2-chloroethyl)ether	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Bis(2-ethylhexyl)phthalate	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Butyl benzyl phthalate	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Chrysene	1	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	4.7	0.41 U	NA	0.34 U	0.34 J	0.36 U
Dibenzo(a,h)anthracene	0.33	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.68	0.41 U	NA	0.34 U	0.40 U	0.36 U
Dibenzofuran	7	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Diethylphthalate	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Dimethylphthalate	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Di-n-butylphthalate	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Di-n-octylphthalate	--	mg/kg	0.56 U	0.48 U	NA	0.52 U	0.50 U	NA	0.46 U	0.50 U	0.56 U	NA	0.46 U	0.54 U	0.49 U
Fluoranthene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	7.4 D	0.41 U	NA	0.34 U	0.49	0.36 U
Fluorene	30	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	3.2	0.41 U	NA	0.34 U	0.16 J	0.36 U
Hexachlorobenzene	0.33	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Hexachlorobutadiene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Hexachlorocyclopentadiene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Hexachloroethane	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	1.2	0.41 U	NA	0.34 U	0.40 U	0.36 U
Isophorone	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Naphthalene	12	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.65	1.3	NA	0.34 U	0.40 U	0.36 U
Nitrobenzene	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
N-Nitroso-di-n-propylamine	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
N-Nitrosodiphenylamine	--	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Pentachlorophenol	0.8	mg/kg	2.0 U	1.7 U	NA	1.8 U	1.8 U	NA	1.6 U	1.8 U	2.0 U	NA	1.6 U	1.9 U	1.7 U
Phenanthrene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	11 D	0.41 U	NA	0.34 U	1.1	0.36 U
Phenol	0.33	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	0.37 U	0.41 U	NA	0.34 U	0.40 U	0.36 U
Pyrene	100	mg/kg	0.42 U	0.35 U	NA	0.38 U	0.37 U	NA	0.34 U	12 D	0.41 U	NA	0.34 U	0.80	0.36 U
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	ND	ND	NA	ND	ND	NA	ND	72 J	1.8 J	NA	ND	4.1 J	ND

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP25 14.5 - 15.2 09/21/04	DP26 11 - 12 09/21/04	DP27 14 - 15 09/22/04	DP27 15 - 15.5 09/22/04	DP28 11 - 12 09/22/04	DP29 11.2 - 11.7 09/22/04	DP29 12 - 12.5 09/22/04	DP30 11 - 12 09/22/04	DP30 18.5 - 20 09/22/04	DP31 12.8 - 13.2 09/23/04	DP31 13 - 14 09/23/04	DP32 14.5 - 15 09/23/04	DP32 17.5 - 18 09/23/04
Inorganics															
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, total	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP33 11.5 - 12	DP33 14 - 15	DP34 13 - 14	DP34 13.5 - 14	DP34 19 - 20	DP35 12.6 - 13.2	DP36 11.5 - 12	DP36 12.4 - 12.8	DP36 17 - 18	DP36 26 - 27	DP37 9 - 10	DP38 10.2 - 11.5	DP39 13.9 - 14.9	DP40 10 - 12	DP40 15 - 16
			09/24/04	09/24/04	09/24/04	09/24/04	09/24/04	09/27/04	09/27/04	09/27/04	09/27/04	09/27/04	09/27/04	09/28/04	09/28/04	10/01/04	10/01/04
Volatile Organic Compounds																	
1,1,1-Trichloroethane	0.68	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2,2-Tetrachloroethane	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethane	0.27	mg/kg	0.0050 U	NA	NA	0.79 UJ	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,1-Dichloroethene	0.33	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.02	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,2-Dichloroethene (total)	--	mg/kg	0.010 U	NA	NA	1.6 U	0.010 U	0.017	0.010 U	NA	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
1,2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	0.025 U	NA	NA	3.9 U	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ
4-Methyl-2-pentanone (MIBK)	--	mg/kg	0.025 U	NA	NA	3.9 U	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acetone (2-propanone)	0.05	mg/kg	0.025 UJ	NA	NA	R	0.027 UJ	0.026 U	0.025 U	NA	0.027 U	0.028 U	0.026 UJ	0.025 U	0.025 U	0.026 U	0.028 U
Benzene	0.06	mg/kg	0.0050 U	NA	NA	0.79 U	0.0030 J	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromodichloromethane	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromoform	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Bromomethane (Methyl bromide)	--	mg/kg	0.0050 U	NA	NA	R	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Carbon disulfide	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0010 J	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Carbon tetrachloride	0.76	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chlorobenzene	1.1	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloroethane	--	mg/kg	0.0050 U	NA	NA	R	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloroform	0.37	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Chloromethane (Methyl chloride)	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromodichloromethane	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	0.0050 U	NA	NA	3.6	0.0050 U	0.0020 J	0.0050 U	NA	0.086	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	0.025 U	NA	NA	3.9 U	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	0.010 UJ	NA	NA	0.70 U	0.0070 UJ	0.0080 UJ	0.0060 UJ	NA	0.010 UJ	0.0070 UJ	0.012 UJ	0.0060 UJ	0.0060 UJ	0.032 UJ	0.025 UJ
Styrene	--	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Tetrachloroethene (PCE)	1.3	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.046	0.014	NA	0.0020 J	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.11	0.0050 U
Toluene	0.7	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.0050 U	0.0050 U	NA	0.0020 J	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Trichloroethene (TCE)	0.47	mg/kg	0.0050 U	NA	NA	0.79 U	0.0050 U	0.022	0.0010 J	NA	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	0.025 U	NA	NA	3.9 UJ	0.025 U	0.025 U	0.025 U	NA	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Vinyl chloride	0.02	mg/kg	0.010 U	NA	NA	1.6 U	0.010 U	0.010 U	0.010 U	NA	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Xylenes (total)	0.26	mg/kg	0.015 U	NA	NA	4.2	0.015 U	0.015 U	0.015 U	NA	0.037	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Total BTEX	--	mg/kg	ND	NA	NA	7.8	0.0030 J	0.0020 J	ND	NA	0.13 J	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
1,3-Dichlorobenzene	2.4	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
1,4-Dichlorobenzene	1.8	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2,4,5-Trichlorophenol	--	mg/kg	NA	0.94 U	0.89 U	NA	1.0 U	0.97 U	NA	0.88 U	0.95 U	1.0 U	0.90 U	1.0 U	1.0 U	0.98 U	NA
2,4,6-Trichlorophenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2,4-Dichlorophenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2,4-Dimethylphenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP33 11.5 - 12 09/24/04	DP33 14 - 15 09/24/04	DP34 13 - 14 09/24/04	DP34 13.5 - 14 09/24/04	DP34 19 - 20 09/24/04	DP35 12.6 - 13.2 09/27/04	DP36 11.5 - 12 09/27/04	DP36 12.4 - 12.8 09/27/04	DP36 17 - 18 09/27/04	DP36 26 - 27 09/27/04	DP37 9 - 10 09/27/04	DP38 10.2 - 11.5 09/28/04	DP39 13.9 - 14.9 10/01/04	DP40 10 - 12 10/01/04	DP40 15 - 16 10/01/04
2,4-Dinitrophenol	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 UJ	1.8 UJ	2.1 UJ	2.1 UJ	2.0 U	NA
2,4-Dinitrotoluene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2,6-Dinitrotoluene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2-Chloronaphthalene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2-Chlorophenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2-Methylnaphthalene	--	mg/kg	NA	0.39 U	14 D	NA	0.16 J	0.24 J	NA	0.36 U	0.47	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2-Methylphenol	0.33	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
2-Nitroaniline	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
2-Nitrophenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
3,3'-Dichlorobenzidine	--	mg/kg	NA	0.78 U	0.73 U	NA	0.84 U	0.80 U	NA	0.72 U	0.78 U	0.83 U	0.74 U	0.86 U	0.86 U	0.81 U	NA
3-Nitroaniline	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
4,6-Dinitro-2-methylphenol	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
4-Bromophenyl phenyl ether	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
4-Chloro-3-methylphenol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
4-Chloroaniline	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
4-chlorophenyl-phenylether	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
4-Methylphenol	0.33	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
4-Nitroaniline	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
4-Nitrophenol	--	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
Acenaphthene	20	mg/kg	NA	0.39 U	15 D	NA	0.17 J	0.24 J	NA	0.36 U	0.14 J	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Acenaphthylene	100	mg/kg	NA	0.39 U	2.8	NA	0.42 U	0.21 J	NA	0.36 U	0.35 J	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Anthracene	100	mg/kg	NA	0.39 U	13 D	NA	0.42 U	0.44	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Benzo(a)anthracene	1	mg/kg	NA	0.39 U	6.3 D	NA	0.42 U	0.42	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Benzo(a)pyrene	1	mg/kg	NA	0.39 U	4.0	NA	0.42 U	0.24 J	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Benzo(b)fluoranthene	1	mg/kg	NA	0.39 U	3.2 J	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Benzo(g,h,i)perylene	100	mg/kg	NA	0.39 U	1.4	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Benzo(k)fluoranthene	0.8	mg/kg	NA	0.39 U	3.9 J	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 UJ	0.37 UJ	0.43 UJ	0.43 UJ	0.41 U	NA
Benzoic acid	--	mg/kg	NA	5.6 U	5.3 U	NA	6.1 U	5.8 UJ	NA	5.2 UJ	5.7 UJ	6.0 U	5.4 U	6.3 U	6.3 U	5.9 U	NA
Benzyl alcohol	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Bis(2-chloroethoxy)methane	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Bis(2-chloroethyl)ether	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Bis(2-ethylhexyl)phthalate	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Butyl benzyl phthalate	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Chrysene	1	mg/kg	NA	0.39 U	6.0 D	NA	0.42 U	0.38 J	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Dibenzo(a,h)anthracene	0.33	mg/kg	NA	0.39 U	0.66	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Dibenzofuran	7	mg/kg	NA	0.39 U	0.66	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Diethylphthalate	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Dimethylphthalate	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Di-n-butylphthalate	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Di-n-octylphthalate	--	mg/kg	NA	0.52 U	0.49 U	NA	0.56 U	0.54 U	NA	0.49 U	0.53 U	0.56 U	0.50 U	0.58 U	0.58 U	0.55 U	NA
Fluoranthene	100	mg/kg	NA	0.39 U	13 D	NA	0.42 U	0.64	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Fluorene	30	mg/kg	NA	0.39 U	9.2 D	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Hexachlorobenzene	0.33	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Hexachlorobutadiene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Hexachlorocyclopentadiene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 UJ	NA	0.36 UJ	0.39 UJ	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Hexachloroethane	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	NA	0.39 U	1.2	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Isophorone	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Naphthalene	12	mg/kg	NA	0.39 U	14 D	NA	0.17 J	0.40 U	NA	0.36 U	0.24 J	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Nitrobenzene	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
N-Nitroso-di-n-propylamine	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
N-Nitrosodiphenylamine	--	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Pentachlorophenol	0.8	mg/kg	NA	1.9 U	1.8 U	NA	2.0 U	1.9 U	NA	1.8 U	1.9 U	2.0 U	1.8 U	2.1 U	2.1 U	2.0 U	NA
Phenanthrene	100	mg/kg	NA	0.39 U	43 D	NA	0.46	1.6	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Phenol	0.33	mg/kg	NA	0.39 U	0.36 U	NA	0.42 U	0.40 U	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Pyrene	100	mg/kg	NA	0.39 U	18 D	NA	0.20 J	1.1	NA	0.36 U	0.39 U	0.41 U	0.37 U	0.43 U	0.43 U	0.41 U	NA
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	NA	ND	170 J	NA	1.2 J	5.5 J	NA	ND	1.2 J	ND	ND	ND	ND	ND	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP33 11.5 - 12 09/24/04	DP33 14 - 15 09/24/04	DP34 13 - 14 09/24/04	DP34 13.5 - 14 09/24/04	DP34 19 - 20 09/24/04	DP35 12.6 - 13.2 09/27/04	DP36 11.5 - 12 09/27/04	DP36 12.4 - 12.8 09/27/04	DP36 17 - 18 09/27/04	DP36 26 - 27 09/27/04	DP37 9 - 10 09/27/04	DP38 10.2 - 11.5 09/28/04	DP39 13.9 - 14.9 09/28/04	DP40 10 - 12 10/01/04	DP40 15 - 16 10/01/04
Inorganics																	
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, total	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP41 11.5 - 12 10/01/04	DP41 13 - 14 10/01/04	DP41 23 - 24 10/01/04	DP43 10 - 11.5 05/10/05	DP43 14.5 - 15.5 05/10/05	DP43 30 - 32 05/10/05	DP44 14 - 15 05/10/05	DP44 15 - 16 05/10/05	DP44 21.5 - 22.5 05/10/05	DP45 11.5 - 12 05/10/05	DP45 12 - 13 05/10/05	DP45 13 - 13.5 05/10/05	DP45 15.5 - 16 05/10/05	DP45 18 - 20 05/10/05	DP46 12 - 13 05/11/05	DP46 25 - 26 05/11/05	DP47 9 - 10 05/11/05	DP47 18.5 - 19.5 05/11/05
Volatile Organic Compounds																				
1,1,1-Trichloroethane	0.68	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,1,2,2-Tetrachloroethane	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,1-Dichloroethane	0.27	mg/kg	0.71 UJ	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,1-Dichloroethene	0.33	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromomethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.02	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,2-Dichloroethene (total)	--	mg/kg	1.4 U	NA	0.010 U	0.011 U	0.012 U	0.011 U	NA	0.011 U	0.012 U	NA	0.0050 J	NA	0.011 U	0.013 U	0.011 U	0.012 U	0.011 U	0.012 U
1,2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	3.5 U	NA	0.025 U	0.027 U	0.031 U	0.028 U	NA	0.028 U	0.031 U	NA	0.026 U	NA	0.029 U	0.032 U	0.028 U	0.031 U	0.028 U	0.031 U
4-Methyl-2-pentanone (MIBK)	--	mg/kg	3.5 U	NA	0.025 U	0.027 U	0.031 U	0.028 U	NA	0.028 U	0.031 U	NA	0.026 U	NA	0.029 U	0.032 U	0.028 U	0.031 U	0.028 U	0.031 U
Acetone (2-propanone)	0.05	mg/kg	3.5 UJ	NA	0.026 U	0.027 UJ	0.031 U	0.028 UJ	NA	0.028 U	0.031 UJ	NA	0.026 U	NA	0.029 UJ	0.032 U	0.028 U	0.031 U	0.028 U	0.031 U
Benzene	0.06	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Bromodichloromethane	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Bromoform	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Bromomethane (Methyl bromide)	--	mg/kg	R	NA	0.0050 U	0.0050 UJ	0.0060 U	0.0060 UJ	NA	0.0060 U	0.0060 UJ	NA	0.0050 U	NA	0.0060 UJ	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Carbon disulfide	--	mg/kg	0.71 UJ	NA	0.0010 J	0.0050 UJ	0.0060 U	0.0060 UJ	NA	0.0060 U	0.0060 UJ	NA	0.0050 U	NA	0.0060 UJ	0.0060 U	0.0060 UJ	0.0060 UJ	0.0060 U	0.0060 U
Carbon tetrachloride	0.76	mg/kg	0.71 UJ	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chlorobenzene	1.1	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chloroethane	--	mg/kg	R	NA	0.0050 U	0.0050 UJ	0.0060 U	0.0060 UJ	NA	0.0060 U	0.0060 UJ	NA	0.0050 U	NA	0.0060 UJ	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chloroform	0.37	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chloromethane (Methyl chloride)	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.069	NA	0.068	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	3.5 U	NA	0.025 U	0.027 U	0.031 U	0.028 U	NA	0.028 U	0.031 U	NA	0.026 U	NA	0.029 U	0.032 U	0.028 U	0.031 U	0.028 U	0.031 U
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	0.71 UJ	NA	0.017 U	0.0050 UJ	0.0060 UJ	0.0060 UJ	NA	0.0060 UJ	0.0060 UJ	NA	0.0050 UJ	NA	0.0060 UJ	0.0060 UJ	0.0060 UJ	0.0060 UJ	0.0060 UJ	0.0060 UJ
Styrene	--	mg/kg	0.71 U	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0060 U	0.0060 U	NA	0.0050 U	NA	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Tetrachloroethene (PCE)	1.3	mg/kg	4.2	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.051	0.0060 U	NA	0.021	NA	0.0060 U	0.0060 U	0.054	0.0060 U	0.0060 U	0.0060 U
Toluene	0.7	mg/kg	0.71 U	NA	0.0050 U	0.0050	0.0060 U	0.014	NA	0.0060 U	0.028	NA	0.0020 J	NA	0.026	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Trichloroethene (TCE)	0.47	mg/kg	0.59 J	NA	0.0050 U	0.0050 U	0.0060 U	0.0060 U	NA	0.0020 J	0.0060 U	NA	0.0040 J	NA	0.0060 U	0.0060 U	0.0020 J	0.0060 U	0.0060 U	0.0060 U
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	3.5 UJ	NA	0.025 U	0.027 UJ	0.031 U	0.028 UJ	NA	0.028 U	0.031 UJ	NA	0.026 U	NA	0.029 UJ	0.032 U	0.028 U	0.031 U	0.028 U	0.031 U
Vinyl chloride	0.02	mg/kg	1.4 U	NA	0.010 U	0.011 U	0.012 U	0.011 U	NA	0.011 U	0.012 U	NA	0.010 U	NA	0.011 U	0.0020 J	0.011 U	0.012 U	0.011 U	0.012 U
Xylenes (total)	0.26	mg/kg	2.1 U	NA	0.015 U	0.016 U	0.019 U	0.017 U	NA	0.017 U	0.019 U	NA	0.064 J	NA	0.059 J	0.019 U	0.016 U	0.018 U	0.017 U	0.018 U
Total BTEX	--	mg/kg	ND	NA	ND	0.0050	ND	0.014	NA	ND	0.028	NA	0.14 J	NA	0.15 J	ND	ND	ND	ND	ND
Semivolatile Organic Compounds																				
1,2,																				

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDC Unrestricted Use SCOs	Units	DP41 11.5 - 12 10/01/04	DP41 13 - 14 10/01/04	DP41 23 - 24 10/01/04	DP43 10 - 11.5 05/10/05	DP43 14.5 - 15.5 05/10/05	DP43 30 - 32 05/10/05	DP44 14 - 15 05/10/05	DP44 15 - 16 05/10/05	DP44 21.5 - 22.5 05/10/05	DP45 11.5 - 12 05/10/05	DP45 12 - 13 05/10/05	DP45 13 - 13.5 05/10/05	DP45 15.5 - 16 05/10/05	DP45 18 - 20 05/10/05	DP46 12 - 13 05/11/05	DP46 25 - 26 05/11/05	DP47 9 - 10 05/11/05	DP47 18.5 - 19.5 05/11/05
2,4-Dinitrophenol	--	mg/kg	18 UJ	18 U	1.9 U	1.7 UJ	1.9 UJ	1.9 UJ	1.8 UJ	NA	2.0 UJ	NA	NA	1.9 UJ	1.8 UJ	2.0 UJ	1.8 UJ	1.9 UJ	1.7 UJ	2.0 UJ
2,4-Dinitrotoluene	--	mg/kg	3.6 UJ	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2,6-Dinitrotoluene	--	mg/kg	3.6 UJ	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2-Chloronaphthalene	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2-Chlorophenol	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2-Methylnaphthalene	--	mg/kg	3.6 U	8.5	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2-Methylphenol	0.33	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
2-Nitroaniline	--	mg/kg	18 U	18 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	NA	2.0 U	NA	NA	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	1.7 U	2.0 U
2-Nitrophenol	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
3,3'-Dichlorobenzidine	--	mg/kg	7.3 U	7.5 U	0.79 U	0.72 U	0.80 U	0.77 U	0.75 U	NA	0.85 U	NA	NA	0.80 U	0.37 U	0.84 U	0.74 U	0.80 U	0.71 U	0.85 U
3-Nitroaniline	--	mg/kg	18 U	18 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	NA	2.0 U	NA	NA	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	1.7 U	2.0 U
4,6-Dinitro-2-methylphenol	--	mg/kg	18 U	18 U	1.9 U	1.7 UJ	1.9 UJ	1.9 UJ	1.8 UJ	NA	2.0 UJ	NA	NA	1.9 UJ	1.8 UJ	2.0 UJ	1.8 UJ	1.9 UJ	1.7 UJ	2.0 UJ
4-Bromophenyl phenyl ether	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
4-Chloro-3-methylphenol	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
4-Chloroaniline	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
4-chlorophenyl-phenylether	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
4-Methylphenol	0.33	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
4-Nitroaniline	--	mg/kg	18 U	18 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	NA	2.0 U	NA	NA	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	1.7 U	2.0 U
4-Nitrophenol	--	mg/kg	18 U	18 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	NA	2.0 U	NA	NA	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	1.7 U	2.0 U
Acenaphthene	20	mg/kg	3.7	23	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.37 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Acenaphthylene	100	mg/kg	3.6 U	6.4	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.19 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Anthracene	100	mg/kg	2.0 J	23	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.48	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzo(a)anthracene	1	mg/kg	1.9 J	12	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.30 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzo(a)pyrene	1	mg/kg	2.1 J	9.1	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.23 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzo(b)fluoranthene	1	mg/kg	2.1 J	3.5 J	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzo(g,h,i)perylene	100	mg/kg	3.1 J	4.6	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzo(k)fluoranthene	0.8	mg/kg	3.0 J	5.6	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Benzoic acid	--	mg/kg	53 U	54 U	5.8 U	5.2 UJ	5.8 UJ	5.6 UJ	5.5 UJ	NA	6.2 UJ	NA	NA	5.8 UJ	5.4 UJ	6.1 UJ	5.4 UJ	5.8 UJ	5.2 UJ	6.2 UJ
Benzyl alcohol	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Bis(2-chloroethoxy)methane	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Bis(2-chloroethyl)ether	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Bis(2-ethylhexyl)phthalate	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Butyl benzyl phthalate	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Chrysene	1	mg/kg	1.9 J	11	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.25 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Dibenzo(a,h)anthracene	0.33	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Dibenzofuran	7	mg/kg	3.6 U	1.5 J	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Diethylphthalate	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Dimethylphthalate	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Di-n-butylphthalate	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Di-n-octylphthalate	--	mg/kg	4.9 U	5.0 U	0.54 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Fluoranthene	100	mg/kg	3.9	28	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.64	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Fluorene	30	mg/kg	1.6 J	13	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.34 J	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Hexachlorobenzene	0.33	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Hexachlorobutadiene	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Hexachlorocyclopentadiene	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Hexachloroethane	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	3.6 U	3.0 J	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Isophorone	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Naphthalene	12	mg/kg	3.6 U	16	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.16 J	0.37	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Nitrobenzene	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
N-Nitroso-di-n-propylamine	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
N-Nitrosodiphenylamine	--	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Pentachlorophenol	0.8	mg/kg	18 U	18 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	NA	2.0 U	NA	NA	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	1.7 U	2.0 U
Phenanthrene	100	mg/kg	5.9	80 D	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	1.8	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Phenol	0.33	mg/kg	3.6 U	3.7 U	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.40 U	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Pyrene	100	mg/kg	6.7	40	0.40 U	0.36 U	0.40 U	0.38 U	0.38 U	NA	0.42 U	NA	NA	0.80	0.37 U	0.42 U	0.37 U	0.40 U	0.36 U	0.42 U
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	38 J	290 J	ND	ND	ND	ND	ND	NA	ND	NA	NA	5.6 J	0.37	ND	ND	ND	ND	ND

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSEDEC Unrestricted Use SCOs	Units	DP41 11.5 - 12 10/01/04	DP41 13 - 14 10/01/04	DP41 23 - 24 10/01/04	DP43 10 - 11.5 05/10/05	DP43 14.5 - 15.5 05/10/05	DP43 30 - 32 05/10/05	DP44 14 - 15 05/10/05	DP44 15 - 16 05/10/05	DP44 21.5 - 22.5 05/10/05	DP45 11.5 - 12 05/10/05	DP45 12 - 13 05/10/05	DP45 13 - 13.5 05/10/05	DP45 15.5 - 16 05/10/05	DP45 18 - 20 05/10/05	DP46 12 - 13 05/11/05	DP46 25 - 26 05/11/05	DP47 9 - 10 05/11/05	DP47 18.5 - 19.5 05/11/05
Inorganics																				
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, total	27	mg/kg	NA	NA	NA	0.900 UJ	NA	1.10 UJ	NA	NA	NA	0.730 UJ	NA	NA	NA	NA	1.00 UJ	NA	NA	NA
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP48 15 - 16 05/11/05	DP48 21 - 22 05/11/05	DP49 13 - 14 05/12/05	DP49 22 - 23 05/12/05	DP50 13 - 14.5 05/12/05	DP50 21 - 22 05/12/05	DP51 12 - 12.3 05/12/05	DP51 12.5 - 13.5 05/12/05	DP51 20 - 21 05/12/05	DP52 12 - 12.5 05/13/05	DP52 17 - 18 05/13/05	DP53 10.5 - 11.5 05/13/05	DP53 16 - 17 05/13/05	DP54 11 - 12 09/01/05	DP55 13.5 - 14.5 09/01/05
Volatile Organic Compounds																	
1,1,1-Trichloroethane	0.68	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,1,2,2-Tetrachloroethane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,1-Dichloroethane	0.27	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,1-Dichloroethene	0.33	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.02	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,2-Dichloroethene (total)	--	mg/kg	0.057 U	0.012 U	0.012 U	0.013 U	0.011 U	0.012 U	0.0040 J	NA	0.011 U	0.010 U	0.011 U	0.010 U	0.012 U	NA	NA
1,2-Dichloroethene (trans)	0.19	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (cis)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropene (trans)	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	0.14 U	0.029 U	0.029 U	0.032 UJ	0.027 U	0.029 U	0.024 U	NA	0.028 U	0.024 U	0.028 U	0.026 U	0.030 UJ	NA	NA
4-Methyl-2-pentanone (MIBK)	--	mg/kg	0.14 U	0.029 U	0.029 U	0.032 UJ	0.027 U	0.029 U	0.024 U	NA	0.028 U	0.024 U	0.028 U	0.026 U	0.030 UJ	NA	NA
Acetone (2-propanone)	0.05	mg/kg	0.14 U	0.029 U	0.029 U	0.032 UJ	0.027 U	0.029 UJ	0.024 U	NA	0.028 U	0.024 U	0.028 U	0.026 U	0.030 U	NA	NA
Benzene	0.06	mg/kg	0.065	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 UJ	NA	NA
Bromodichloromethane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Bromoform	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Bromomethane (Methyl bromide)	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 UJ	0.0050 U	0.0060 UJ	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Carbon disulfide	--	mg/kg	0.029 U	0.0060 UJ	0.0060 UJ	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0010 J	NA	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0050 UJ	0.0060 U	NA	NA
Carbon tetrachloride	0.76	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Chlorobenzene	1.1	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 UJ	NA	NA
Chloroethane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 UJ	0.0050 U	0.0060 UJ	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Chloroform	0.37	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Chloromethane (Methyl chloride)	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 UJ	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Dichlorodifluoromethane (Freon 12)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	1	mg/kg	0.24	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0070	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0020 J	NA	NA
Isopropylbenzene (Cumene)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	0.14 U	0.029 U	0.029 U	0.032 U	0.027 U	0.029 U	0.024 U	NA	0.028 U	0.024 U	0.028 U	0.026 U	0.030 UJ	NA	NA
Methyl cyclohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.05	mg/kg	0.029 UJ	0.0060 UJ	0.0060 UJ	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0050 UJ	NA	0.0060 UJ	0.0050 UJ	0.0060 UJ	0.0050 UJ	0.0060 UJ	NA	NA
Styrene	--	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0050 U	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Tetrachloroethene (PCE)	1.3	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.024 J	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 U	NA	NA
Toluene	0.7	mg/kg	0.053 U	0.012 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.018 U	NA	0.0060 U	0.017 U	0.0060 U	0.0060 U	0.026 J	NA	NA
Trichloroethene (TCE)	0.47	mg/kg	0.029 U	0.0060 U	0.0060 U	0.0060 U	0.0050 U	0.0060 U	0.0040 J	NA	0.0060 U	0.0050 U	0.0060 U	0.0050 U	0.0060 UJ	NA	NA
Trichlorofluoromethane (Freon 11)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	mg/kg	0.14 U	0.029 U	0.029 U	0.032 UJ	0.027 U	0.029 U	0.024 U	NA	0.028 U	0.024 U	0.028 U	0.026 U	0.030 U	NA	NA
Vinyl chloride	0.02	mg/kg	0.057 U	0.012 U	0.012 U	0.013 U	0.011 U	0.012 U	0.010 U	NA	0.011 U	0.010 U	0.011 U	0.010 U	0.012 U	NA	NA
Xylenes (total)	0.26	mg/kg	0.24 J	0.018 U	0.017 U	0.019 U	0.016 U	0.0050 J	0.017 J	NA	0.016 U	0.014 U	0.017 U	0.016 U	0.0080 J	NA	NA
Total BTEX	--	mg/kg	0.55 J	ND	ND	ND	ND	0.0050 J	0.024 J	NA	ND	ND	ND	ND	0.036 J	NA	NA
Semivolatile Organic Compounds																	
1,2,4-Trichlorobenzene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
1,3-Dichlorobenzene	2.4	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
1,4-Dichlorobenzene	1.8	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2,4,5-Trichlorophenol	--	mg/kg	1.0 U	0.99 U	0.97 U	0.92 U	0.88 U	1.0 U	NA	0.98 U	0.96 U	0.89 U	0.96 U	0.88 U	0.94 U	NA	NA
2,4,6-Trichlorophenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2,4-Dichlorophenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2,4-Dimethylphenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Unrestricted Use SCOs	Units	DP48 15 - 16 05/11/05	DP48 21 - 22 05/11/05	DP49 13 - 14 05/12/05	DP49 22 - 23 05/12/05	DP50 13 - 14.5 05/12/05	DP50 21 - 22 05/12/05	DP51 12 - 12.3 05/12/05	DP51 12.5 - 13.5 05/12/05	DP51 20 - 21 05/12/05	DP52 12 - 12.5 05/13/05	DP52 17 - 18 05/13/05	DP53 10.5 - 11.5 05/13/05	DP53 16 - 17 05/13/05	DP54 11 - 12 09/01/05	DP55 13.5 - 14.5 09/01/05
2,4-Dinitrophenol	--	mg/kg	2.0 UJ	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
2,4-Dinitrotoluene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2,6-Dinitrotoluene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2-Chloronaphthalene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2-Chlorophenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2-Methylnaphthalene	--	mg/kg	0.46	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2-Methylphenol	0.33	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
2-Nitroaniline	--	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
2-Nitrophenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
3,3'-Dichlorobenzidine	--	mg/kg	0.82 U	0.82 U	0.80 U	0.76 U	0.73 U	0.82 U	NA	0.81 U	0.79 U	0.73 U	0.79 U	0.73 U	0.78 U	NA	NA
3-Nitroaniline	--	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
4,6-Dinitro-2-methylphenol	--	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
4-Bromophenyl phenyl ether	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
4-Chloro-3-methylphenol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
4-Chloroaniline	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
4-chlorophenyl-phenylether	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
4-Methylphenol	0.33	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
4-Nitroaniline	--	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
4-Nitrophenol	--	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
Acenaphthene	20	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Acenaphthylene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Anthracene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzo(a)anthracene	1	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzo(a)pyrene	1	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzo(b)fluoranthene	1	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzo(g,h,i)perylene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzo(k)fluoranthene	0.8	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Benzoic acid	--	mg/kg	6.0 U	5.9 U	5.8 U	5.5 U	5.3 U	6.0 U	NA	5.9 U	5.7 U	5.3 U	5.7 U	5.3 U	5.7 U	NA	NA
Benzyl alcohol	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Bis(2-chloroethoxy)methane	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Bis(2-chloroethyl)ether	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Bis(2-ethylhexyl)phthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Butyl benzyl phthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Chrysene	1	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Dibenzo(a,h)anthracene	0.33	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Dibenzofuran	7	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Diethylphthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Dimethylphthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Di-n-butylphthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Di-n-octylphthalate	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Fluoranthene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.19 J	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Fluorene	30	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Hexachlorobenzene	0.33	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Hexachlorobutadiene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Hexachlorocyclopentadiene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Hexachloroethane	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Isophorone	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Naphthalene	12	mg/kg	2.1	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Nitrobenzene	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
N-Nitroso-di-n-propylamine	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
N-Nitrosodiphenylamine	--	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Pentachlorophenol	0.8	mg/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	NA	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	NA	NA
Phenanthrene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.24 J	0.41 U	NA	0.32 J	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Phenol	0.33	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.36 U	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Pyrene	100	mg/kg	0.41 U	0.41 U	0.40 U	0.38 U	0.29 J	0.41 U	NA	0.40 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	NA	NA
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	2.6	ND	ND	ND	0.72 J	ND	NA	0.32 J	ND	ND	ND	ND	ND	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID:	NYSDEC		DP48	DP48	DP49	DP49	DP50	DP50	DP51	DP51	DP51	DP52	DP52	DP53	DP53	DP54	DP55
Sample Depth(Feet):	Unrestricted Use	Units	15 - 16	21 - 22	13 - 14	22 - 23	13 - 14.5	21 - 22	12 - 12.3	12.5 - 13.5	20 - 21	12 - 12.5	17 - 18	10.5 - 11.5	16 - 17	11 - 12	13.5 - 14.5
Date Collected:	SCOs		05/11/05	05/11/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05	05/13/05	05/13/05	05/13/05	05/13/05	09/01/05	09/01/05
Inorganics																	
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,190	8,260
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.4 U	17.1 U
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.00	4.00
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	202	45.7 U
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	1.10 U
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	1.10 U
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65,800 J	38,900 J
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.90	7.90
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.0 U	11.4 U
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.5	17.6
Cyanide, total	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10 U	1.00 UJ
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,800	12,300
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.50	6.60
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,160	11,500
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,810	535
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0200 U	0.0190 U
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.4	12.8
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100 U	1,140 U
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.40 U	4.60 U
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.20 U	2.30 U
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,100 U	1,140 U
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.60 U	6.80 U
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.0 U	11.4 U
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48.1 J	52.2 J

Table 1
Soil Analytical Summary
Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDC Unrestricted Use SCOs	Units	MW-1805 12.5 - 13 12/05/18	MW-1805 16 - 17 12/05/18	MW-1806 11 - 13 12/06/18	MW-1806 14 - 15 12/06/18	MW-1807 9 - 11 12/06/18	MW-1807 16 - 17 12/06/18	MW-1809 9 - 11 12/06/18	MW-1809 14 - 15 12/06/18	MW-1810 7 - 9 10/08/18	MW-1810 11.5 - 12 10/08/18	MW-1810 20.5 - 21 10/08/18
Volatile Organic Compounds													
1,1,1-Trichloroethane	0.68	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,1,2,2-Tetrachloroethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 UJ	0.0040 UJ	0.11 U
1,1,2-Trichloroethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,1-Dichloroethane	0.27	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,1-Dichloroethene	0.33	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2,4-Trichlorobenzene	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dibromo-3-chloropropane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dibromoethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dichlorobenzene	1.1	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dichloroethane	0.02	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 UJ	0.0040 UJ	0.11 U
1,2-Dichloroethene (cis) (DCE)	0.25	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dichloroethene (total)	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (trans)	0.19	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,2-Dichloropropane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,3-Dichlorobenzene	2.4	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,3-Dichloropropene (cis)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,3-Dichloropropene (trans)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
1,4-Dichlorobenzene	1.8	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
2-Butanone (Methyl ethyl ketone)	0.12	mg/kg	0.95 U	1.3 U	0.53 U	0.69 U	0.018 U	0.025 UJ	0.023 U	0.024 U	0.024 U	0.020 U	0.56 U
4-Methyl-2-pentanone (MIBK)	--	mg/kg	0.95 U	1.3 U	0.53 U	0.69 U	0.018 U	0.025 UJ	0.023 U	0.024 U	0.024 U	0.020 U	0.56 U
Acetone (2-propanone)	0.05	mg/kg	0.95 U	1.3 U	0.53 U	0.69 U	0.033	0.093 J	0.032	0.031	0.062	0.020	0.56 U
Benzene	0.06	mg/kg	0.19 U	0.23 J	0.11 U	0.055 J	0.0036 U	0.12 J	0.00027 J	0.0048 U	0.0048 U	0.0040 U	0.38
Bromodichloromethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Bromoform	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Bromomethane (Methyl bromide)	--	mg/kg	0.19 U	0.26 U	0.11 UJ	0.14 UJ	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Carbon disulfide	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 UJ	0.0048 UJ	0.0048 U	0.0040 U	0.11 U
Carbon tetrachloride	0.76	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Chlorobenzene	1.1	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Chloroethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Chloroform	0.37	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 UB	0.11 U
Chloromethane (Methyl chloride)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Cyclohexane	--	mg/kg	0.19 U	0.085 J	0.11 U	0.12 J	0.0036 U	0.00082 J	0.0045 UJ	0.0048 UJ	0.0048 U	0.0040 U	0.031 J
Dibromochloromethane	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Dichlorodifluoromethane (Freon 12)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 UJ
Ethylbenzene	1	mg/kg	0.19 U	2.4	2.1	5.3	0.0036 U	0.084 J	0.0077	0.0048 U	0.0048 U	0.0040 U	3.9
Isopropylbenzene (Cumene)	--	mg/kg	0.19 U	0.30	0.19	0.43	0.0036 U	0.0051 U	0.00075 J	0.0048 U	0.0048 U	0.0040 U	0.12
Methyl Acetate	--	mg/kg	0.95 U	1.3 U	0.53 U	0.69 U	0.011 J	0.0036 J	0.023 U	0.024 U	0.024 U	0.020 U	0.56 U
Methyl Butyl Ketone (2-Hexanone)	--	mg/kg	0.95 U	1.3 U	0.53 U	0.69 U	0.018 U	0.025 UJ	0.023 U	0.024 U	0.024 U	0.020 U	0.56 U
Methyl cyclohexane	--	mg/kg	0.19 U	0.15 J	0.78	0.74	0.0036 U	0.0051 UJ	0.0013 J	0.0045 U	0.0048 U	0.0040 U	0.11 U
Methyl tert-Butyl Ether (MTBE)	0.93	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Methylene chloride	0.05	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0054	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 UB	0.11 U
Styrene	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.37
Tetrachloroethene (PCE)	1.3	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 UJ	0.0045 U	0.0048 U	0.0048 U	0.0013 J	0.11 U
Toluene	0.7	mg/kg	0.19 U	0.26 U	0.075 J	0.15	0.00062 J	0.015	0.0012 J	0.0010 J	0.0015 J	0.0040 U	0.36
Trichloroethene (TCE)	0.47	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Trichlorofluoromethane (Freon 11)	--	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Vinyl Acetate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	mg/kg	0.19 U	0.26 U	0.11 U	0.14 U	0.0036 U	0.0051 U	0.0045 U	0.0048 U	0.0048 U	0.0040 U	0.11 U
Xylenes (total)	0.26	mg/kg	0.38 U	2.3	1.3	2.9	0.0072 U	0.089 J	0.0051 J	0.0097 U	0.0096 U	0.0081 U	5.4
Total BTEX	--	mg/kg	ND	4.9 J	3.5 J	8.4 J	0.00062 J	0.31	0.014 J	0.0010 J	0.0015 J	ND	10
Semivolatile Organic Compounds													
1,2,4-Trichlorobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	2.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDC Unrestricted Use SCOs	Units	MW-1805 12.5 - 13 12/05/18	MW-1805 16 - 17 12/05/18	MW-1806 11 - 13 12/06/18	MW-1806 14 - 15 12/06/18	MW-1807 9 - 11 12/06/18	MW-1807 16 - 17 12/06/18	MW-1809 9 - 11 12/06/18	MW-1809 14 - 15 12/06/18	MW-1810 7 - 9 10/08/18	MW-1810 11.5 - 12 10/08/18	MW-1810 20.5 - 21 10/08/18
2,4-Dinitrophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	0.33	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-chlorophenyl-phenylether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	0.33	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	mg/kg	1.0 J	0.14 J	3.1	0.42	0.93 U	0.039 J	0.037 J	0.21 U	0.21 U	0.18 U	0.21 U
Acenaphthylene	100	mg/kg	1.7 J	0.21 U	2.2	0.27	0.47 J	0.21 U	0.18 U	0.21 U	0.21 U	0.035 J	0.21 U
Anthracene	100	mg/kg	1.5 J	0.11 J	2.9	0.21 U	0.93 U	0.056 J	0.18 U	0.21 U	0.21 U	0.18 U	0.21 U
Benzo(a)anthracene	1	mg/kg	6.7	0.077 J	1.2	0.21 U	0.93 U	0.040 J	0.027 J	0.21 U	0.21 U	0.077 J	0.21 U
Benzo(a)pyrene	1	mg/kg	6.5	0.060 J	1.1	0.21 U	0.80 J	0.034 J	0.18 U	0.21 U	0.21 U	0.055 J	0.21 U
Benzo(b)fluoranthene	1	mg/kg	6.1 JK	0.21 U	1.1 JK	0.21 U	0.48 J	0.21 U	0.18 U	0.21 U	0.21 U	0.055 J	0.21 U
Benzo(g,h,i)perylene	100	mg/kg	4.9	0.037 J	0.59 J	0.21 U	1.8	0.21 U	0.18 U	0.21 U	0.21 U	0.034 J	0.21 U
Benzo(k)fluoranthene	0.8	mg/kg	1.9 UJK	0.21 U	0.99 UJK	0.21 U	0.18 J	0.21 U	0.18 U	0.21 U	0.21 U	0.025 J	0.21 U
Benzoic acid	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloro-1-methylethyl) ether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	mg/kg	6.2	0.11 J	1.1	0.21 U	0.28 J	0.052 J	0.18 U	0.21 U	0.21 U	0.076 J	0.21 U
Dibenzo(a,h)anthracene	0.33	mg/kg	1.9 U	0.21 U	0.99 U	0.21 U	0.93 U	0.21 U	0.18 U	0.21 U	0.21 U	0.18 U	0.21 U
Dibenzofuran	7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	100	mg/kg	11	0.15 J	2.6	0.21 U	0.17 J	0.084 J	0.056 J	0.21 U	0.21 U	0.10 J	0.21 U
Fluorene	30	mg/kg	1.4 J	0.10 J	2.3	0.21 U	0.93 U	0.040 J	0.035 J	0.21 U	0.21 U	0.18 U	0.21 U
Hexachlorobenzene	0.33	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	2.6	0.21 U	0.44 J	0.21 U	0.71 J	0.21 U	0.18 U	0.21 U	0.21 U	0.027 J	0.21 U
Isophorone	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	12	mg/kg	1.9 U	15 D	7.9	26 D	0.93 U	0.51	0.041 J	0.21 U	0.21 U	0.18 U	0.85
Nitrobenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.8	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	100	mg/kg	5.0	0.40	5.4	0.21 U	0.33 J	0.20 J	0.17 J	0.21 U	0.21 U	0.077 J	0.21 U
Phenol	0.33	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	100	mg/kg	16	0.24	3.4	0.21 U	0.35 J	0.13 J	0.080 J	0.21 U	0.21 U	0.15 J	0.21 U
Pyridine	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cresols	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	mg/kg	71 J	16 J	35 J	27	5.6 J	1.2 J	0.45 J	ND	ND	0.71 J	0.85

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSEDEC Unrestricted Use SCOs	Units	MW-1805 12.5 - 13 12/05/18	MW-1805 16 - 17 12/05/18	MW-1806 11 - 13 12/06/18	MW-1806 14 - 15 12/06/18	MW-1807 9 - 11 12/06/18	MW-1807 16 - 17 12/06/18	MW-1809 9 - 11 12/06/18	MW-1809 14 - 15 12/06/18	MW-1810 7 - 9 10/08/18	MW-1810 11.5 - 12 10/08/18	MW-1810 20.5 - 21 10/08/18
Inorganics													
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide, total	27	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Notes:

1. Results are presented in units of milligrams per kilogram (mg/kg).
2. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
3. K – Indicates Benzo(b&k)fluoranthene are unresolved due to matrix. Result is reported as Benzo(b)fluoranthene.
4. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
5. UB - Indicates the constituent was not detected at a concentration less than the PQL due to associated blank contamination.
6. BGS - Below ground surface.
7. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
8. Gray Shading indicates the result exceeds NYSDEC Part 375 Soil Cleanup Objectives (SCO) for Unrestricted use (Unrestricted use SCO).
9. - - Indicates a standard or guidance value does not exist for the respective analyte.

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW01 09/04/07	MW01 01/03/08	MW01 06/15/11	MW01 03/21/12	MW01D 11/15/05	MW01S 11/15/05	MW02 09/04/07	MW02 01/03/08	MW02 02/17/10	MW02 08/03/10	MW02 06/13/11	MW02 03/19/12	MW02 11/12/12	MW02D 11/16/05	MW02S 11/16/05	MW03 09/04/07	MW03 01/03/08
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.50 J	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Chloroform	7	ug/L	4.1 J	4.4 J	1.0 J	5.0 U	NA	NA	5.0 U	1.1 J	5.0 U	2.8 J	2.5 J	5.0 U	1.3 J	NA	NA	5.0 U	1.7 J
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	5.0 U	1.4 J	17	230 JD	NA	NA	5.0 U	1.8 J	5.0 U	5.0 U	3.1 J	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 UJ	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	2.6 J	4.1 J	230 D	1600 JD	NA	NA	5.8	30	24	19	23 J	23 J	20 J	NA	NA	10	10
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	4.9 J	76	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	1.2 J	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW01 09/04/07	MW01 01/03/08	MW01 06/15/11	MW01 03/21/12	MW01D 11/15/05	MW01S 11/15/05	MW02 09/04/07	MW02 01/03/08	MW02 02/17/10	MW02 08/03/10	MW02 06/13/11	MW02 03/19/12	MW02 11/12/12	MW02D 11/16/05	MW02S 11/16/05	MW03 09/04/07	MW03 01/03/08
Trichloroethene	5	ug/L	5.0 U	5.0 U	65	1400 D	NA	NA	2.7 J	6.9	4.9 J	4.3 J	6.0	4.7 J	2.5 J	NA	NA	5.0 U	1.8 J
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	1.6 J	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	0.60 J	2.2 J	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	15 U	15 U	NA	NA	NA	NA	NA	NA	NA	15 U	15 U	NA	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50 J	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	10 UJ	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	0.90 J	10 U	10 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
3-Nitroaniline	5	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	1.0 J	10 U	10 U
Acenaphthylene	--	ug/L	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	2.0 J	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	10 UJ	10 U	NA	NA	9.0 U	9.0 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Benzo(a)pyrene	0	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	10 UJ	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U
Chrysene	0.002	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	10 UJ	10 U	NA	NA	9.0 U	9.0 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U
Fluorene	50	ug/L	10 UJ	10 U	NA	NA	9.0 U	9.0 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
Phenanthrene	50	ug/L	10 UJ	10 U	NA	NA	9.0 U	9.0 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	10 U	10 U	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U
Total PAHs	--	ug/L	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	3.9 J	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	98.0	25700	NA	NA	8690	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	498	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	5.8	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0	7.2	2.1 J	5.0 U	1.5 J	2.0 J	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	5.0 U	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	1.3 J	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.6
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	300 D	1100	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	2.3 J	120	5.0 U	3.2 J	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	5.0 U	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	11	2.8 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	60	70	7.6	3.4 J	6.4	5.8	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	1.0 J	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	10	1.9 J	5.0 U	5.0 U	0.65 J	5.0 U	5.0 U	5.0 U
m,p-Xylene	5	ug/L	10 U	1000 U	NA	10 U	10 U	10 U	10 U	10 U	NA	18	4.8 J	1.1 J	1.1 J	1.0 J	10 U	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	16	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	22	5.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	4.0 J	500 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	89 J	28	7.8	9.9 J	13	5.0 U	5.0 U	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	3200 D	4800 J	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	2.5 J	36	37	6.4
Toluene	5	ug/L	5.0 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	13	14	3.1 J	5.0 U	1.2 J	1.1 J	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	210 D	540	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	8.2	1.8 J	1.0 J	1.7 J	16	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	MW03 06/15/11	MW03 03/21/12	MW03D 11/14/05	MW03D 09/05/07	MW03D 01/02/08	MW03D 02/18/10	MW03D 08/04/10	MW03D 06/15/11	MW03S 11/14/05	MW03S 09/05/07	MW03S 01/02/08	MW03S 02/18/10	MW03S 08/04/10	MW03S 06/15/11	MW04 09/04/07	MW04 01/03/08	MW04 06/15/11
Trichloroethene	5	ug/L	2200 D	3200	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	0.71 J	240 D	11	9.3	5.0 U
Trichlorofluoromethane	5	ug/L	2.0 J	500 U	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	1.8 J
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	88	220 J	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	6.0	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	NA	NA	15 U	NA	NA	NA	NA	NA	97	NA	NA	NA	NA	NA	NA	NA	NA
Total BTEX	--	ug/L	4.0 J	ND	ND	ND	ND	ND	ND	ND	180	200 J	46 J	12 J	20 J	23 J	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	25 J	4.6 J	NA	NA	NA	10 UJ	10 U	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	100	7.9 J	4.5 J	NA	NA	NA	10 U	10 U	NA
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	10 UJ	10 U	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	63	60	33	NA	NA	NA	10 U	10 U	NA
Acenaphthylene	--	ug/L	NA	NA	9.0 U	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	NA	NA	9.0 U	10 UJ	10 U	NA	NA	NA	10	14 J	5.6 J	NA	NA	NA	10 UJ	10 U	NA
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	1.0 J	1.4 J	10 U	NA	NA	NA	10 U	10 U	NA
Benzo(a)pyrene	0	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	0.70 J	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	0.50 J	1.1 J	10 U	NA	NA	NA	10 U	10 U	NA
Benzo(g,h,i)perylene	--	ug/L	NA	NA	9.0 U	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	5.7 J	1.9 J	NA	NA	NA	10 UJ	10 U	NA
Chrysene	0.002	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	0.90 J	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	9.0 U	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	NA	NA	9.0 U	10 UJ	10 U	NA	NA	NA	6.0 J	8.8 J	4.4 J	NA	NA	NA	10 UJ	10 U	NA
Fluorene	50	ug/L	NA	NA	9.0 U	10 UJ	10 U	NA	NA	NA	25	30 J	9.6 J	NA	NA	NA	10 UJ	10 U	NA
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	31	79	32	NA	NA	NA	10 U	10 U	NA
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA
Phenanthrene	50	ug/L	NA	NA	9.0 U	10 UJ	10 U	NA	NA	NA	47	47 J	21	NA	NA	NA	10 UJ	10 U	NA
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	NA	NA	9.0 U	10 U	10 U	NA	NA	NA	7.0 J	10 J	5.8 J	NA	NA	NA	10 U	10 U	NA
Total PAHs	--	ug/L	NA	NA	ND	ND	ND	NA	NA	NA	300 J	260 J	120 J	NA	NA	NA	ND	ND	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW04 03/21/12	MW04S 11/14/05	MW04S 12/20/18	MW04S 08/24/22	MW05 09/04/07	MW05 01/03/08	MW05S 11/16/05	MW06 09/04/07	MW06 01/02/08	MW06 02/18/10	MW06 08/03/10	MW06 06/15/11	MW06 03/20/12	MW06 03/21/12	MW06 11/13/12	MW-6 06/15/11	MW06D 11/16/05
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	59	22	38	5.0 U	5.0 U	47	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Bromoform	50	ug/L	NA	NA	2.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Chloroform	7	ug/L	11	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	2.4 J	0.83 J	5.0 U	5.0 U	1.3 J	0.72 J	NA
Chloromethane	-	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.7 J	5.0 U	2.3 J	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	5.0 U	NA	2.3	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Dibromochloromethane	50	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	110 D	92	130	5.0 U	5.0 U	110 DJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	NA	8.6	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
m,p-Xylene	5	ug/L	10 U	NA	NA	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Methyl acetate	-	ug/L	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	NA	5.1	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Methylene Chloride	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	5.0 U	NA	NA	NA	5.0 UJ	5.0 U	NA	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Styrene	5	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	3.2 J	3000 JD	5.0 UJ	1100 D	NA
Toluene	5	ug/L	5.0 U	19	5.4	5.4	5.0 U	5.0 U	27	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.40 J
trans-1,2-Dichloroethene	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.6 J	5.0 U	2.3 J	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
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NYSEG - Dansville Former MGP Site - Dansville, New York

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Trichloroethene	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	59	5.0 U	30	NA
Trichlorofluoromethane	5	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	8.6	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	NA	2.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Xylenes (total)	5	ug/L	NA	100	29	54	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	15 U
Total BTEX	--	ug/L	ND	290	150	230	ND	ND	300 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40 J
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	10 UJ	10 U	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Chlorophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	NA	6.0 DJ	NA	36 J	10 U	10 U	36	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	10 UJ	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	NA	190 D	82	190	10 U	10 U	120	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Acenaphthylene	--	ug/L	NA	9.0	4.3 J	7.4 J	NA	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	NA	16	5.0 J	11 J	10 UJ	10 U	8.0 J	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	NA	2.0 J	50 U	52 U	10 U	10 U	3.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzo(a)pyrene	0	ug/L	NA	2.0 J	50 U	52 U	10 U	10 U	2.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzo(b)fluoranthene	0.002	ug/L	NA	2.0 J	50 U	52 U	10 U	10 U	2.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzo(g,h,i)perylene	--	ug/L	NA	0.70 J	50 U	52 U	NA	NA	1.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzo(k)fluoranthene	0.002	ug/L	NA	2.0 J	50 U	52 U	10 U	10 U	2.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	10 UJ	10 U	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	NA	2.0 J	50 U	52 U	10 U	10 U	2.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Dibenzo(a,h)anthracene	--	ug/L	NA	9.0 U	50 U	52 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	NA	10	50 U	52 U	10 UJ	10 U	6.0 J	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	1.0 J
Fluorene	50	ug/L	NA	61	25 J	62	10 UJ	10 U	32	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	0.50 J	50 U	52 U	10 U	10 U	0.70 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	NA	340 D	50 U	340	10 U	10 U	840 D	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	10 U	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	NA	84	29 J	73	10 UJ	10 U	29	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	NA	13	50 U	5.0 J	10 U	10 U	8.0 J	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Total PAHs	--	ug/L	NA	740 J	150 J	720 J	ND	ND	1100 J	ND	ND	NA	NA	NA	NA	NA	NA	NA	1.0 J
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	2700	NA	NA	NA	NA	NA	NA	135	55.0	NA	NA	NA	10900 J	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW04 03/21/12	MW04S 11/14/05	MW04S 12/20/18	MW04S 08/24/22	MW05 09/04/07	MW05 01/03/08	MW05S 11/16/05	MW06 09/04/07	MW06 01/02/08	MW06 02/18/10	MW06 08/03/10	MW06 06/15/11	MW06 03/20/12	MW06 03/21/12	MW06 11/13/12	MW-6 06/15/11	MW06D 11/16/05
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	62.0	471	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW06S 11/14/05	MW07 02/16/10	MW07 08/02/10	MW07 06/14/11	MW07 03/20/12	MW07 11/13/12	MW07D 11/15/05	MW07S 11/15/05	MW08 02/16/10	MW08 08/03/10	MW08 06/14/11	MW08 03/20/12	MW08 11/13/12	MW09 02/16/10	MW09 08/03/10	MW09 06/14/11	MW09 06/15/11
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	ug/L	430 D	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.60 J	37	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.79 J
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Chloroform	7	ug/L	NA	2.1 J	1.3 J	0.70 J	2.5 J	0.93 J	NA	NA	5.0 U	5.0 U	2.6 J	5.0 U	5.0 U	0.73 J	0.86 J	1.4 J	6.7
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J	2.6 J	0.85 J	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	56	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.60 J	1400 D	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5	ug/L	NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	NA	9.5	6.4	3.8 J	9.9 J	8.9 J	NA	NA	5.0 UJ	5.0 U	4.7 J	5.0 U	5.0 UJ	8.4	11	7.6	1.8 J
Toluene	5	ug/L	14	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	140 D	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW06S 11/14/05	MW07 02/16/10	MW07 08/02/10	MW07 06/14/11	MW07 03/20/12	MW07 11/13/12	MW07D 11/15/05	MW07S 11/15/05	MW08 02/16/10	MW08 08/03/10	MW08 06/14/11	MW08 03/20/12	MW08 11/13/12	MW09 02/16/10	MW09 08/03/10	MW09 06/14/11	MW09 06/15/11
Trichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.3 J	4.1 J	2.4 J	5.0 U
Trichlorofluoromethane	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	86	NA	NA	NA	NA	NA	15 U	1100 D	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total BTEX	--	ug/L	590	ND	ND	ND	ND	ND	1.2 J	2700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	25	NA	NA	NA	NA	NA	9.0 U	1600 D	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	12	NA	NA	NA	NA	NA	9.0 U	780 DJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	--	ug/L	2.0 J	NA	NA	NA	NA	NA	9.0 U	53	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	1.0 J	NA	NA	NA	NA	NA	9.0 U	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	4.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	3.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	--	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	1.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	0.60 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW06S 11/14/05	MW07 02/16/10	MW07 08/02/10	MW07 06/14/11	MW07 03/20/12	MW07 11/13/12	MW07D 11/15/05	MW07S 11/15/05	MW08 02/16/10	MW08 08/03/10	MW08 06/14/11	MW08 03/20/12	MW08 11/13/12	MW09 02/16/10	MW09 08/03/10	MW09 06/14/11	MW09 06/15/11
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	3.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	--	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	50	ug/L	3.0 J	NA	NA	NA	NA	NA	9.0 U	95	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	0.80 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	98	NA	NA	NA	NA	NA	9.0 U	18000 D	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	120	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	10 U	NA	NA	NA	NA	NA	9.0 U	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	ug/L	140 J	NA	NA	NA	NA	NA	ND	21000 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67.0	113	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW06S 11/14/05	MW07 02/16/10	MW07 08/02/10	MW07 06/14/11	MW07 03/20/12	MW07 11/13/12	MW07D 11/15/05	MW07S 11/15/05	MW08 02/16/10	MW08 08/03/10	MW08 06/14/11	MW08 03/20/12	MW08 11/13/12	MW09 02/16/10	MW09 08/03/10	MW09 06/14/11	MW09 06/15/11
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	63.0	52.0	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW09 03/19/12	MW09 11/13/12	MW10 02/16/10	MW10 08/03/10	MW10 06/14/11	MW10 03/19/12	MW10 11/13/12	MW11 02/16/10	MW11 08/03/10	MW11 06/13/11	MW11 03/19/12	MW11 11/12/12	MW12 02/16/10	MW12 08/02/10	MW12 06/13/11	MW12 03/19/12	MW12 11/12/12
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	1.4 J	0.69 J	1.7 J	2.1 J	2.2 J	2.2 J	1.3 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	1.6 J	0.53 J	0.86 J	1.4 J	2.3 J	1.3 J	0.44 J	5.0 U	5.0 U	5.0 U	5.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	12 J	4.8 J	17	11	17	21 J	12 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.83 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW09 03/19/12	MW09 11/13/12	MW10 02/16/10	MW10 08/03/10	MW10 06/14/11	MW10 03/19/12	MW10 11/13/12	MW11 02/16/10	MW11 08/03/10	MW11 06/13/11	MW11 03/19/12	MW11 11/12/12	MW12 02/16/10	MW12 08/02/10	MW12 06/13/11	MW12 03/19/12	MW12 11/12/12
Trichloroethene	5	ug/L	3.8 J	0.93 J	4.0 J	4.0 J	4.4 J	5.4	2.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW09 03/19/12	MW09 11/13/12	MW10 02/16/10	MW10 08/03/10	MW10 06/14/11	MW10 03/19/12	MW10 11/13/12	MW11 02/16/10	MW11 08/03/10	MW11 06/13/11	MW11 03/19/12	MW11 11/12/12	MW12 02/16/10	MW12 08/02/10	MW12 06/13/11	MW12 03/19/12	MW12 11/12/12
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	10 U	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	--	ug/L	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	15700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	34	40
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 UJ	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Chloroform	7	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.83 J	5.0 U	0.42 J	6.4	4.4 J	3.4 J	4.9 J	4.6 J	5.0 U	NA
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Cyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.92 J	7.7	NA
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	290 J	190
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	22	NA
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.0 J	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 J	17	NA
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
o-Xylene	5	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Tetrachloroethene	5	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	1.6 J	0.90 J	1.7 J	5.0 U	1.5 J	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.1 J	12	5.2
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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA

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Trichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Xylenes (total)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	69
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1 J	420 J	300
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	210
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	4.0 J
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	110	110
Acenaphthylene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1 J	7.9 J
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	13 J	14 J
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	25 U	26 U
Benzo(a)pyrene	0	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	25 U	26 U
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	25 U	26 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	26 U
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	25 U	26 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW13 02/16/10	MW13 08/03/10	MW13 06/13/11	MW13 03/19/12	MW13 11/12/12	MW14 02/16/10	MW14 08/02/10	MW14 06/13/11	MW14 03/19/12	MW14 11/12/12	MW15 02/16/10	MW15 08/02/10	MW15 06/13/11	MW15 03/19/12	MW15 11/12/12	MW-1801 12/19/18	MW-1801 08/24/22
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	25 U	26 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	26 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	4.6 J	5.0 J
Fluorene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	43	40
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	25 U	26 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	57	170
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 UJ	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	58	62
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	6.5 J	6.9 J
Total PAHs	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	300 J	420 J
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	53.0	646	NA	NA	188 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5100	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW13 02/16/10	MW13 08/03/10	MW13 06/13/11	MW13 03/19/12	MW13 11/12/12	MW14 02/16/10	MW14 08/02/10	MW14 06/13/11	MW14 03/19/12	MW14 11/12/12	MW15 02/16/10	MW15 08/02/10	MW15 06/13/11	MW15 03/19/12	MW15 11/12/12	MW-1801 12/19/18	MW-1801 08/24/22
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	76.0	102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	980	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW-1802 12/19/18	MW-1802 08/26/22	MW-1803 12/19/18	MW-1803 08/23/22	MW-1804 12/19/18	MW-1804 08/23/22	MW-1805 12/20/18	MW-1805 08/25/22	MW-1806 08/26/22	MW-1807 12/20/18	MW-1807 08/25/22	MW-1808 12/19/18	MW-1808 08/24/22	MW-1809 12/20/18	MW-1809 08/25/22	MW-1810 12/21/18	MW-1810 08/25/22
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2,2-Tetrachloroethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,1-Dichloroethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,1-Dichloroethene	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane	-	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichloroethane	0.6	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,3-Dichlorobenzene	3	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,4-Dichlorobenzene	3	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
2-Butanone	50	ug/L	100 U	NA	100 U	NA	10 U	NA	50 U	NA	NA	10 U	NA	50 U	NA	10 U	NA	10 U	NA
2-Hexanone	50	ug/L	50 U	NA	50 U	NA	5.0 U	NA	25 U	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone	-	ug/L	50 U	NA	50 U	NA	5.0 U	NA	25 U	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50	ug/L	100 U	NA	100 U	NA	10 U	NA	50 U	NA	NA	10 U	NA	50 U	NA	10 U	NA	10 U	NA
Benzene	1	ug/L	10 U	10 U	54	12	1.0 U	1.0 U	55	49	10 U	14	11	110	21	1.0 U	1.0 U	0.89 J	1.0 U
Bromodichloromethane	50	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Bromoform	50	ug/L	10 UJ	NA	10 UJ	NA	1.0 UJ	NA	5.0 UJ	NA	NA	1.0 UJ	NA	5.0 UJ	NA	1.0 UJ	NA	1.0 U	NA
Bromomethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon Disulfide	-	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon Tetrachloride	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Chlorobenzene	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Chloroethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Chloroform	7	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane	-	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
cis-1,2-Dichloroethene	5	ug/L	10 U	NA	86	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
cis-1,3-Dichloropropene	0.4	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Cyclohexane	-	ug/L	7.8 J	NA	10 U	NA	1.0 U	NA	6.0	NA	NA	0.72 J	NA	15	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Ethylbenzene	5	ug/L	380	190	350	150	1.0 U	1.0 U	180	150	21	7.0	2.6	170	24	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	20	NA	57	NA	1.0 U	NA	15	NA	NA	1.6	NA	7.7	NA	1.0 U	NA	1.0 U	NA
m,p-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	-	ug/L	25 U	NA	25 U	NA	2.5 U	NA	13 U	NA	NA	2.5 U	NA	13 U	NA	2.5 U	NA	2.5 U	NA
Methyl tert-butyl ether	10	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Methylcyclohexane	-	ug/L	29	NA	4.1 J	NA	1.0 U	NA	14	NA	NA	2.2	NA	10	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
o-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Tetrachloroethene	5	ug/L	10 U	NA	10 U	NA	10	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	0.73 J	NA	2.5	NA
Toluene	5	ug/L	8.6 J	6.3 J	11	10 U	1.0 U	1.0 U	8.4	6.6	10 U	0.87 J	0.90 J	4.4 J	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	ug/L	10 U	NA	10	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
trans-1,3-Dichloropropene	0.4	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	MW-1802 12/19/18	MW-1802 08/26/22	MW-1803 12/19/18	MW-1803 08/23/22	MW-1804 12/19/18	MW-1804 08/23/22	MW-1805 12/20/18	MW-1805 08/25/22	MW-1806 08/26/22	MW-1807 12/20/18	MW-1807 08/25/22	MW-1808 12/19/18	MW-1808 08/24/22	MW-1809 12/20/18	MW-1809 08/25/22	MW-1810 12/21/18	MW-1810 08/25/22
Trichloroethene	5	ug/L	10 U	NA	10 U	NA	2.9	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	0.50 J	NA
Trichlorofluoromethane	5	ug/L	10 U	NA	10 U	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	10 U	NA	12	NA	1.0 U	NA	5.0 U	NA	NA	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
Xylenes (total)	5	ug/L	240	110	250	100	2.0 U	2.0 U	57	66	26	5.0	3.9	170	13	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	ug/L	630 J	310 J	670	260	ND	ND	300	270	47	27 J	18 J	450 J	58	ND	ND	0.89 J	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	80 J	NA	540	NA	5.4 U	NA	270	50 U	NA	54 U	NA	130	NA	5.4 U	NA	5.2 U
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	NA	14 J	NA	50 U	NA	5.4 U	NA	19 J	50 U	NA	54 U	NA	25 U	NA	5.4 U	NA	5.2 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	260 D	120	180 D	240	5.0 U	5.4 U	170	170	26 J	76	31 J	33	60	5.0 U	5.4 U	5.0 U	5.2 U
Acenaphthylene	--	ug/L	18	100 U	16	45 J	5.0 U	5.4 U	9.1 J	8.0 J	50 U	4.8 J	54 U	5.0 J	7.5 J	5.0 U	5.4 U	0.55 J	5.2 U
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	13	12 J	14	15 J	5.0 U	5.4 U	15 J	14 J	50 U	14 J	54 U	3.4 J	3.5 J	5.0 U	5.4 U	5.0 U	5.2 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	0.82 J	100 U	0.53 J	50 U	5.0 U	5.4 U	25 U	25 U	7.5 J	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Benzo(a)pyrene	0	ug/L	0.67 J	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	6.1 J	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Benzo(b)fluoranthene	0.002	ug/L	0.56 J	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	4.6 J	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Benzo(g,h,i)perylene	--	ug/L	5.0 U	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	50 U	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Benzo(k)fluoranthene	0.002	ug/L	5.0 U	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	50 U	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
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Location ID: Date Collected:	NYSDEC GWQS	Units	MW-1802 12/19/18	MW-1802 08/26/22	MW-1803 12/19/18	MW-1803 08/23/22	MW-1804 12/19/18	MW-1804 08/23/22	MW-1805 12/20/18	MW-1805 08/25/22	MW-1806 08/26/22	MW-1807 12/20/18	MW-1807 08/25/22	MW-1808 12/19/18	MW-1808 08/24/22	MW-1809 12/20/18	MW-1809 08/25/22	MW-1810 12/21/18	MW-1810 08/25/22
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	1.1 J	100 U	0.55 J	50 U	5.0 U	5.4 U	25 U	25 U	5.1 J	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Dibenzo(a,h)anthracene	--	ug/L	5.0 U	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	50 U	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	8.7	8.9 J	5.5	4.6 J	5.0 U	5.4 U	4.7 J	3.7 J	15 J	8.4 J	5.9 J	25 U	25 U	0.56 J	5.4 U	5.0 U	5.2 U
Fluorene	50	ug/L	64	34 J	48	74	5.0 U	5.4 U	61	58	50 U	42 J	16 J	13 J	21 J	5.0 U	5.4 U	5.0 U	5.2 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.0 U	100 U	5.0 U	50 U	5.0 U	5.4 U	25 U	25 U	50 U	50 U	54 U	25 U	25 U	5.0 U	5.4 U	5.0 U	5.2 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	770 D	680	5.0 U	150	5.0 U	5.4 U	260	180	50 U	50 U	54 U	170	14 J	5.0 U	5.4 U	5.0 U	5.2 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	88 DJ	36 J	63	67	5.0 U	5.4 U	74	68	50 U	40 J	54 U	12 J	28	1.1 J	5.4 U	5.0 U	5.2 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	10	12 J	5.4	5.4 J	5.0 U	5.4 U	5.5 J	4.5 J	16 J	11 J	7.0 J	1.8 J	2.2 J	0.82 J	5.4 U	5.0 U	5.2 U
Total PAHs	--	ug/L	1200 J	920 J	330 J	600 J	ND	ND	600 J	530 J	80 J	200 J	60 J	240 J	140 J	2.5 J	ND	0.55 J	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	370	NA	210	NA	120	NA	4400	NA	NA	2600	NA	650	NA	26.0 J	NA	64.0	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	730	NA	750	NA	27.0	NA	1300	NA	NA	1300	NA	210	NA	4.80	NA	420	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	MW-1802 12/19/18	MW-1802 08/26/22	MW-1803 12/19/18	MW-1803 08/23/22	MW-1804 12/19/18	MW-1804 08/23/22	MW-1805 12/20/18	MW-1805 08/25/22	MW-1806 08/26/22	MW-1807 12/20/18	MW-1807 08/25/22	MW-1808 12/19/18	MW-1808 08/24/22	MW-1809 12/20/18	MW-1809 08/25/22	MW-1810 12/21/18	MW-1810 08/25/22
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	0.0500 U	NA	0.0500 U	NA	23.0 J	NA	0.0500 U	NA	NA	0.0500 U	NA	0.0500 U	NA	0.0500 U	NA	0.0500 U	NA
Manganese	300	ug/L	660	NA	640	NA	12.0	NA	1300	NA	NA	1100	NA	0.00300 U	NA	2.80 J	NA	70.0	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ01 11/17/05	PZ01 09/05/07	PZ01 01/02/08	PZ01 02/18/10	PZ01 08/04/10	PZ01 06/15/11	PZ01 11/13/12	PZ02 11/17/05	PZ02 09/05/07	PZ02 01/02/08	PZ02 02/18/10	PZ02 08/04/10	PZ02 06/15/11	PZ02 03/21/12	PZ02 11/13/12	PZ03 06/24/04	PZ03 11/10/05
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,1-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	39	170 D	11	22	5.0 U	5.0 U	58	81	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Chloroethane	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	NA
Chloroform	7	ug/L	NA	5.0 U	5.0 U	4.5 J	4.8 J	1.2 J	7.6	NA	5.0 U	5.0 U	5.0 U	9.6	5.0 U	5.0 U	5.0 U	5.0 U	NA
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
cis-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	16	1.7 J	11	220 JD	0.92 J	8.1	2.6 J	NA	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Cyclohexane	-	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.7	2.2 J	1.6 J	5.0 U	5.0 U	5.0 U	2.2 J	NA	NA
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	19	91	13	13	5.0 U	5.0 U	34	22	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	11	2.7 J	2.7 J	5.0 U	5.0 U	2.4 J	2.6 J	NA	NA
m,p-Xylene	5	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	NA	66	9.1 J	8.2 J	10 U	10 U	19	17	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	35	13	5.4	13	5.0 U	5.4	6.8 J	NA	NA
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
o-Xylene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	63	15	31	5.0 U	5.0 U	30	24	NA	NA
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA
Tetrachloroethene	5	ug/L	NA	300 JD	190 D	420 D	320 D	120	59 J	NA	5.0 U	1.4 J	12	930 D	6.0	3.1 J	2.8 J	5.0 U	NA
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	16	100 D	5.1	6.0	5.0 U	5.0 U	17	24	2.0 J	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	3.1 J	75	5.0 U	1.1 J	0.47 J	NA	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ01 11/17/05	PZ01 09/05/07	PZ01 01/02/08	PZ01 02/18/10	PZ01 08/04/10	PZ01 06/15/11	PZ01 11/13/12	PZ02 11/17/05	PZ02 09/05/07	PZ02 01/02/08	PZ02 02/18/10	PZ02 08/04/10	PZ02 06/15/11	PZ02 03/21/12	PZ02 11/13/12	PZ03 06/24/04	PZ03 11/10/05
Trichloroethene	5	ug/L	NA	16	3.4 J	12	7.5	3.1 J	2.2 J	NA	5.0 U	4.6 J	8.8	1100 D	2.8 J	6.9	1.5 J	5.0 U	NA
Trichlorofluoromethane	5	ug/L	NA	5.0 U	5.0 UJ	5.0 U	5.0 UJ	4.3 J	5.0 U	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA
Vinyl Chloride	2	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	18	5.0 U	2.0 J	1.4 J	5.0 U	NA
Xylenes (total)	5	ug/L	15 U	NA	NA	NA	NA	NA	NA	34	NA	NA	NA	NA	NA	NA	NA	15 U	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	110	490	53 J	80 J	ND	ND	160	170	2.0 J	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	10 UJ	10 U	10 U	10 U	NA	NA	NA	25 J	8.6 J	NA	NA	NA	NA	NA	9.0 UJ	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2,4-Dimethylphenol	50	ug/L	NA	10 U	10 U	10 U	10 U	NA	NA	NA	78	10 U	NA	NA	NA	NA	NA	9.0 U	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA
2,4-Dinitrotoluene	5	ug/L	NA	10 U	10 U	10 U	10 U	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2-Methylnaphthalene	--	ug/L	10 U	10 U	2.2 J	10 U	10 U	NA	NA	3.0 J	64	7.0 J	NA	NA	NA	NA	NA	9.0 U	10 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	10 U	10 U	10 U	10 U	NA	NA	NA	14	10 U	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	10 U	10 U	4.8 J	10 U	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	47 U	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
4-Nitroaniline	5	ug/L	NA	10 UJ	10 U	3.0 J	10 U	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	NA	47 U	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA
Acenaphthene	20	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	50	66	52	NA	NA	NA	NA	NA	9.0 U	10 U
Acenaphthylene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	3.0 J	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 UJ	NA
Anthracene	50	ug/L	10 U	10 UJ	10 U	10 U	10 U	NA	NA	7.0 J	16 J	24	NA	NA	NA	NA	NA	9.0 U	10 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 UJ	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 UJ	NA
Benzo(a)anthracene	0.002	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	3.9 J	17	NA	NA	NA	NA	NA	9.0 U	10 U
Benzo(a)pyrene	0	ug/L	10 U	10 U	3.7 J	10 U	10 U	NA	NA	10 U	2.5 J	12	NA	NA	NA	NA	NA	9.0 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	10 U	10 U	2.6 J	10 U	10 U	NA	NA	10 U	2.4 J	11 J	NA	NA	NA	NA	NA	9.0 U	10 U
Benzo(g,h,i)perylene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U
Benzo(k)fluoranthene	0.002	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	3.4 J	NA	NA	NA	NA	NA	9.0 U	10 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	10 U	10 U	10 U	10 U	NA	NA	NA	10 U	13	NA	NA	NA	NA	NA	9.0 U	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 UJ	NA
Carbazole	--	ug/L	NA	10 UJ	10 U	10 U	10 U	NA	NA	NA	10 J	10 U	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	10 U	10 U	1.4 J	10 U	10 U	NA	NA	10 U	3.4 J	14	NA	NA	NA	NA	NA	9.0 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Fluoranthene	50	ug/L	10 U	10 UJ	10 U	10 U	10 U	NA	NA	3.0 J	12 J	29	NA	NA	NA	NA	NA	9.0 U	10 U
Fluorene	50	ug/L	10 U	10 UJ	10 U	10 U	10 U	NA	NA	21	39 J	28	NA	NA	NA	NA	NA	9.0 U	10 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42 U	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	10 U	2.7 J	10 U	10 U	NA	NA	10 U	10 U	4.0 J	NA	NA	NA	NA	NA	9.0 U	10 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Naphthalene	10	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	58 J	650 D	18	NA	NA	NA	NA	NA	9.0 U	10 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Pentachlorophenol	1	ug/L	NA	10 U	10 U	10 U	10 UJ	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	47 U	NA
Phenanthrene	50	ug/L	10 U	10 UJ	10 U	10 U	10 U	NA	NA	25	46 J	60	NA	NA	NA	NA	NA	9.0 U	10 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA
Pyrene	50	ug/L	10 UJ	10 U	1.9 J	10 U	10 U	NA	NA	4.0 J	13	44	NA	NA	NA	NA	NA	9.0 U	10 U
Total PAHs	--	ug/L	ND	ND	15 J	ND	ND	NA	NA	170 J	920 J	320 J	NA	NA	NA	NA	NA	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120 U	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	159000	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50.0 U	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA
Iron	300	ug/L	NA	NA	NA	159	20.0 U	NA	896 J	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.00 U	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32400	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.0 U	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.330 U	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80.0 U	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13500	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.0 U	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	203000	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA
Vanadium	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.0 U	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	76.0	21.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 UJ	NA	NA	5.0 U	NA	5.0 U
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	10 U
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	25 U
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	25 U
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	25 U
Acetone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	25 U
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.0	2.0 J	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	1.0 J	NA	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	R	NA	NA	NA	R	NA	R	NA	NA	R	NA	R
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 UJ	NA	NA	5.0 U	NA	5.0 U
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	NA	5.0 U	5.0 U	R	NA	5.0 U	NA	5.0 U	R	NA	R
Chloroform	7	ug/L	5.0 U	0.90 J	0.74 J	5.0 U	0.58 J	3.0 J	NA	5.0 U	1.2 J	5.0 U	NA	5.0 U	NA	5.0 U	10	NA	8.0
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	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	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	5.0 U	NA	NA	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Cyclohexane	-	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	5.0 U	NA	NA	NA
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	36	5.0	32	5.0 U	12	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	11	NA	NA	NA
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA	6.9 J	NA	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	12	NA	NA	NA
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
o-Xylene	5	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	5.5	NA	NA	NA
Styrene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U
Tetrachloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.0	1.0 J	2.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	5.0 U	NA	NA	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ03 02/17/10	PZ03 08/04/10	PZ03 06/14/11	PZ03 03/20/12	PZ03 11/12/12	PZ04 06/24/04	PZ04 11/10/05	PZ04 09/05/07	PZ04 01/03/08	PZ05 06/25/04	PZ05 11/09/05	PZ06 06/25/04	PZ06 11/09/05	PZ06 09/05/07	PZ07 06/25/04	PZ07 11/08/05	PZ08 06/25/04
Trichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ	NA	NA	NA	NA	5.0 U	NA	NA	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	25 U
Vinyl Chloride	2	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	NA	15 U	15 U	NA	NA	70	18	40	15 U	NA	15 U	15 U	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	26 J	74 J	ND	24 J	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	9.0 UJ	NA	10 UJ	10 U	13 J	NA	10 U	NA	6.9 J	9.0 UJ	NA	9.0 UJ
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	9.0 U	NA	10 U	NA	10 U	9.0 U	NA	9.0 U
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	47 U	NA	48 U	NA	NA	47 U	NA	47 U
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	9.0 U	NA	10 U	NA	10 U	9.0 U	NA	9.0 U
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	53	9.0	5.0 J	0.50 J	26	9.0 U	10 U	9.0 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	47 U	NA	48 U	NA	NA	47 U	NA	47 U
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	19 U	NA	19 U	NA	NA	19 U	NA	19 U
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U	47 U	NA	48 U	NA	10 U	47 U	NA	47 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	47 U	NA	48 U	NA	NA	47 U	NA	47 U
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	10 UJ	10 U	47 U	NA	48 U	NA	10 UJ	47 U	NA	47 U
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	47 U	NA	48 U	NA	NA	47 U	NA	47 U
Acenaphthene	20	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	46	7.0 J	17	1.0 J	23	9.0 U	10 U	9.0 U
Acenaphthylene	--	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	10	2.0 J	10 U	9.0 U	NA	9.0 U	10 U	9.0 U
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	9.0 UJ	NA	NA	NA	9.0 UJ	NA	10 U	NA	NA	9.0 UJ	NA	9.0 UJ
Anthracene	50	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U	9.0 U	9.0 U	10 U	0.80 J	4.3 J	9.0 U	10 U	9.0 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	9.0 UJ	NA	NA	NA	9.0 UJ	NA	10 U	NA	NA	9.0 UJ	NA	9.0 UJ
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	47 UJ	NA	NA	NA	47 UJ	NA	48 U	NA	NA	47 UJ	NA	47 UJ
Benzo(a)anthracene	0.002	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	0.70 J	10 U	0.50 J	10 U	9.0 U	10 U	9.0 U
Benzo(a)pyrene	0	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	0.60 J	10 U	9.0 U	10 U	9.0 U	10 U	9.0 U
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	0.60 J	10 U	9.0 U	10 U	9.0 U	10 U	9.0 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	9.0 U	0.60 J	10 U	9.0 U	NA	9.0 U	10 U	9.0 U
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	9.0 U	10 U	9.0 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	47 U	NA	48 U	NA	NA	47 U	NA	47 U
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	19 U	NA	19 U	NA	NA	19 U	NA	19 U
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	9.0 U	NA	10 U	NA	10 U	9.0 U	NA	9.0 U
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	9.0 UJ	NA	NA	NA	9.0 UJ	NA	10 U	NA	NA	9.0 UJ	NA	9.0 UJ
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	10 UJ	NA	NA	NA
Chrysene	0.002	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	0.80 J	10 U	0.60 J	10 U	9.0 U	10 U	9.0 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	9.0 U	9.0 U	10 U	9.0 U	NA	9.0 U	10 U	9.0 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	2.0 J	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Fluoranthene	50	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U	5.0 J	1.0 J	2.0 J	1.0 J	2.4 J	9.0 U	10 U	9.0 U
Fluorene	50	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U	26	3.0 J	10 U	0.70 J	10 J	9.0 U	10 U	9.0 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	42 U	NA	NA	NA	42 U	NA	43 U	NA	NA	42 U	NA	42 U
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	9.0 U	10 U	9.0 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Naphthalene	10	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	68	22	10 U	1.0 J	120 D	9.0 U	10 U	9.0 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U	47 U	NA	48 U	NA	10 U	47 U	NA	47 U
Phenanthrene	50	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 UJ	10 U	47	4.0 J	10 U	3.0 J	12 J	9.0 U	10 U	9.0 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	9.0 U	NA	9.0 U
Pyrene	50	ug/L	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	7.0 J	0.90 J	3.0 J	2.0 J	20 UD	9.0 U	10 U	9.0 U
Total PAHs	--	ug/L	NA	NA	NA	NA	NA	ND	ND	ND	ND	260 J	52 J	27 J	11 J	200 J	ND	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	400 U	NA	NA	NA	21600	NA	400 U	NA	NA	400 U	NA	2470
Antimony	3	ug/L	NA	NA	NA	NA	NA	120 U	NA	NA	NA	120 U	NA	120 U	NA	NA	120 U	NA	120 U
Arsenic	25	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	20.0 U	NA	20.0 U	NA	NA	20.0 U	NA	20.0 U
Barium	1,000	ug/L	NA	NA	NA	NA	NA	400 U	NA	NA	NA	400 U	NA	400 U	NA	NA	400 U	NA	400 U
Beryllium	3	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	10.0 U	NA	10.0 U	NA	NA	10.0 U	NA	10.0 U
Cadmium	5	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	10.0 U	NA	10.0 U	NA	NA	10.0 U	NA	10.0 U
Calcium	--	ug/L	NA	NA	NA	NA	NA	124000	NA	NA	NA	156000	NA	41200	NA	NA	109000	NA	106000
Chromium	50	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	29.8	NA	20.0 U	NA	NA	20.0 U	NA	20.0 U
Cobalt	--	ug/L	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA	NA	100 U	NA	100 U
Copper	200	ug/L	NA	NA	NA	NA	NA	50.0 U	NA	NA	NA	50.0 U	NA	50.0 U	NA	NA	50.0 U	NA	50.0 U
Cyanide	200	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	10.0 U	NA	10.0 U	NA	NA	10.0 U	NA	10.0 U
Iron	300	ug/L	NA	NA	NA	NA	NA	200 U	NA	NA	NA	33600	NA	1190	NA	NA	418	NA	3930
Lead	25	ug/L	NA	NA	NA	NA	NA	5.00 U	NA	NA	NA	20.8	NA	5.00 U	NA	NA	5.00 U	NA	5.00 U
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	27600	NA	NA	NA	41800	NA	10000 U	NA	NA	22300	NA	27100
Manganese	300	ug/L	NA	NA	NA	NA	NA	30.0 U	NA	NA	NA	1280	NA	171	NA	NA	30.0 U	NA	244
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	0.330 U	NA	NA	NA	0.330 U	NA	0.330 UJ	NA	NA	0.330 U	NA	0.330 U
Nickel	100	ug/L	NA	NA	NA	NA	NA	80.0 U	NA	NA	NA	80.0 U	NA	80.0 U	NA	NA	80.0 U	NA	80.0 U
Potassium	--	ug/L	NA	NA	NA	NA	NA	10000 U	NA	NA	NA	12300	NA	10000 U	NA	NA	10000 U	NA	10000 U

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ03 02/17/10	PZ03 08/04/10	PZ03 06/14/11	PZ03 03/20/12	PZ03 11/12/12	PZ04 06/24/04	PZ04 11/10/05	PZ04 09/05/07	PZ04 01/03/08	PZ05 06/25/04	PZ05 11/09/05	PZ06 06/25/04	PZ06 11/09/05	PZ06 09/05/07	PZ07 06/25/04	PZ07 11/08/05	PZ08 06/25/04
Selenium	10	ug/L	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	15.0 U	NA	15.0 U	NA	NA	15.0 U	NA	15.0 U
Silver	50	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	20.0 U	NA	20.0 U	NA	NA	20.0 U	NA	20.0 U
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	134000	NA	NA	NA	107000	NA	23700	NA	NA	93600	NA	90300
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	20.0 U	NA	20.0 U	NA	NA	20.0 U	NA	20.0 U
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA	NA	100 U	NA	100 U
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	40.0 U	NA	NA	NA	95.1	NA	104 J	NA	NA	40.0 U	NA	40.0 U
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ08 11/08/05	PZ09 06/25/04	PZ09 11/09/05	PZ09 09/05/07	PZ10 06/26/04	PZ10 11/08/05	PZ10 09/06/07	PZ10 01/03/08	PZ10 02/17/10	PZ10 08/03/10	PZ10 06/14/11	PZ10 03/20/12	PZ10 11/12/12	PZ11 06/26/04	PZ11 11/08/05	PZ11 09/06/07	PZ11 01/03/08
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
1,1-Dichloroethene	5	ug/L	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	5.0 UJ	NA	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	5.0 UJ	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	6.0 J	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
2-Hexanone	50	ug/L	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
Acetone	50	ug/L	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
Benzene	1	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U
Bromoform	50	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Bromomethane	5	ug/L	NA	R	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	5.0 UJ	NA	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	5.0 UJ	NA	NA	NA
Chlorobenzene	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Chloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U
Chloroform	7	ug/L	NA	2.0 J	NA	5.0 U	2.0 J	NA	4.6 J	3.1 J	5.0 U	1.3 J	2.6 J	3.4 J	3.6 J	3.0 J	NA	5.0 U	1.2 J
Chloromethane	-	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	NA	NA	NA	4.1 J	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Cyclohexane	-	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
m,p-Xylene	5	ug/L	NA	NA	NA	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
o-Xylene	5	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Styrene	5	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Tetrachloroethene	5	ug/L	NA	8.0	NA	25	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	30	NA	23 J	20
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.8 J	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ08 11/08/05	PZ09 06/25/04	PZ09 11/09/05	PZ09 09/05/07	PZ10 06/26/04	PZ10 11/08/05	PZ10 09/06/07	PZ10 01/03/08	PZ10 02/17/10	PZ10 08/03/10	PZ10 06/14/11	PZ10 03/20/12	PZ10 11/12/12	PZ11 06/26/04	PZ11 11/08/05	PZ11 09/06/07	PZ11 01/03/08
Trichloroethene	5	ug/L	NA	5.0 U	NA	5.5	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	22	NA	4.9 J	2.9 J
Trichlorofluoromethane	5	ug/L	NA	NA	NA	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ
Vinyl Acetate	--	ug/L	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
Vinyl Chloride	2	ug/L	NA	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U
Xylenes (total)	5	ug/L	15 U	15 U	15 U	NA	15 U	15 U	NA	NA	NA	NA	NA	NA	NA	15 U	15 U	NA	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	9.0 U	NA	10 UJ	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	9.0 U	NA	10 U	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U
2,4-Dinitrophenol	10	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	10 U	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U
2,6-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2-Methylnaphthalene	--	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
2-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	19 U	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U
3-Nitroaniline	5	ug/L	NA	47 U	NA	10 U	47 U	NA	10 U	NA	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
4-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	47 U	NA	10 U	47 U	NA	10 U	NA	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U
4-Nitrophenol	--	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
Acenaphthene	20	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Acenaphthylene	--	ug/L	10 U	9.0 U	9.0 U	NA	9.0 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U	NA	NA
Acetophenone	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Anthracene	50	ug/L	10 U	9.0 U	9.0 U	10 UJ	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Atrazine	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Benzaldehyde	--	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Benzo(a)pyrene	0	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	--	ug/L	10 U	9.0 U	9.0 U	NA	9.0 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Benzoic Acid	--	ug/L	NA	47 U	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	19 U	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ08 11/08/05	PZ09 06/25/04	PZ09 11/09/05	PZ09 09/05/07	PZ10 06/26/04	PZ10 11/08/05	PZ10 09/06/07	PZ10 01/03/08	PZ10 02/17/10	PZ10 08/03/10	PZ10 06/14/11	PZ10 03/20/12	PZ10 11/12/12	PZ11 06/26/04	PZ11 11/08/05	PZ11 09/06/07	PZ11 01/03/08
bis(2-Chloroethyl)ether	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	9.0 U	NA	10 U	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U
Butylbenzylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Caprolactam	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	10 UJ	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U
Chrysene	0.002	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	10 U	9.0 U	9.0 U	NA	9.0 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	10 U	NA	NA
Dibenzofuran	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Diethylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Fluoranthene	50	ug/L	10 U	9.0 U	9.0 U	10 UJ	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Fluorene	50	ug/L	10 U	9.0 U	9.0 U	10 UJ	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	42 U	NA	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA	43 U	NA	NA	NA
Hexachloroethane	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Isophorone	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Naphthalene	10	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Nitrobenzene	0.4	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	47 U	NA	10 U	47 U	NA	10 U	NA	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U
Phenanthrene	50	ug/L	10 U	9.0 U	9.0 U	10 UJ	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Phenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA
Pyrene	50	ug/L	10 U	9.0 U	9.0 U	10 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA	NA	9.0 U	10 U	10 U	10 U
Total PAHs	--	ug/L	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	400 U	NA	NA	632	NA	NA	NA	NA	NA	NA	NA	NA	862 U	NA	NA	NA
Antimony	3	ug/L	NA	120 U	NA	NA	120 U	NA	NA	NA	NA	NA	NA	NA	NA	120 U	NA	NA	NA
Arsenic	25	ug/L	NA	20.0 U	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA
Barium	1,000	ug/L	NA	400 U	NA	NA	400 U	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	NA	NA
Beryllium	3	ug/L	NA	10.0 U	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA
Cadmium	5	ug/L	NA	10.0 U	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	10.0	NA	NA	NA
Calcium	--	ug/L	NA	120000	NA	NA	138000	NA	NA	NA	NA	NA	NA	NA	NA	119000 U	NA	NA	NA
Chromium	50	ug/L	NA	20.0 U	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA
Cobalt	--	ug/L	NA	100 U	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA
Copper	200	ug/L	NA	50.0 U	NA	NA	50.0 U	NA	NA	NA	NA	NA	NA	NA	NA	50.0	NA	NA	NA
Cyanide	200	ug/L	NA	10.0 U	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA
Iron	300	ug/L	NA	200 U	NA	NA	998	NA	NA	NA	NA	NA	NA	NA	NA	1490 U	NA	NA	NA
Lead	25	ug/L	NA	5.00 U	NA	NA	5.00 U	NA	NA	NA	NA	NA	NA	NA	NA	5.00	NA	NA	NA
Magnesium	35,000	ug/L	NA	27400	NA	NA	31000	NA	NA	NA	NA	NA	NA	NA	NA	29200	NA	NA	NA
Manganese	300	ug/L	NA	30.0 U	NA	NA	34.2	NA	NA	NA	NA	NA	NA	NA	NA	330 UJ	NA	NA	NA
Mercury	0.7	ug/L	NA	0.330 UJ	NA	NA	0.330 UJ	NA	NA	NA	NA	NA	NA	NA	NA	0.330 U	NA	NA	NA
Nickel	100	ug/L	NA	80.0 U	NA	NA	80.0 U	NA	NA	NA	NA	NA	NA	NA	NA	80.0 U	NA	NA	NA
Potassium	--	ug/L	NA	50000 U	NA	NA	50000 U	NA	NA	NA	NA	NA	NA	NA	NA	50000 U	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ08 11/08/05	PZ09 06/25/04	PZ09 11/09/05	PZ09 09/05/07	PZ10 06/26/04	PZ10 11/08/05	PZ10 09/06/07	PZ10 01/03/08	PZ10 02/17/10	PZ10 08/03/10	PZ10 06/14/11	PZ10 03/20/12	PZ10 11/12/12	PZ11 06/26/04	PZ11 11/08/05	PZ11 09/06/07	PZ11 01/03/08
Selenium	10	ug/L	NA	15.0 U	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA
Silver	50	ug/L	NA	20.0 U	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	20.0	NA	NA	NA
Sodium	20,000	ug/L	NA	126000	NA	NA	146000	NA	NA	NA	NA	NA	NA	NA	NA	112000 U	NA	NA	NA
Thallium	0.5	ug/L	NA	20.0 U	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA
Vanadium	- -	ug/L	NA	100 U	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	100 UJ	NA	NA	NA
Zinc	2,000	ug/L	NA	40.0 UJ	NA	NA	40.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	40.0	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ11 02/17/10	PZ11 08/03/10	PZ11 06/14/11	PZ11 03/20/12	PZ11 11/12/12	PZ12 09/29/04	PZ12 11/08/05	PZ12 09/06/07	PZ12 01/03/08	PZ12 02/17/10	PZ12 08/03/10	PZ12 06/14/11	PZ12 03/20/12	PZ12 11/12/12	PZ13 09/29/04	PZ13 11/08/05	PZ13 09/06/07
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	5.0 UJ	NA	NA
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	3.0 J	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	NA	5.0 U
Chloroform	7	ug/L	2.4 J	2.4 J	3.4 J	2.0 J	2.2 J	4.0 J	NA	5.0 U	5.0 U	5.0 U	5.0	1.6 J	1.6 J	0.81 J	3.0 J	NA	5.0 U
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
cis-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	0.73 J	NA	NA	7.0	2.1 J	5.0 U	5.0 U	0.97 J	1.0 J	0.65 J	NA	NA	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Cyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
o-Xylene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Tetrachloroethene	5	ug/L	16	6.6	15 J	11	12 J	4.0 J	NA	16	6.3	6.7	1.4 J	2.1 J	6.6	6.6 J	5.0 U	NA	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	0.53 J	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ11 02/17/10	PZ11 08/03/10	PZ11 06/14/11	PZ11 03/20/12	PZ11 11/12/12	PZ12 09/29/04	PZ12 11/08/05	PZ12 09/06/07	PZ12 01/03/08	PZ12 02/17/10	PZ12 08/03/10	PZ12 06/14/11	PZ12 03/20/12	PZ12 11/12/12	PZ13 09/29/04	PZ13 11/08/05	PZ13 09/06/07
Trichloroethene	5	ug/L	5.0 U	1.8 J	2.6 J	2.0 J	1.8 J	1.0 J	NA	4.7 J	1.6 J	5.0 U	5.0 U	0.73 J	2.7 J	1.6 J	5.0 U	NA	5.0 U
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	NA	15 U	15 U	NA	NA	NA	NA	NA	NA	NA	15 U	15 U	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	48 U	NA	10 U	10 U	NA	NA	NA	NA	NA	48 U	NA	10 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	48 U	NA	10 U	10 U	NA	NA	NA	NA	NA	48 U	NA	10 U
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Acenaphthene	20	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	4.0 J	10 U	10 U
Acenaphthylene	--	ug/L	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Anthracene	50	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Benzo(a)anthracene	0.002	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Benzo(a)pyrene	0	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	140 UJ	NA	NA	NA	NA	NA	NA	NA	NA	140 UJ	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA

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Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ11 02/17/10	PZ11 08/03/10	PZ11 06/14/11	PZ11 03/20/12	PZ11 11/12/12	PZ12 09/29/04	PZ12 11/08/05	PZ12 09/06/07	PZ12 01/03/08	PZ12 02/17/10	PZ12 08/03/10	PZ12 06/14/11	PZ12 03/20/12	PZ12 11/12/12	PZ13 09/29/04	PZ13 11/08/05	PZ13 09/06/07
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U
Chrysene	0.002	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Fluoranthene	50	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Fluorene	50	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA	43 U	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Naphthalene	10	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	48 U	NA	10 U	10 U	NA	NA	NA	NA	NA	48 U	NA	10 U
Phenanthrene	50	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Pyrene	50	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	1.0 J	10 U	10 U
Total PAHs	--	ug/L	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	5.0 J	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ11 02/17/10	PZ11 08/03/10	PZ11 06/14/11	PZ11 03/20/12	PZ11 11/12/12	PZ12 09/29/04	PZ12 11/08/05	PZ12 09/06/07	PZ12 01/03/08	PZ12 02/17/10	PZ12 08/03/10	PZ12 06/14/11	PZ12 03/20/12	PZ12 11/12/12	PZ13 09/29/04	PZ13 11/08/05	PZ13 09/06/07
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ13 01/03/08	PZ13 02/18/10	PZ13 08/04/10	PZ13 06/14/11	PZ13 03/20/12	PZ13 11/13/12	PZ13 12/20/18	PZ13 08/25/22	PZ14 09/29/04	PZ14 11/08/05	PZ14 08/25/22	PZ15 09/30/04	PZ15 11/08/05	PZ15 09/06/07	PZ15 01/03/08	PZ15 02/17/10	PZ15 08/03/10
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 UJ	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U	NA	NA	25 U	NA	NA	NA	NA	NA
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	R	NA	NA	R	NA	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 J	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	1.0 UJ	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	R	NA	NA	5.0 UJ	NA	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 UJ	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	R	NA	NA	R	NA	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	5.0 U	5.0 U	7.8	2.2 J	5.0 U	0.52 J	1.0 U	NA	5.0	NA	NA	5.0 U	NA	5.0 U	1.5 J	5.0 U	1.2 J
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
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	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Cyclohexane	-	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
o-Xylene	5	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	0.52 J	NA	5.0 U	NA	NA	2.0 J	NA	5.0 U	2.2 J	2.6 J	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ13 01/03/08	PZ13 02/18/10	PZ13 08/04/10	PZ13 06/14/11	PZ13 03/20/12	PZ13 11/13/12	PZ13 12/20/18	PZ13 08/25/22	PZ14 09/29/04	PZ14 11/08/05	PZ14 08/25/22	PZ15 09/30/04	PZ15 11/08/05	PZ15 09/06/07	PZ15 01/03/08	PZ15 02/17/10	PZ15 08/03/10
Trichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	25 U	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	15 U	15 U	2.0 U	15 U	15 U	NA	NA	NA	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	10 U	10 U	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	5.4 U	NA	NA	5.4 U	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	10 U	10 U	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	10 U	10 U	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	20 U	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA
3-Nitroaniline	5	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	10 U	10 U	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	10 U	10 U	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Acenaphthylene	--	ug/L	NA	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	NA	NA	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 UJ	NA	NA	NA	NA	NA
Anthracene	50	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 UJ	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 UJ	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Benzo(a)pyrene	0	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Benzo(b)fluoranthene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	140 UJ	NA	NA	150 U	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	20 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ13 01/03/08	PZ13 02/18/10	PZ13 08/04/10	PZ13 06/14/11	PZ13 03/20/12	PZ13 11/13/12	PZ13 12/20/18	PZ13 08/25/22	PZ14 09/29/04	PZ14 11/08/05	PZ14 08/25/22	PZ15 09/30/04	PZ15 11/08/05	PZ15 09/06/07	PZ15 01/03/08	PZ15 02/17/10	PZ15 08/03/10
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	10 U	10 U	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Carbazole	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA
Chrysene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	NA	NA	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Fluorene	50	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	43 U	NA	NA	45 U	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA	50 U	NA	10 U	10 U	NA	NA
Phenanthrene	50	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
Pyrene	50	ug/L	10 U	NA	NA	NA	NA	NA	5.0 U	5.4 U	10 U	10 U	5.4 U	10 U	10 U	10 U	10 U	NA	NA
Total PAHs	--	ug/L	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	0.00300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	0.00300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Volatile Organics																				
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,1-Dichloroethane	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 UJ	
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,2-Dibromoethane	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,2-Dichloroethene (total)	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	82	
1,2-Dichloropropane	1	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
2-Butanone	50	ug/L	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	100 U	NA	25 U	NA	NA	25 U	25 U	
2-Hexanone	50	ug/L	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	50 U	NA	25 U	NA	NA	25 U	25 U	
4-Methyl-2-pentanone	--	ug/L	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	50 U	NA	25 U	NA	NA	25 U	25 U	
Acetone	50	ug/L	NA	NA	NA	R	NA	25 U	NA	NA	R	NA	100 U	NA	25 U	NA	NA	R	R	
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	69	93	710	240	5.0 U	5.0 U	10 U	5.0 U	5.0 U	
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Bromoform	50	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 UJ	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Bromomethane	5	ug/L	NA	NA	NA	5.0 UJ	NA	5.0 U	NA	NA	5.0 UJ	NA	10 U	NA	5.0 U	NA	NA	5.0 UJ	R	
Carbon Disulfide	--	ug/L	NA	NA	NA	5.0 UJ	NA	5.0 U	NA	NA	5.0 UJ	NA	10 U	NA	5.0 U	NA	NA	5.0 UJ	5.0 U	
Carbon Tetrachloride	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Chlorobenzene	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Chloroethane	5	ug/L	5.0 U	5.0 U	5.0 U	R	NA	5.0 U	NA	NA	R	NA	10 U	NA	5.0 U	NA	NA	R	R	
Chloroform	7	ug/L	5.0 U	5.0 U	1.8 J	10	NA	0.90 J	NA	NA	3.0 J	NA	10 U	NA	1.0 J	NA	NA	4.0 J	5.0 U	
Chloromethane	--	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
cis-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Cyclohexane	--	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
Dibromochloromethane	50	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 J	7.0	10 U	4.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
m,p-Xylene	5	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methyl acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
Methylcyclohexane	--	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
Methylene Chloride	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
o-Xylene	5	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Styrene	5	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	
Tetrachloroethene	5	ug/L	1.7 J	5.0 U	2.6 J	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	110	
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 J	10 U	4.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	
trans-1,2-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	

Table 2
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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ15 06/14/11	PZ15 03/20/12	PZ15 11/12/12	PZ16 09/30/04	PZ16 11/11/05	PZ17 09/02/05	PZ17 11/10/05	PZ17 08/24/22	PZ18 09/30/04	PZ18 11/11/05	PZ18 12/20/18	PZ18 08/25/22	PZ19 09/02/05	PZ19 11/10/05	PZ19 08/24/22	PZ20 09/30/04	PZ21 10/01/04
Trichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	10 U	NA	5.0 U	NA	NA	5.0 U	38
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	25 U	NA	25 U	NA	NA	25 U	NA	NA	NA	25 U	NA	NA	25 U	25 UJ
Vinyl Chloride	2	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	NA	5.0 U	NA	60	NA	5.0 U	NA	NA	5.0 U	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	15 U	15 U	15 U	15 U	2.0 U	15 U	6.0 J	20 U	8.0 U	15 U	15 U	20 U	15 U	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	73 J	110 J	710	240	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	1.2 J	NA	NA	5.7 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	48 U	NA	50 UJ	NA	NA	48 U	NA	NA	NA	48 UJ	NA	NA	48 U	48 U
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2-Chloronaphthalene	10	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2-Chlorophenol	1	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2-Methylnaphthalene	--	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	NA	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
2-Methylphenol	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
2-Nitroaniline	5	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
2-Nitrophenol	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	19 U	NA	20 U	NA	NA	19 U	NA	NA	NA	19 U	NA	NA	19 U	19 U
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
4-Chloroaniline	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
4-Methylphenol	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
4-Nitroaniline	5	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
4-Nitrophenol	--	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
Acenaphthene	20	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	0.56 J	10 U	9.0 U	5.7 U	10 U	10 U
Acenaphthylene	--	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Acetophenone	--	ug/L	NA	NA	NA	10 UJ	NA	10 U	NA	NA	10 UJ	NA	NA	NA	10 U	NA	NA	10 UJ	10 UJ
Anthracene	50	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Atrazine	5	ug/L	NA	NA	NA	10 UJ	NA	10 U	NA	NA	10 UJ	NA	NA	NA	10 U	NA	NA	10 UJ	10 UJ
Benzaldehyde	--	ug/L	NA	NA	NA	48 UJ	NA	50 U	NA	NA	48 UJ	NA	NA	NA	48 U	NA	NA	48 UJ	48 UJ
Benzo(a)anthracene	0.002	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Benzo(a)pyrene	0	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Benzoic Acid	--	ug/L	NA	NA	NA	140 U	NA	150 UJ	NA	NA	140 U	NA	NA	NA	140 UJ	NA	NA	140 U	140 U
Benzyl Alcohol	--	ug/L	NA	NA	NA	19 U	NA	20 U	NA	NA	19 U	NA	NA	NA	19 U	NA	NA	19 U	19 U
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U

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bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Butylbenzylphthalate	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Caprolactam	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Dibenzofuran	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	17	NA	NA	10 U	10 U
Diethylphthalate	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Dimethylphthalate	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Fluoranthene	50	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Fluorene	50	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	43 U	NA	45 U	NA	NA	43 U	NA	NA	NA	43 U	NA	NA	43 U	43 U
Hexachloroethane	5	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Isophorone	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Naphthalene	10	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Pentachlorophenol	1	ug/L	NA	NA	NA	48 U	NA	50 U	NA	NA	48 U	NA	NA	NA	48 U	NA	NA	48 U	48 U
Phenanthrene	50	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Phenol	1	ug/L	NA	NA	NA	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	10 U	10 U
Pyrene	50	ug/L	NA	NA	NA	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	5.4 U	10 U	9.0 U	5.7 U	10 U	10 U
Total PAHs	--	ug/L	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	17	ND	ND	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	127	NA	NA	NA	NA	NA	NA	107	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	2.00 U	NA	NA	NA	NA	NA	NA	2.00 U	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	1.00 U	NA	NA	NA	NA	NA	NA	1.00 U	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	98800	NA	NA	NA	NA	NA	NA	133000	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	4.00 U	NA	NA	NA	NA	NA	NA	4.00 U	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	4.00 U	NA	NA	NA	NA	NA	NA	4.00 U	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	75.3	NA	NA	NA	NA	9500	NA	170	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	5.00 UJ	NA	NA	NA	NA	NA	NA	5.00 UJ	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	21300	NA	NA	NA	NA	NA	NA	28900	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	10.6	NA	NA	NA	NA	1100	NA	15.1	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	0.330 U	NA	NA	NA	NA	NA	NA	0.330 U	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	5530	NA	NA	NA	NA	NA	NA	10600	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	3.00 U	NA	NA	NA	NA	NA	NA	3.00 U	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	105000	NA	NA	NA	NA	NA	NA	103000	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	5.00 U	NA	NA	NA	NA	NA	NA	5.00 U	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.0 J	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.40	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ21 11/10/05	PZ22 10/01/04	PZ22 11/08/05	PZ24 10/01/04	PZ24 11/09/05	PZ24 09/06/07	PZ24 01/03/08	PZ24 02/17/10	PZ24 08/04/10	PZ24 06/14/11	PZ24 03/20/12	PZ24 11/12/12	PZ24 12/20/18	PZ24 08/25/22	PZ25 10/01/04	PZ25 11/09/05	PZ26 10/01/04
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
1,1-Dichloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 UJ	NA	5.0 UJ
1,1-Dichloroethene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
1,2-Dichloroethene (total)	-	ug/L	NA	10 U	NA	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	NA	10 U
1,2-Dichloropropane	1	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	25 U	NA	25 U
2-Hexanone	50	ug/L	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U	NA	25 U
4-Methyl-2-pentanone	-	ug/L	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U	NA	25 U
Acetone	50	ug/L	NA	R	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	25 U	NA	25 U
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.56 J	1.0 J	5.0 U	0.66 J	1.0 U	25	21	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	5.0 U
Bromoform	50	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 UJ	NA	5.0 U	NA	5.0 U
Bromomethane	5	ug/L	NA	5.0 UJ	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Carbon Disulfide	-	ug/L	NA	5.0 UJ	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Carbon Tetrachloride	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Chlorobenzene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Chloroethane	5	ug/L	NA	R	NA	R	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	5.0 U
Chloroform	7	ug/L	NA	7.0	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	1.3 J	0.81 J	5.0 U	0.51 J	1.0 U	NA	1.0 J	NA	2.0 J
Chloromethane	-	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
cis-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	4.1 J	5.3	5.4	35	7.2	4.5 J	2.5	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Cyclohexane	-	ug/L	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA
Dibromochloromethane	50	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	0.50 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	180	210 D	5.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA
m,p-Xylene	5	ug/L	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA
Methylene Chloride	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
o-Xylene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA	NA
Styrene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U
Tetrachloroethene	5	ug/L	NA	5.0 U	NA	41	NA	5.0 U	8.8	30	31	19	47	36 J	3.7	NA	17	NA	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	15 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	12	9.0	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	1.1 J	5.0 U	2.2 J	6.9	3.5 J	2.4 J	1.0 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U	NA	5.0 U

Table 2
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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ21 11/10/05	PZ22 10/01/04	PZ22 11/08/05	PZ24 10/01/04	PZ24 11/09/05	PZ24 09/06/07	PZ24 01/03/08	PZ24 02/17/10	PZ24 08/04/10	PZ24 06/14/11	PZ24 03/20/12	PZ24 11/12/12	PZ24 12/20/18	PZ24 08/25/22	PZ25 10/01/04	PZ25 11/09/05	PZ26 10/01/04
Trichloroethene	5	ug/L	NA	5.0 U	NA	19	NA	5.0 U	2.9 J	8.9	11	17	14	9.3	1.7	NA	17	NA	5.0 U
Trichlorofluoromethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA	NA	NA
Vinyl Acetate	--	ug/L	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	25 UJ
Vinyl Chloride	2	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U	NA	5.0 U
Xylenes (total)	5	ug/L	15 U	15 U	15 U	15 U	100 D	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	110	84	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	100 J	ND	ND	ND	ND	0.56 J	1.0 J	ND	0.66 J	ND	330	320	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	4.0 J	NA	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4,5-Trichlorophenol	1	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4,6-Trichlorophenol	1	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4-Dichlorophenol	5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4-Dimethylphenol	50	ug/L	NA	9.0 U	NA	10 U	NA	10 U	R	11 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
2,4-Dinitrophenol	10	ug/L	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	50 U
2,4-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	10 U	NA	10 U
2,6-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2-Chloronaphthalene	10	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2-Chlorophenol	1	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2-Methylnaphthalene	--	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	NA	5.0 U	40	52	10 U
2-Methylphenol	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
2-Nitroaniline	5	ug/L	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	50 U
2-Nitrophenol	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
3,3'-Dichlorobenzidine	5	ug/L	NA	19 U	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	20 U
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	10 U	R	11 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	47 U	NA	48 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	48 U	NA	50 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	50 U
4-Bromophenyl-phenylether	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
4-Chloro-3-Methylphenol	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
4-Chloroaniline	5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
4-Chlorophenyl-phenylether	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
4-Methylphenol	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
4-Nitroaniline	5	ug/L	NA	47 U	NA	48 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	48 U	NA	50 U
4-Nitrophenol	--	ug/L	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	50 U
Acenaphthene	20	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	11	11	10 U
Acenaphthylene	--	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	23	30	10 U
Acetophenone	--	ug/L	NA	9.0 UJ	NA	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Anthracene	50	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Atrazine	5	ug/L	NA	9.0 UJ	NA	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Benzaldehyde	--	ug/L	NA	47 UJ	NA	48 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U	NA	50 U
Benzo(a)anthracene	0.002	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Benzo(a)pyrene	0	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	--	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	4.0 J	10 U	10 U
Benzo(k)fluoranthene	0.002	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Benzoic Acid	--	ug/L	NA	140 U	NA	140 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140 U	NA	150 U
Benzyl Alcohol	--	ug/L	NA	19 U	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	20 U
bis(2-Chloroethoxy)methane	5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U

Table 2
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Site Management Plan
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bis(2-Chloroethyl)ether	1	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	12	NA	10 U
Butylbenzylphthalate	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Caprolactam	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Carbazole	--	ug/L	NA	NA	NA	NA	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	10 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Dibenzofuran	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Diethylphthalate	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Dimethylphthalate	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Di-n-Butylphthalate	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Di-n-Octylphthalate	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Fluoranthene	50	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Fluorene	50	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Hexachlorobutadiene	0.5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Hexachlorocyclopentadiene	5	ug/L	NA	43 U	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43 U	NA	45 U
Hexachloroethane	5	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Isophorone	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Naphthalene	10	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	56	45	10 U
Nitrobenzene	0.4	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
N-Nitroso-di-n-propylamine	--	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
N-Nitrosodiphenylamine	50	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Pentachlorophenol	1	ug/L	NA	47 U	NA	48 U	NA	10 U	R	11 U	10 UJ	NA	NA	NA	NA	NA	48 U	NA	50 U
Phenanthrene	50	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	1.6 J	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Phenol	1	ug/L	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	1.0 J
Pyrene	50	ug/L	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.0 U	10 U	10 U	10 U
Total PAHs	--	ug/L	ND	ND	ND	ND	ND	ND	1.6 J	ND	ND	NA	NA	NA	ND	ND	130 J	140	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25200	NA	NA	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	770	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ26 11/09/05	PZ27 10/02/04	PZ27 11/11/05	PZ27 12/21/18	PZ28 10/02/04	PZ28 11/08/05	PZ29 10/02/04	PZ29 11/16/05	PZ29 12/20/18	PZ29 08/25/22	PZ30 05/17/05	PZ30 11/11/05	PZ31 05/17/05	PZ31 11/10/05	PZ31 09/05/07	PZ31 01/02/08	PZ31 02/18/10
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 UJ	NA	5.0 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	5.0 UJ	NA	1.0 U	5.0 UJ	NA	5.0 UJ	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
1,1-Dichloroethene	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
1,2-Dichloroethene (total)	-	ug/L	NA	10 U	NA	NA	10 U	NA	10 U	NA	NA	NA	10 U	NA	5.0 U	NA	NA	NA	NA
1,2-Dichloropropane	1	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	ug/L	NA	25 U	NA	10 U	25 U	NA	25 U	NA	10 U	NA	25 U	NA	25 U	NA	NA	NA	NA
2-Hexanone	50	ug/L	NA	25 U	NA	5.0 U	25 U	NA	25 U	NA	5.0 U	NA	25 U	NA	25 U	NA	NA	NA	NA
4-Methyl-2-pentanone	-	ug/L	NA	25 U	NA	5.0 U	25 U	NA	25 U	NA	5.0 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Acetone	50	ug/L	NA	25 U	NA	10 U	25 U	NA	25 U	NA	10 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U
Bromoform	50	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 UJ	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Bromomethane	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	R	NA	R	NA	NA	NA	NA
Carbon Disulfide	-	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Carbon Tetrachloride	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Chlorobenzene	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	R	NA	R	NA	5.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	NA	7.0	NA	1.0 U	9.0	NA	2.0 J	NA	1.0 U	NA	8.0	NA	5.0 U	NA	5.0 U	5.0 U	9.4
Chloromethane	-	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 UJ	NA	NA	NA	NA
cis-1,2-Dichloroethene	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	52	13	6.1
cis-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Cyclohexane	-	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U
Dibromochloromethane	50	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	0.50 J	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U
m,p-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U
Methyl acetate	-	ug/L	NA	NA	NA	2.5 U	NA	NA	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	-	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
o-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U
Styrene	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA
Tetrachloroethene	5	ug/L	NA	5.0 U	NA	1.0 U	1.0 J	NA	87	NA	12	NA	5.0 U	NA	120	NA	350 D	130 D	190 D
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	3.0 J	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	9.5	2.5 J	1.9 J
trans-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

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Trichloroethene	5	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	0.64 J	NA	5.0 U	NA	9.0	NA	82	42	25
Trichlorofluoromethane	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	5.0 U	5.0 UJ	5.0 U
Vinyl Acetate	--	ug/L	NA	25 UJ	NA	NA	25 UJ	NA	25 UJ	NA	NA	NA	25 U	NA	25 U	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	NA	5.0 U	NA	1.0 U	5.0 U	NA	5.0 U	NA	1.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	15 U	15 U	15 U	2.0 U	15 U	15 U	15 U	4.0 J	2.0 U	2.0 U	15 U	15 U	15 U	15 U	NA	NA	NA
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	ND	ND	7.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	10 UJ	10 U	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	10 U	10 U	NA
2,4-Dinitrophenol	10	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	10 U	10 U	NA
2,6-Dinitrotoluene	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	10 U	9.0 U	10 U	NA	9.0 U	10 U	10 U	10 U	NA	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
2-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	19 U	NA	NA	19 U	NA	19 U	NA	NA	NA	19 U	NA	19 U	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA
3-Nitroaniline	5	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	10 U	10 U	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	10 U	10 U	NA
4-Nitrophenol	--	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	NA	NA	NA
Acenaphthene	20	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Acenaphthylene	--	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA
Acetophenone	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Anthracene	50	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 UJ	10 U	NA
Atrazine	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 U	NA	48 U	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Benzo(a)pyrene	0	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Benzo(b)fluoranthene	0.002	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Benzo(g,h,i)perylene	--	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Benzoic Acid	--	ug/L	NA	140 U	NA	NA	140 U	NA	140 U	NA	NA	NA	140 U	NA	140 U	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	19 U	NA	NA	19 U	NA	19 U	NA	NA	NA	19 U	NA	19 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA

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bis(2-Chloroethyl)ether	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	10 U	10 U	NA
Butylbenzylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U	NA
Chrysene	0.002	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Dibenzo(a,h)anthracene	--	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA
Dibenzofuran	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Fluoranthene	50	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 UJ	10 U	NA
Fluorene	50	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 UJ	10 U	NA
Hexachlorobenzene	0.04	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	43 U	NA	NA	43 U	NA	43 U	NA	NA	NA	43 U	NA	43 U	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Isophorone	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Naphthalene	10	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Nitrobenzene	0.4	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	47 U	NA	NA	47 U	NA	48 U	NA	NA	NA	47 UJ	NA	48 UJ	NA	10 U	10 U	NA
Phenanthrene	50	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 UJ	10 U	NA
Phenol	1	ug/L	NA	9.0 U	NA	NA	9.0 U	NA	10 U	NA	NA	NA	9.0 U	NA	10 U	NA	NA	NA	NA
Pyrene	50	ug/L	10 U	9.0 U	10 U	5.0 U	9.0 U	10 U	10 U	10 U	5.0 U	5.0 U	9.0 U	10 U	10 U	10 U	10 U	10 U	NA
Total PAHs	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	160	NA	NA	NA	NA	210	NA	NA	NA	NA	NA	NA	NA	319
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	9.30	NA	NA	NA	NA	16.0	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ26 11/09/05	PZ27 10/02/04	PZ27 11/11/05	PZ27 12/21/18	PZ28 10/02/04	PZ28 11/08/05	PZ29 10/02/04	PZ29 11/16/05	PZ29 12/20/18	PZ29 08/25/22	PZ30 05/17/05	PZ30 11/11/05	PZ31 05/17/05	PZ31 11/10/05	PZ31 09/05/07	PZ31 01/02/08	PZ31 02/18/10
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	91.0	NA	NA	NA	NA	0.0500 U	NA	NA	NA	NA	NA	NA	NA	201
Manganese	300	ug/L	NA	NA	NA	0.750 J	NA	NA	NA	NA	11.0	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ31 08/04/10	PZ31 06/14/11	PZ31 03/20/12	PZ31 11/13/12	PZ31 08/25/22	PZ32 05/18/05	PZ32 11/10/05	PZ32 09/05/07	PZ32 01/03/08	PZ32 02/17/10	PZ32 08/04/10	PZ32 06/14/11	PZ32 03/20/12	PZ32 11/13/12	PZ32 12/20/18	PZ32 08/24/22	PZ33 05/17/05
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1-Dichloroethene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,2-Dichloroethene (total)	-	ug/L	NA	NA	NA	NA	NA	360 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	17 J
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U
4-Methyl-2-pentanone	-	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U
Acetone	50	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	25 U
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.4 J	5.0 U	1.0 U	1.0 U	5.0 U
Bromodichloromethane	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U
Bromoform	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 UJ	NA	5.0 U
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	R
Carbon Disulfide	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Chloroethane	5	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U	NA	R	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	1.0 U	NA	R
Chloroform	7	ug/L	6.9	3.2 J	4.9 J	5.5	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	8.3	5.0 U	5.0 U	1.0 U	NA	5.0 U
Chloromethane	-	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
cis-1,2-Dichloroethene	5	ug/L	2.7 J	20	4.1 J	7.0	NA	NA	NA	23	38	5.0 U	11	0.56 J	5.0 U	3.0 J	1.6	NA	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Cyclohexane	-	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	2.0 J	5.0 U	3.6 J	5.0 U	5.0 U	1.2 J	5.0 U	3.0 J	1.1 J	1.0 U	1.0 U	5.0 U
Isopropylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.56 J	5.0 U	1.0 U	NA	NA
m,p-Xylene	5	ug/L	10 U	10 U	10 U	10 U	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Methylcyclohexane	-	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
o-Xylene	5	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.1	5.0 U	5.0 U	1.3 J	5.0 U	3.0 J	5.0 U	NA	NA	NA
Styrene	5	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Tetrachloroethene	5	ug/L	180	100	130 D	220 D	NA	240 D	NA	11	10	5.0 U	66	30	8.4	13 J	17	NA	83
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	0.98 J	26	1.9 J	2.5 J	NA	NA	NA	12	6.5	5.6	31	5.0 U	6.4	9.6	2.6	NA	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ31 08/04/10	PZ31 06/14/11	PZ31 03/20/12	PZ31 11/13/12	PZ31 08/25/22	PZ32 05/18/05	PZ32 11/10/05	PZ32 09/05/07	PZ32 01/03/08	PZ32 02/17/10	PZ32 08/04/10	PZ32 06/14/11	PZ32 03/20/12	PZ32 11/13/12	PZ32 12/20/18	PZ32 08/24/22	PZ33 05/17/05
Trichloroethene	5	ug/L	17	58	21	31	NA	70	NA	5.7	6.8	5.0 U	46	3.3 J	3.2 J	8.0	6.4	NA	11
Trichlorofluoromethane	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Vinyl Chloride	2	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	6.3	41	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U
Xylenes (total)	5	ug/L	NA	NA	NA	NA	2.0 U	2.0 J	15 U	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	4.0 J	ND	8.7 J	ND	ND	2.5 J	ND	7.4 J	1.1 J	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	NA	NA	NA	NA	2.0 J	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2 U	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,4-Dimethylphenol	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U
2,4-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	5.0 U	10	0.60 J	6.9 J	10 U	NA	NA	NA	NA	NA	NA	5.2 U	9.0 U
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	47 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
4-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	47 U	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	47 U
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U
Acenaphthene	20	ug/L	NA	NA	NA	NA	5.0 U	15	2.0 J	9.9 J	2.1 J	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Acenaphthylene	--	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	2.0 J	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Anthracene	50	ug/L	NA	NA	NA	NA	5.0 U	3.0 J	0.80 J	10 UJ	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Atrazine	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47 U
Benzo(a)anthracene	0.002	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Benzo(a)pyrene	0	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Benzo(b)fluoranthene	0.002	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Benzo(g,h,i)perylene	--	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Benzo(k)fluoranthene	0.002	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	140 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140 U
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ31 08/04/10	PZ31 06/14/11	PZ31 03/20/12	PZ31 11/13/12	PZ31 08/25/22	PZ32 05/18/05	PZ32 11/10/05	PZ32 09/05/07	PZ32 01/03/08	PZ32 02/17/10	PZ32 08/04/10	PZ32 06/14/11	PZ32 03/20/12	PZ32 11/13/12	PZ32 12/20/18	PZ32 08/24/22	PZ33 05/17/05
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Dibenzo(a,h)anthracene	--	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Fluoranthene	50	ug/L	NA	NA	NA	NA	5.0 U	2.0 J	1.0 J	1.6 J	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Fluorene	50	ug/L	NA	NA	NA	NA	5.0 U	7.0 J	0.80 J	10 UJ	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43 U
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Isophorone	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Naphthalene	10	ug/L	NA	NA	NA	NA	5.0 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Pentachlorophenol	1	ug/L	NA	NA	NA	NA	NA	47 UJ	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	47 UJ
Phenanthrene	50	ug/L	NA	NA	NA	NA	5.0 U	7.0 J	0.60 J	1.7 J	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Phenol	1	ug/L	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U
Pyrene	50	ug/L	NA	NA	NA	NA	5.0 U	3.0 J	2.0 J	2.0 J	10 U	NA	NA	NA	NA	NA	5.0 U	5.2 U	9.0 U
Total PAHs	--	ug/L	NA	NA	NA	NA	ND	47 J	9.8 J	22 J	2.1 J	NA	NA	NA	NA	NA	ND	ND	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U
Iron	300	ug/L	29.0 J	NA	NA	494 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.0 J	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ31 08/04/10	PZ31 06/14/11	PZ31 03/20/12	PZ31 11/13/12	PZ31 08/25/22	PZ32 05/18/05	PZ32 11/10/05	PZ32 09/05/07	PZ32 01/03/08	PZ32 02/17/10	PZ32 08/04/10	PZ32 06/14/11	PZ32 03/20/12	PZ32 11/13/12	PZ32 12/20/18	PZ32 08/24/22	PZ33 05/17/05
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.30 J	NA	NA

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NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ33 11/11/05	PZ34 05/17/05	PZ34 11/10/05	PZ35 05/17/05	PZ35 11/11/05	PZ36 05/18/05	PZ36 11/10/05	PZ36 09/05/07	PZ36 01/02/08	PZ36 02/17/10	PZ36 08/03/10	PZ36 06/14/11	PZ36 03/20/12	PZ36 11/13/12	PZ36 12/20/18	PZ36 08/24/22	PZ37 05/18/05
Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	NA	5.0 UJ	NA	5.0 U	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1,2-Trichloroethane	1	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1-Dichloroethane	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,1-Dichloroethene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	2.0 J	NA	5.0 U	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U	5.0 U	1.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dibromoethane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichloroethane	0.6	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,2-Dichloroethene (total)	-	ug/L	NA	10 U	NA	10 U	NA	550 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
1,2-Dichloropropane	1	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
2-Butanone	50	ug/L	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	28
2-Hexanone	50	ug/L	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U
4-Methyl-2-pentanone	-	ug/L	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	25 U
Acetone	50	ug/L	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	25 U
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0	32	36	13	9.4	21	14	17	29	12	3.8	5.0 U
Bromodichloromethane	50	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	5.0 U
Bromoform	50	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 UJ	NA	5.0 U
Bromomethane	5	ug/L	NA	R	NA	R	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	R
Carbon Disulfide	-	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Carbon Tetrachloride	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Chlorobenzene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Chloroethane	5	ug/L	NA	R	NA	R	NA	R	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.88 J	1.0 U	NA	R
Chloroform	7	ug/L	NA	1.0 J	NA	3.0 J	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U	5.0 U	1.0 U	NA	5.0 U
Chloromethane	-	ug/L	NA	5.0 U	NA	5.0 UJ	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
cis-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	26	53	26	8.8	54	13	6.6	4.6	NA	NA
cis-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Cyclohexane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA
Dibromochloromethane	50	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.0 J	170	76	21	23	60	5.0 U	67	70	4.5	1.3	5.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	19	9.3	8.4	11	2.9 J	13	17	2.6	NA	NA
m,p-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	25	8.8 J	3.9 J	11	10 U	12	10	NA	NA	NA
Methyl acetate	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	NA
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Methylcyclohexane	-	ug/L	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.2 J	0.32 J	NA	NA
Methylene Chloride	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
o-Xylene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	68	33	25	34 J	7.4	46	57	NA	NA	NA
Styrene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U
Tetrachloroethene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	140	NA	5.0 U	15	4.0 J	1.5 J	140	5.0 U	5.0 UJ	1.0 U	NA	5.0 U
Toluene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20	13	4.3 J	5.0 U	5.3	5.0 U	6.7	7.8	1.0 U	1.0 U	5.0 U
trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	75	31	40	63	50	140	33	11	NA	NA
trans-1,3-Dichloropropene	0.4	ug/L	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	5.0 U

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Site Management Plan
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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ33 11/11/05	PZ34 05/17/05	PZ34 11/10/05	PZ35 05/17/05	PZ35 11/11/05	PZ36 05/18/05	PZ36 11/10/05	PZ36 09/05/07	PZ36 01/02/08	PZ36 02/17/10	PZ36 08/03/10	PZ36 06/14/11	PZ36 03/20/12	PZ36 11/13/12	PZ36 12/20/18	PZ36 08/24/22	PZ37 05/18/05
Trichloroethene	5	ug/L	NA	5.0 U	NA	5.0 U	NA	120	NA	4.7 J	35	8.8	10	170 D	8.4	2.7 J	1.8	NA	5.0 U
Trichlorofluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	NA	NA
Vinyl Acetate	--	ug/L	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Vinyl Chloride	2	ug/L	NA	5.0 U	NA	5.0 U	NA	120	NA	530 D	55	5.5	14	19	9.6	8.1	6.5	NA	5.0 U
Xylenes (total)	5	ug/L	15 U	15 U	15 U	15 U	15 U	16	150	NA	NA	NA	NA	NA	NA	NA	2.5	2.0 U	15 U
Total BTEX	--	ug/L	ND	ND	ND	ND	ND	25 J	370	220	80 J	61 J	130 J	21	150	170	19	5.1	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	10 U	NA	9.0 U	NA	12	NA	10 UJ	16	13	9.2 J	NA	NA	NA	NA	NA	10 U
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.2	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4,5-Trichlorophenol	1	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4,6-Trichlorophenol	1	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4-Dichlorophenol	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2,4-Dimethylphenol	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	10 U
2,4-Dinitrophenol	10	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U
2,4-Dinitrotoluene	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	10 U
2,6-Dinitrotoluene	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Chloronaphthalene	10	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Chlorophenol	1	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Methylnaphthalene	--	ug/L	10 U	10 U	10 U	9.0 U	10 U	96	370 D	10 U	10 U	11 U	10 U	NA	NA	NA	NA	5.2 U	10 U
2-Methylphenol	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
2-Nitroaniline	5	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U
2-Nitrophenol	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
3,3'-Dichlorobenzidine	5	ug/L	NA	19 U	NA	19 U	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	48 U
4,6-Dinitro-2-methylphenol	--	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U
4-Bromophenyl-phenylether	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chloro-3-Methylphenol	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chloroaniline	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Chlorophenyl-phenylether	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Methylphenol	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
4-Nitroaniline	5	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	10 UJ	10 U	11 U	10 U	NA	NA	NA	NA	NA	48 U
4-Nitrophenol	--	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U
Acenaphthene	20	ug/L	10 U	10 U	10 U	9.0 U	10 U	54	160 D	70	58	43	68	NA	NA	NA	48	25	10 U
Acenaphthylene	--	ug/L	10 U	10 U	10 U	9.0 U	10 U	25	62	NA	NA	NA	NA	NA	NA	NA	13	9.0	10 U
Acetophenone	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Anthracene	50	ug/L	10 U	10 U	10 U	9.0 U	10 U	10	12	9.1 J	5.8 J	3.5 J	3.5 J	NA	NA	NA	1.6 J	0.64 J	10 U
Atrazine	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Benzaldehyde	--	ug/L	NA	48 U	NA	47 U	NA	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48 U
Benzo(a)anthracene	0.002	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	1.0 J	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Benzo(a)pyrene	0	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	0.60 J	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Benzo(b)fluoranthene	0.002	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	0.50 J	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Benzo(g,h,i)perylene	--	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.2 U	10 U
Benzo(k)fluoranthene	0.002	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Benzoic Acid	--	ug/L	NA	140 U	NA	140 U	NA	140 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140 U
Benzyl Alcohol	--	ug/L	NA	19 U	NA	19 U	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19 U
bis(2-Chloroethoxy)methane	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ33 11/11/05	PZ34 05/17/05	PZ34 11/10/05	PZ35 05/17/05	PZ35 11/11/05	PZ36 05/18/05	PZ36 11/10/05	PZ36 09/05/07	PZ36 01/02/08	PZ36 02/17/10	PZ36 08/03/10	PZ36 06/14/11	PZ36 03/20/12	PZ36 11/13/12	PZ36 12/20/18	PZ36 08/24/22	PZ37 05/18/05
bis(2-Chloroethyl)ether	1	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	10 U	10 U	11 U	10 U	NA	NA	NA	NA	NA	10 U
Butylbenzylphthalate	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Caprolactam	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Carbazole	--	ug/L	NA	NA	NA	NA	NA	NA	NA	1.8 J	1.1 J	11 U	10 U	NA	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	0.60 J	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Dibenzo(a,h)anthracene	--	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	5.2 U	10 U
Dibenzofuran	--	ug/L	NA	10 U	NA	9.0 U	NA	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Diethylphthalate	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Dimethylphthalate	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Di-n-Butylphthalate	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Di-n-Octylphthalate	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Fluoranthene	50	ug/L	10 U	10 U	10 U	9.0 U	10 U	7.0 J	8.0 J	6.4 J	4.3 J	2.3 J	2.7 J	NA	NA	NA	4.1 J	3.3 J	10 U
Fluorene	50	ug/L	10 U	10 U	10 U	9.0 U	10 U	17	36	14 J	13	11	12	NA	NA	NA	7.0	2.3 J	10 U
Hexachlorobenzene	0.04	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachlorobutadiene	0.5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachlorocyclopentadiene	5	ug/L	NA	43 U	NA	43 U	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43 U
Hexachloroethane	5	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	10 U	10 U	9.0 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	NA	NA	NA	5.0 U	5.2 U	10 U
Isophorone	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Naphthalene	10	ug/L	10 U	10 U	10 U	9.0 U	10 U	4.0 J	550 D	3.8 J	24	25	8.4 J	NA	NA	NA	5.0 U	5.2 U	10 U
Nitrobenzene	0.4	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
N-Nitroso-di-n-propylamine	--	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
N-Nitrosodiphenylamine	50	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Pentachlorophenol	1	ug/L	NA	48 UJ	NA	47 UJ	NA	48 UJ	NA	10 U	10 U	11 U	10 UJ	NA	NA	NA	NA	NA	48 UJ
Phenanthrene	50	ug/L	10 U	10 U	10 U	9.0 U	10 U	44	73	35 J	27	25	8.3 J	NA	NA	NA	18	1.1 J	10 U
Phenol	1	ug/L	NA	10 U	NA	9.0 U	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Pyrene	50	ug/L	10 U	10 U	10 U	9.0 U	10 U	9.0 J	9.0 J	7.2 J	5.6 J	3.2 J	3.4 J	NA	NA	NA	5.3	4.1 J	10 U
Total PAHs	--	ug/L	ND	ND	ND	ND	ND	270 J	1300 J	150 J	140 J	110 J	110 J	NA	NA	NA	97 J	45 J	ND
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1700	NA	NA
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	610	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0500 U	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	580	NA	NA

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Location ID: Date Collected:	NYSDEC GWQS	Units	PZ37 11/11/05	PZ37 09/05/07	PZ37 01/02/08	PZ37 02/17/10	PZ37 08/03/10	PZ37 06/15/11	PZ37 03/20/12	PZ37 11/13/12	PZ38 05/18/05	PZ38 11/09/05	PZ38 09/06/07	PZ38 01/03/08	PZ38 02/17/10	PZ38 08/04/10	PZ38 06/14/11	PZ38 03/20/12	PZ38 11/12/12	
Volatile Organics																				
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2-Trichloroethane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2,4-Trichlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dibromo-3-chloropropane	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dibromoethane	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethane	0.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethene (total)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Butanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	
2-Hexanone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	
4-Methyl-2-pentanone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	1	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Bromodichloromethane	50	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Bromoform	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Bromomethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Disulfide	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroethane	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Chloroform	7	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J	NA	5.0 U	1.6 J	5.0 U	1.0 J	2.0 J	2.4 J	1.7 J	
Chloromethane	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Cyclohexane	--	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	
Dibromochloromethane	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Isopropylbenzene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
m,p-Xylene	5	ug/L	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methyl acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methyl tert-butyl ether	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylcyclohexane	--	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Methylene Chloride	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
o-Xylene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	
Styrene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.40 J	
Toluene	5	ug/L	0.70 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
trans-1,2-Dichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDC GWQS	Units	PZ37 11/11/05	PZ37 09/05/07	PZ37 01/02/08	PZ37 02/17/10	PZ37 08/03/10	PZ37 06/15/11	PZ37 03/20/12	PZ37 11/13/12	PZ38 05/18/05	PZ38 11/09/05	PZ38 09/06/07	PZ38 01/03/08	PZ38 02/17/10	PZ38 08/04/10	PZ38 06/14/11	PZ38 03/20/12	PZ38 11/12/12
Trichloroethene	5	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5	ug/L	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	ug/L	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Xylenes (total)	5	ug/L	15 U	NA	NA	NA	NA	NA	NA	NA	15 U	15 U	NA	NA	NA	NA	NA	NA	NA
Total BTEX	--	ug/L	0.70 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organics																			
1,1'-Biphenyl	5	ug/L	NA	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA
1-Methylnaphthalene	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	50	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	5	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	--	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
2-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol, 4-Methylphenol	--	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
3-Nitroaniline	5	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	ug/L	NA	10 UJ	10 U	NA	NA	NA	NA	NA	47 U	NA	10 U	10 U	NA	NA	NA	NA	NA
4-Nitrophenol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Acenaphthylene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA
Acetophenone	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	50	ug/L	10 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Atrazine	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.002	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	0	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.002	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Benzoic Acid	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	140 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDC GWQS	Units	PZ37 11/11/05	PZ37 09/05/07	PZ37 01/02/08	PZ37 02/17/10	PZ37 08/03/10	PZ37 06/15/11	PZ37 03/20/12	PZ37 11/13/12	PZ38 05/18/05	PZ38 11/09/05	PZ38 09/06/07	PZ38 01/03/08	PZ38 02/17/10	PZ38 08/04/10	PZ38 06/14/11	PZ38 03/20/12	PZ38 11/12/12
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	5	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	NA	10 U	10 U	NA	NA	NA	NA	NA
Butylbenzylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	--	ug/L	NA	10 UJ	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
Chrysene	0.002	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	--	ug/L	10 U	NA	NA	NA	NA	NA	NA	NA	9.0 U	9.0 U	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	10 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Fluorene	50	ug/L	10 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	43 U	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Isophorone	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Nitrobenzene	0.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	ug/L	NA	10 U	10 U	NA	NA	NA	NA	NA	47 UJ	NA	10 U	10 U	NA	NA	NA	NA	NA
Phenanthrene	50	ug/L	10 U	10 UJ	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Phenol	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	9.0 U	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	50	ug/L	10 U	10 U	10 U	NA	NA	NA	NA	NA	9.0 U	9.0 U	10 U	10 U	NA	NA	NA	NA	NA
Total PAHs	--	ug/L	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
Inorganics																			
Aluminum	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56.0	20.0 U	NA	NA	655
Lead	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Location ID: Date Collected:	NYSDEC GWQS	Units	PZ37 11/11/05	PZ37 09/05/07	PZ37 01/02/08	PZ37 02/17/10	PZ37 08/03/10	PZ37 06/15/11	PZ37 03/20/12	PZ37 11/13/12	PZ38 05/18/05	PZ38 11/09/05	PZ38 09/06/07	PZ38 01/03/08	PZ38 02/17/10	PZ38 08/04/10	PZ38 06/14/11	PZ38 03/20/12	PZ38 11/12/12
Selenium	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	-	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered																			
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.0 U	20.0 J	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Groundwater Analytical Summary

Site Management Plan
NYSEG - Dansville Former MGP Site - Dansville, New York

Notes:

1. Results are in units of micrograms per liter (ug/L).
2. D - Compound quantitated using a secondary dilution.
3. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
4. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
5. UB - Indicates the constituent was not detected at a concentration less than the PQL due to associated blank contamination.
6. ND - not detected
7. NA - not analyzed
8. R - Indicates the data was rejected.
9. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
10. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
11. - - Indicates a standard or guidance value does not exist for the respective analyte.

Table 3
Monitoring Well, Piezometer, Application Well, and Performance Monitoring Well Construction Summary

Site Management Plan
NYSEG - Dansville Street Former MGP Site - Dansville, New York

Well ID	Installation Date	Northing Coordinate	Easting Coordinate	Ground Surface Elevation	Screen Length	Screened Interval (ft bgs)	Sump Interval (ft bgs)	Measuring Point Elevation	Actual Depth to Bottom (feet TOC)
PZ03	6/21/2004	934733.58*	1385993.14*	684.40	10.00	10-20	NA	684.01	20.00
PZ10	6/24/2004	935205.53*	1385468.74*	678.45	10.00	9-19	NA	678.15	19.00
PZ11	6/24/2004	935207.77*	1385210.53*	677.07	10.00	15.5-25.5	NA	676.63	26.50
PZ12	9/20/2004	935209.09*	1384942.78*	675.90	10.00	16-26	NA	675.51	26.00
PZ13	9/21/2004	934621.42	1385384.69	682.08	10.00	10-20	NA	681.99	20.00
PZ14	9/21/2004	934881.88	1385103.75	678.64	10.00	10-20	NA	678.20	20.00
PZ15	9/21/2004	935025.51*	1385108.65*	676.81	10.00	9.5-19.5	NA	676.51	19.50
PZ16	9/22/2004	934110.39*	1385622.95*	689.24	10.00	10-20	NA	688.89	20.00
PZ17	9/1/2005	934528.52	1385947.86	684.64	10.00	6-16	NA	684.26	16.00
PZ18	9/22/2004	934260.85	1385630.78	687.12	10.00	9-19	NA	686.71	19.00
PZ19	9/1/2005	934411.11	1385434.21	685.72	10.00	8-18	NA	685.15	20.00
PZ21	9/23/2004	935032.38*	1385260.57*	678.22	10.00	11.2-21.2	NA	677.89	21.20
PZ22	9/24/2004	934609.54*	1385255.42*	681.93	10.00	8.25-18.25	NA	681.61	21.50
PZ24	9/27/2004	934847.37	1385392.71	681.46	10.00	10-20	NA	681.18	19.50
PZ25	9/27/2004	934853.91*	1385511.03*	681.07	10.00	12-22	NA	680.87	27.00
PZ26	9/27/2004	935048.12	1385495.11	677.88	10.00	7.5-17.5	NA	677.63	17.50
PZ27	9/28/2004	934053.15	1385827.23	689.59	10.00	6-16	NA	689.07	16.00
PZ28	9/28/2004	934941.78*	1384925.88*	678.10	10.00	12.5-22.5	NA	677.81	22.50
PZ29	10/1/2004	934113.81	1385932.86	689.64	10.00	10-20	NA	689.33	20.00
PZ30	5/10/2005	934032.79*	1385639.26*	688.23	10.00	10-20	NA	687.83	32.00
PZ31	5/10/2005	934563.26	1385795.72	687.38	10.00	12-22	NA	687.14	23.50
PZ32	5/10/2005	934564.25	1385691.42	684.28	10.00	7-17	NA	683.97	20.00
PZ33	5/11/2005	934237.36*	1385961.11*	689.57	10.00	12-22	NA	689.17	26.50
PZ34	5/11/2005	934465.46*	1386025.65*	684.50	10.00	8-18	NA	684.22	20.00
PZ35	5/12/2005	934280.98	1385512.82	686.54	10.00	10-20	NA	686.06	24.00
PZ36	5/12/2005	934469.14	1385859.24	686.94	10.00	9-19	NA	686.60	22.50
PZ37	5/13/2005	934358.88*	1385443.46*	685.60	10.00	8-18	NA	685.25	19.00
PZ38	5/13/2005	934870.30*	1385711.51*	681.50	10.00	9-19	NA	680.80	22.00
MW01S	8/13/1986	934366.46	1386108.45	687.62	23.50	5.0-28.3	NA	687.42	28.30
MW01D	8/15/1986	934365.69	1386118.31	687.55	17.50	62.5-80	NA	687.37	80.00
MW02D	8/19/1986	934136.61	1385723.11	689.48	16.00	70.5-86.5	NA	691.40	86.50
MW04S	12/18/2003	934416.57	1385557.53	686.29	10.00	6.5-16.5	NA	685.86	20.00
MW-1801	10/9/2018	934409.66	1385606.67	686.56	10.00	9-19	19-21	686.22	21.00
MW-1802	12/3/2018	934409.21	1385771.50	688.36	10.00	7-17	17-19	688.02	25.00
MW-1803	12/4/2018	934402.82	1385885.61	687.30	10.00	7-17	17-19	686.96	19.00
MW-1804	12/4/2018	934396.25	1385985.14	686.94	5.00	6-11	11-13	686.61	13.00
MW-1805	12/5/2018	934460.11	1385570.05	686.15	10.00	5-15	15-17	685.80	17.00
MW-1806	12/6/2018	934451.82	1385738.79	687.19	5.00	8-13	13-15	686.87	15.00
MW-1807	12/6/2018	934565.12	1385539.86	683.53	10.00	6-16	16-18	683.16	18.00
MW-1808	12/3/2018	934407.70	1385695.18	686.96	10.00	9-19	19-21	686.61	23.00
MW-1809	12/6/2018	934556.82	1385439.65	682.78	5.00	8-13	13-15	682.49	15.00
MW-1810	10/9/2018	934140.89	1385726.04	689.39	12.00	9-21	21-23	689.03	25.00
NRW-01	5/27/2020	934124.12*	1385767.40*	689.48	9.00	9-18	18-21	688.97	21.00
NRW-02	5/27/2015	934124.14*	1385807.80*	689.29	9.00	12-21	21-24	689.01	24.00
AW-01	7/23/2020	934409.51	1385559.36	686.00	8.00	7.5-15.5	15.5-17.5	685.51	17.03
AW-02	7/24/2020	934404.76	1385572.82	686.07	11.00	7-18	18-20	685.59	19.52
AW-03	7/23/2020	934404.11	1385588.28	686.30	7.00	8-15	15-17	685.83	16.49
AW-04	7/22/2020	934403.95	1385602.97	686.46	7.00	8-15	15-17	686.01	16.48
AW-05	7/22/2020	934403.05	1385618.43	686.56	7.00	8-15	15-17	686.12	16.69
AW-06	7/22/2020	934398.53	1385633.13	686.72	7.00	8-15	15-17	686.20	16.48
AW-07	7/21/2020	934397.84	1385647.76	686.74	7.00	8-15	15-17	686.26	16.45
AW-08	7/21/2020	934397.43	1385662.85	687.08	7.00	8-15	15-17	686.52	16.45
AW-09	7/21/2020	934396.70	1385677.79	687.03	6.00	9-15	15-17	686.57	16.56
AW-10	7/20/2020	934396.01	1385692.75	686.92	7.00	8.5-15.5	15.5-17.5	686.38	16.86
AW-11	7/20/2020	934396.23	1385707.77	687.05	6.00	9.5-15.5	15.5-17.5	686.52	16.20
AW-12	7/17/2020	934395.75	1385723.00	687.57	6.00	9.5-15.5	15.5-17.5	687.09	17.00
AW-13	7/16/2020	934394.66	1385737.83	687.47	7.00	9.5-16.5	16.5-18.5	687.05	18.00
AW-14	7/16/2020	934401.88	1385752.82	687.99	7.00	9.5-16.5	16.5-18.5	687.34	17.95
AW-15	7/15/2020	934401.19	1385768.02	688.09	6.00	9-15	15-17	687.51	16.44
AW-16	7/15/2020	934400.61	1385781.91	688.24	6.00	8.5-14.5	14.5-16.5	687.75	16.19
AW-17	7/14/2020	934400.40	1385796.98	688.23	6.00	8.5-14.5	14.5-16.5	687.69	16.08
AW-18	7/14/2020	934399.87	1385812.29	688.30	6.00	9-15	15-17	687.74	16.22
AW-19	7/14/2020	934399.57	1385827.09	688.34	6.00	9.5-15.5	15.5-17.5	687.73	16.70
AW-20	7/13/2020	934398.58	1385842.44	688.26	7.00	8-15	15-17	687.59	16.50

Table 3
Monitoring Well, Piezometer, Application Well, and Performance Monitoring Well Construction Summary

Site Management Plan
NYSEG - Dansville Street Former MGP Site - Dansville, New York

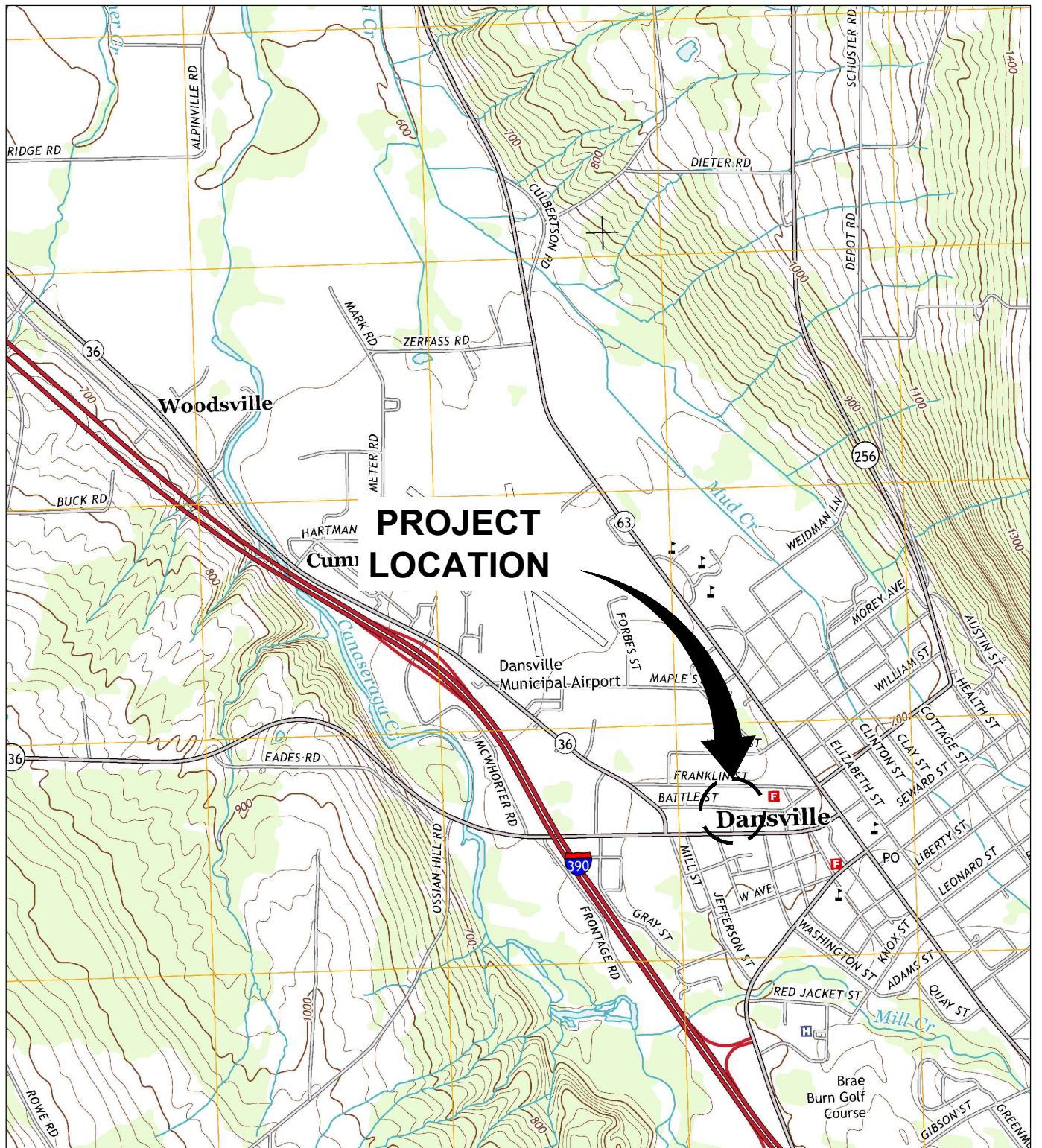
Well ID	Installation Date	Northing Coordinate	Easting Coordinate	Ground Surface Elevation	Screen Length	Screened Interval (ft bgs)	Sump Interval (ft bgs)	Measuring Point Elevation	Actual Depth to Bottom (feet TOC)
AW-21	7/13/2020	934397.62	1385855.67	688.03	7.00	8-15	15-17	687.43	16.40
AW-22	7/10/2020	934396.69	1385871.70	687.61	9.00	9-18	18-20	687.12	19.30
AW-23	7/10/2020	934396.47	1385887.25	687.48	7.00	8-15	15-17	686.86	16.46
AW-24	7/9/2020	934396.62	1385901.88	687.34	7.00	8-15	15-17	686.89	16.50
AW-25	7/7/2020	934391.07	1385916.94	687.33	7.00	7-14	14-16	686.81	15.61
AW-26	7/7/2020	934390.31	1385932.27	687.29	7.00	9.5-16.5	16.5-18.5	686.95	17.94
PMW-01	7/24/2020	934414.63	1385573.56	686.41	10.00	8-18	18-20	685.87	19.65
PMW-02	7/27/2020	934394.98	1385572.92	686.20	9.00	8.5-17.5	17.5-19.5	685.70	19.06
PMW-03	7/16/2020	934403.93	1385737.08	687.80	7.00	9.5-16.5	16.5-18.5	687.40	18.03
PMW-04	7/17/2020	934385.40	1385736.99	687.76	7.00	9.5-16.5	16.5-18.5	687.35	18.15
PMW-05	7/8/2020	934400.44	1385916.23	687.48	7.00	8-15	15-17	687.01	16.65
PMW-06	7/9/2020	934381.79	1385916.90	687.27	7.00	8.5-15.5	15.5-17.5	686.91	17.22

Notes:

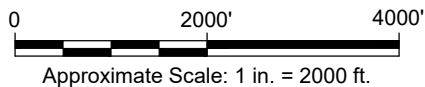
1. Horizontal coordinates are NAD83 New York Western zone and the vertical coordinates are NAVD88.
2. An asterisk indicates coordinates were converted into NAD83 New York Western zone and are approximate.
3. NA - Not available/applicable

FIGURES





REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE., DANSVILLE, N.Y. 2013.



NYSEG
 DANSVILLE FORMER MGP SITE (OU-1 and OU-2)
 DANSVILLE, NEW YORK
SITE MANAGEMENT PLAN

SITE LOCATION MAP



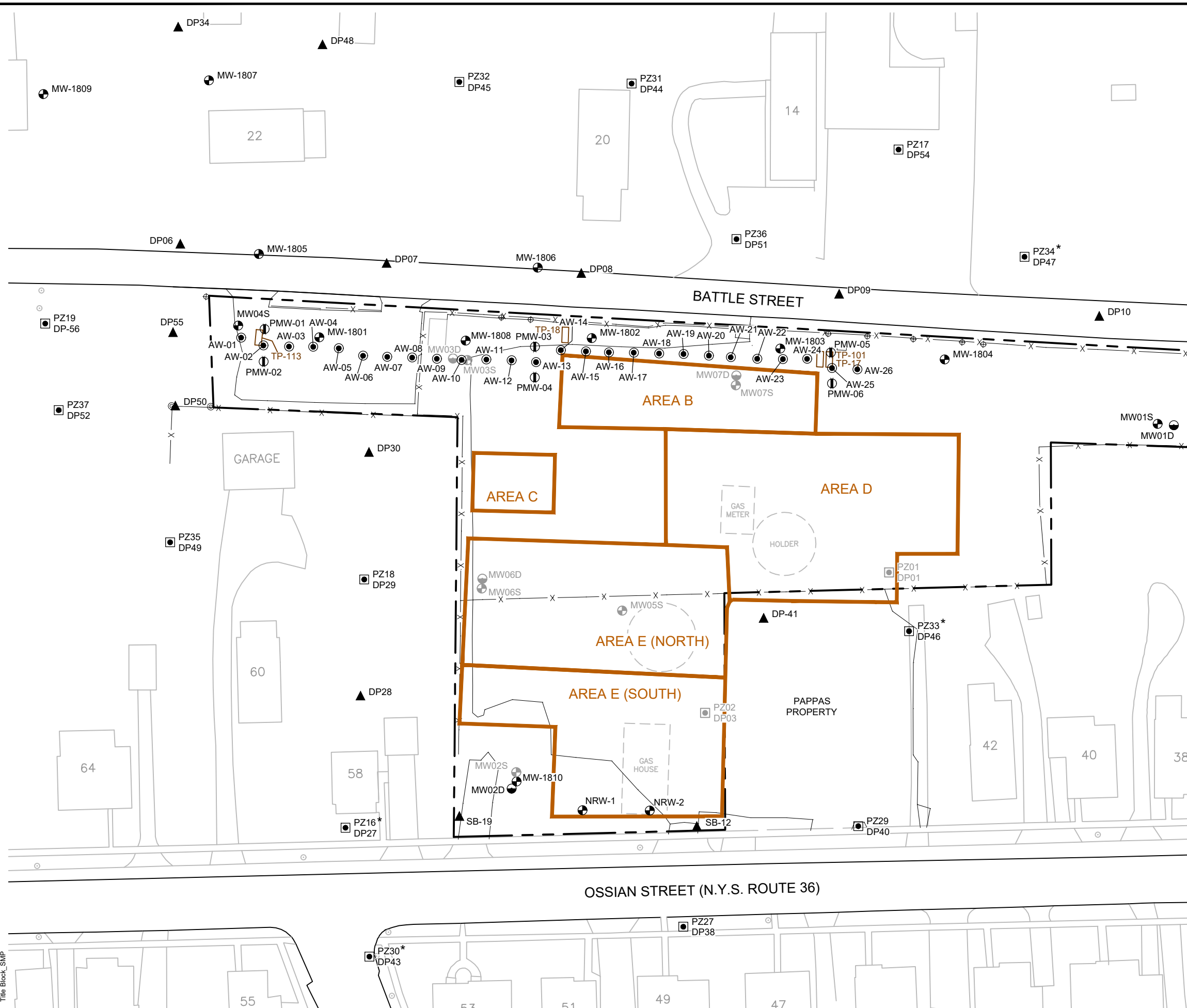
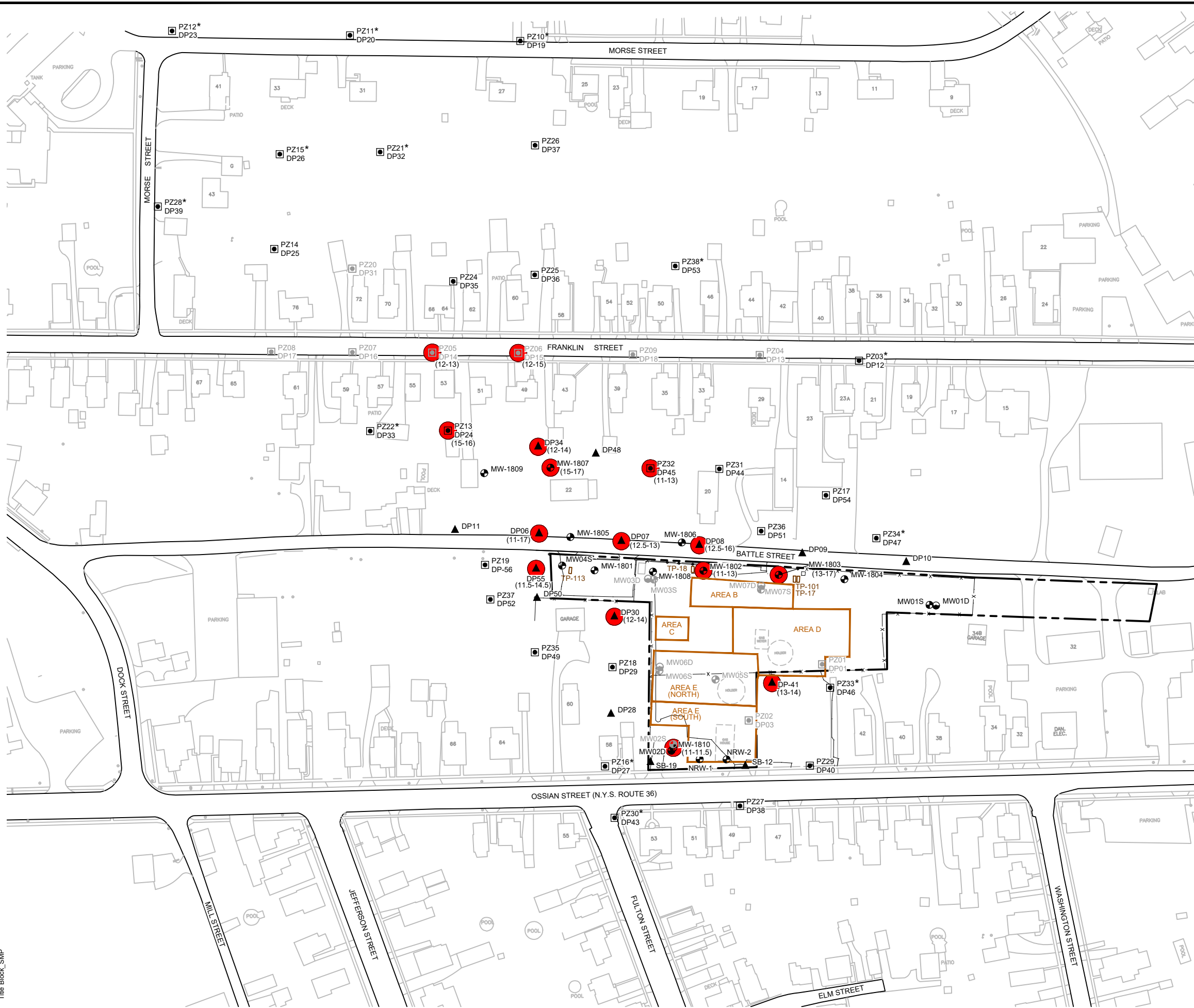


FIGURE
3

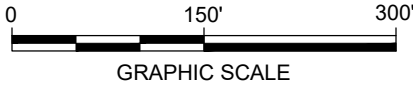


LEGEND:

- HISTORICAL SOIL BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
- SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
- PIEZOMETER LOCATION (GRAY = ABANDONED)
- NYSEG PROPERTY BOUNDARY
- FENCE LINE
- FORMER MGP STRUCTURE
- LIMITS OF OU-1 EXCAVATION
- MGP NAPL OR OIL-LIKE MATERIAL (OLM) OBSERVED
- (12-13) DEPTH OF NAPL OBSERVATION (FEET BELOW GRADE)

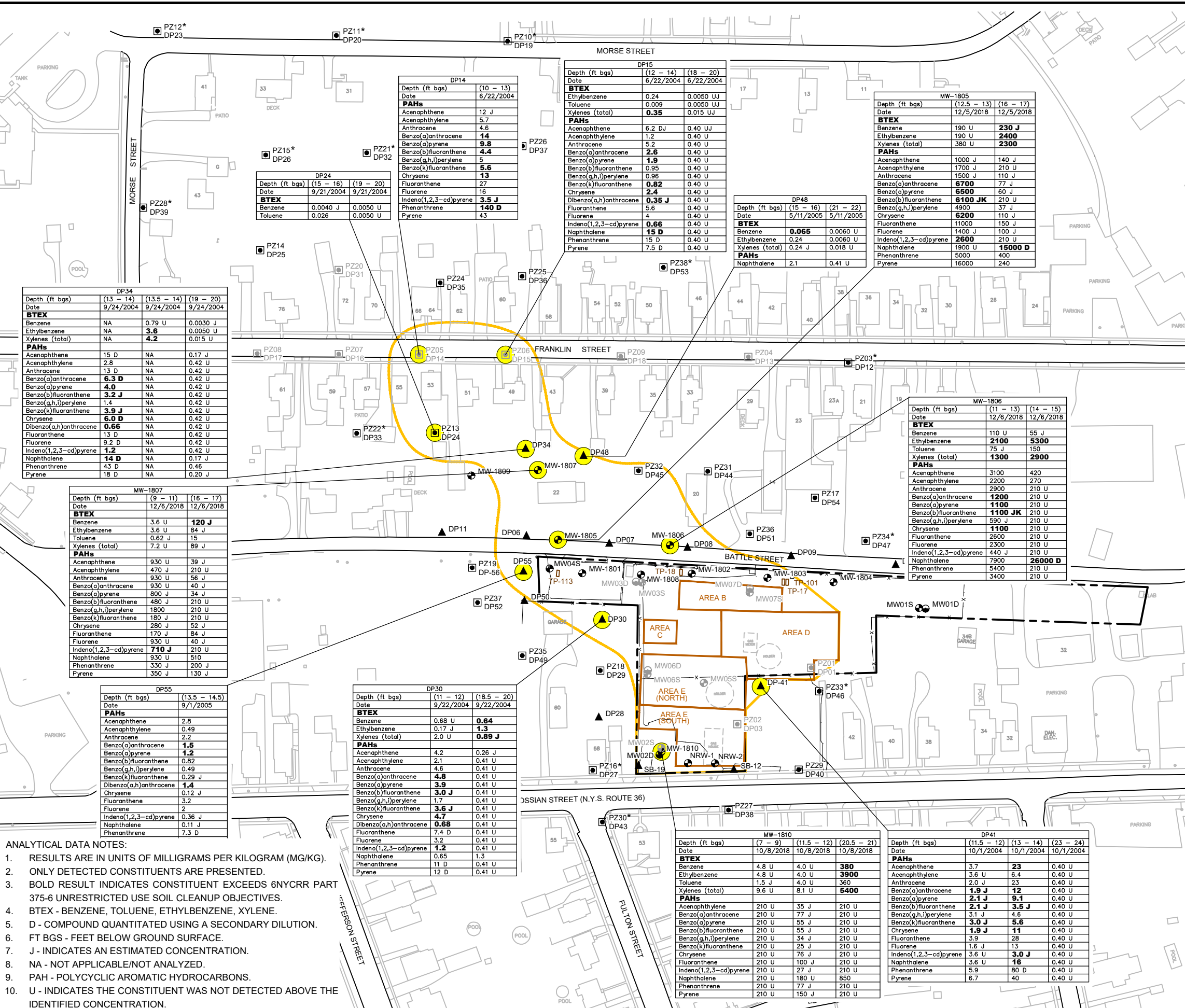
NOTES:

- ALL LOCATIONS ARE APPROXIMATE.
- ONLY SELECT MONITORING WELL, SOIL BORING, PIEZOMETER, AND TEST PIT LOCATIONS ARE SHOWN ON THE NYSEG PROPERTY AS A MAJORITY OF THE LOCATIONS WERE REMEDIATED IN 2014. SEE PREVIOUS SITE REPORTS FOR ADDITIONAL INVESTIGATION LOCATIONS.
- AN ASTERISK (*) INDICATES THE CONDITION AND USABILITY OF THE WELL OR PIEZOMETER IS UNKNOWN. THE LOCATION MAY BE ABANDONED OR DESTROYED.
- BASE MAP PREPARED FROM DWG FILE PROVIDED BY NYSEG, DATED 10/2/2006, TITLED EXPANDED DANSVILLE MGP SITE, AT A SCALE OF 1"=100'.



NYSEG
DANSVILLE FORMER MGP SITE (OU-1 and OU-2)
DANSVILLE, NEW YORK
SITE MANAGEMENT PLAN

**VISUAL OBSERVATIONS
IN SUBSURFACE SOIL**



LEGEND:

- HISTORICAL SOIL BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
- SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
- PIEZOMETER LOCATION (GRAY = ABANDONED)
- NYSEG PROPERTY BOUNDARY
- FENCE LINE
- FORMER MGP STRUCTURE
- LIMITS OF OU-1 EXCAVATION
- LOCATION CONTAINING ONE OR MORE BTEX/PAH COMPOUND AT CONCENTRATIONS GREATER THAN 6NYCRR PART 375-6 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (OU-1 EXCAVATION LIMITS ARE INCLUDED AS POST-EXCAVATION SAMPLING DATA DOES NOT EXIST)

NOTES:

- ALL LOCATIONS ARE APPROXIMATE.
- ONLY SELECT MONITORING WELL, SOIL BORING, PIEZOMETER, AND TEST PIT LOCATIONS ARE SHOWN ON THE NYSEG PROPERTY AS A MAJORITY OF THE LOCATIONS WERE REMEDIATED IN 2014. SEE PREVIOUS SITE REPORTS FOR ADDITIONAL INVESTIGATION LOCATIONS.
- AN ASTERISK (*) INDICATES THAT THE CONDITION AND USABILITY OF THE WELL OR PIEZOMETER IS UNKNOWN. THE LOCATION MAY BE ABANDONED OR DESTROYED.
- BASE MAP PREPARED FROM DWG FILE PROVIDED BY NYSEG, DATED 10/2/2006, TITLED EXPANDED DANSVILLE MGP SITE, AT A SCALE OF 1"=100'.

GRAPHIC SCALE

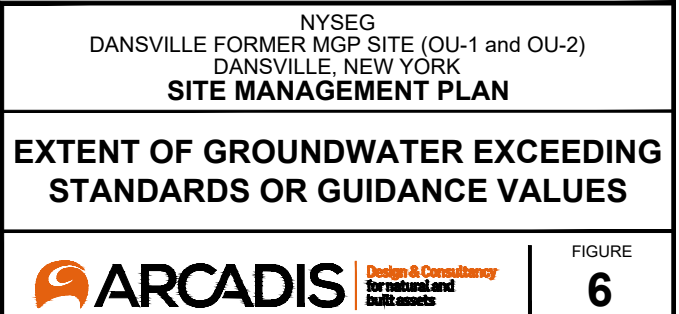
0 150' 300'

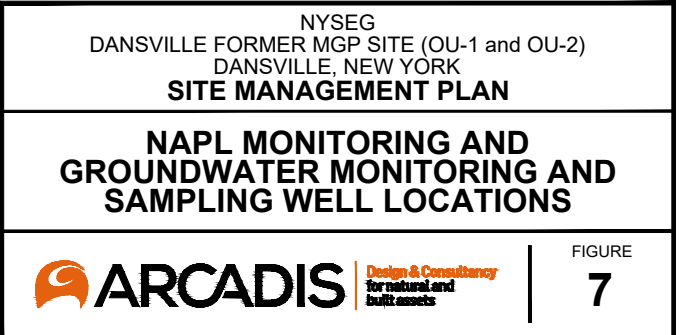
NYSEG
DANSVILLE FORMER MGP SITE (OU-1 and OU-2)
DANSVILLE, NEW YORK
SITE MANAGEMENT PLAN

EXTENT OF SOIL EXCEEDING UNRESTRICTED USE SCOs

ARCADIS Design & Consultancy for natural and built assets

FIGURE
5





APPENDIX A

Environmental Easement



**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 13th day of February, 2020 between Owner(s) New York State Electric & Gas Corporation, having an office at 89 East Avenue, Rochester, New York 14646, County of Monroe, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 50 Ossian Street in the Town of North Dansville, County of Livingston and State of New York, known and designated on the tax map of the County Clerk of Livingston as tax map parcel number: Section 203.6 Block 3 Lot 1, being the same as that property conveyed to Grantor by deeds dated May 5, 1924 and June 22, 1926 and recorded in the Livingston County Clerk's Office on May 8, 1924 and July 23, 1926 in Liber and Page 219/326 and 193/142, respectively. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 2.628 +/- acres, and is hereinafter more fully described in the Land Title Survey dated March 25, 2016 prepared by Rodney Lee Carey, L.L.S. of Keystone Associates Architects, Engineers and Surveyors, LLC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation

established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: D0-000209309, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Livingston County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining

contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

**This property is subject to an Environmental Easement held
by the New York State Department of Environmental Conservation**

pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 826012
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and

communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

New York State Electric & Gas Corporation:

By: [Signature]

Print Name: John J. Ruspantini

Title: Manager Date: _____

By: [Signature] (control)

Print Name: Joseph J. Syta

Title: V.P. Controller Date: 11.14.18
& Treasurer

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF BROOME)

On the 14th day of November, in the year 2018, before me, the undersigned, personally appeared John J. Ruspantini, 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.

[Signature]
Notary Public - State of New York

MARK V. DOLAN
Notary Public, State of New York
No. 02DO4976515
Qualified in Broome County
My commission expires January 14, 2023

STATE OF NEW YORK)
) ss:
COUNTY OF MONROE)

On the 14th day of November, in the year 2018, before me, the undersigned, personally appeared Joseph J. Syta, 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.

[Signature]
Notary Public - State of New York

CHRISTINA K. SARDOU
Notary Public, State of New York
Genesee County
Registration No. 01SA6015061
Commission Expires: October 19, 2022

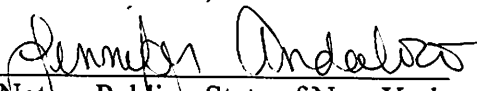
THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: 
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 13th day of February, in the year 2020, before me, the undersigned, personally appeared Michael J. Ryan, 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/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.


Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

**SURVEYOR'S DESCRIPTION
NEW YORK ELECTRIC & GAS CORPORATION
50 OSSIAN STREET
VILLAGE OF DANSVILLE
LIVINGSTON COUNTY, NEW YORK STATE**

ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Dansville, County of Livingston, State of New York, being portions of the property now or formerly of New York State Electric & Gas Corporation, Formerly New York Central Electric Corporation (merged on April 30, 1937) recorded in the Livingston County Clerk's Office and described in the following: L. 193 P. 142 on July 23, 1926 and Liber 219 Page 326 on May 08, 1924 (TM# 203.06-3-1), bounded and described as follows:

BEGINNING at a 1 inch pipe on the northerly boundary of Ossian Street at its intersection with the division line between the property now or formerly of Paula V. Dennison per L. 7769 P. 106 (TM# 203.06-3-17) on the west and said New York State Electric & Gas Corporation on the east, said pipe being easterly, a distance of 730.3 feet from Dock Street;

RUNNING THENCE along the division lines between said Dennison and said New York State Electric & Gas Corporation the following two (2) courses and distances:

- 1) N00°30'19"E, a distance of 254.00 feet to a point;
- 2) N87°41'12"W along the last mentioned division line, passing through an iron at a distance of 69.80 feet and along the division line between the property now or formerly of Michael James Beardsley & Lisa Marie Beardsley per L. 1046 P. 53 (TM# 203.06-3-18.1) on the south and said New York State Electric & Gas Corporation on the north, a total distance of 147.80 feet to a 5/8 inch pipe at its intersection with the division line between another property now or formerly of Michael J. Beardsley & Lisa M. Beardsley per L. 1262 P. 462 (TM# 203.06-3-30.14) on the west and said New York State Electric & Gas Corporation on the east; thence N02°15'39"W along the last mentioned division line, a distance of 67.59 feet to a 5/8 inch rebar at its intersection with the southerly boundary of Battle Street; thence along said Battle Street the following two (2) courses and distances:

- 1) S86°48'03"E, a distance of 644.99 feet to a point;
- 2) S87°54'45"E, a distance of 274.86 feet to a point at its intersection with the division line between the property now or formerly of Gay S. Weaver per L. 871 P. 76 (TM# 203.06-3-7.1) on the east and said New York State Electric & Gas Corporation on the west; thence along the division lines between said Weaver and said New York State Electric & Gas Corporation the following two (2) courses and distances:

- 1) S11°20'27"W, a distance of 57.57 feet to a 3/4 inch pipe;
- 2) N88°01'40"W along the last mentioned division line, passing through a pinched pipe at a distance of 65.72 feet, along the division line between the property now or formerly of Marlow R. Henry & Karen L. Henry per L. 901 P. 163 on the south and said New York State Electric & Gas Corporation on the north, passing through a 3/4 inch pipe at a distance of 166.98, along the division line between the property now or formerly of Matthew R. Crane per L. 924 P. 275 (TM# 203.06-3-10) on the south and said New York State Electric & Gas Corporation on the north, passing through a rebar capped "HUBERTUS # 49471" at a distance of 224.41 feet, along the division line between the property now or formerly of Tammy J. Walker per L. 1123 P. 391 (TM# 203.06-3-11) on the south and said New York State Electric & Gas Corporation on the north, and along the division line between the property now or formerly of Norma Jean Price per L. 1211 P. 330 (TM#

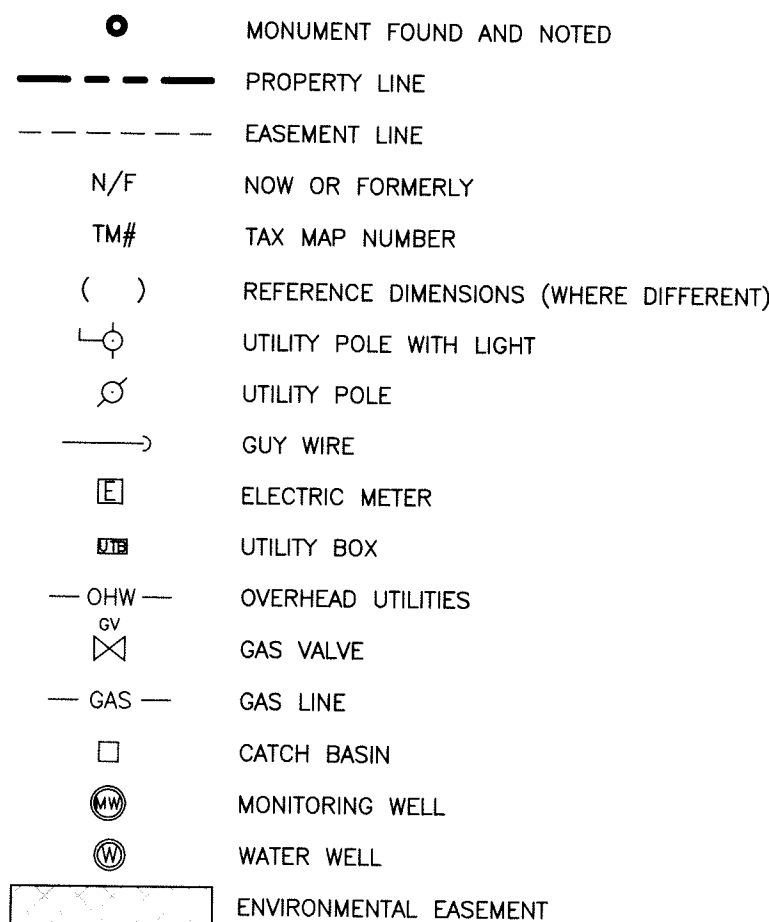
203.06-3-12) on the south and said New York State Electric & Gas Corporation on the north, a total distance of 398.10 feet to a point at its intersection with the division line between said Price on the east and said New York State Electric & Gas Corporation on the west; thence S00°12'31"E along the last mentioned division line, a distance of 86.10 feet to a 1-1/2 inch pipe at its intersection with the division line between the property now or formerly of Joseph C. Piraino & Donna J. Piraino per L. 1253 P. 2569 (TM# 203.06-3-14) on the south and said New York State Electric & Gas Corporation on the north; thence S88°31'33"W along the last mentioned division line, along the division line between the property now or formerly Scott Tracy per L. 1271 P. 71 (TM# 203.06-3-15) on the south and said New York State Electric & Gas Corporation on the north, and along the division line between another property now or formerly of Scott Tracy per L. 1271 P. 71 (TM# 203.06-3-16) on the south and said New York State Electric & Gas Corporation on the north, a distance of 198.00 feet to a point at its intersection with the division line between said Tracy (TM# 203.06-3-16) on the east and said New York State Electric & Gas Corporation on the west; thence S00°11'33"E along the last mentioned division line, a distance of 143.27 feet to a point at its intersection with said northerly boundary of Ossian Street; thence S88°30'19"W along said Ossian Street, a distance of 164.29 feet to the POINT OF BEGINNING.

The above described parcel contains 114,463 square feet or 2.628 acres, more or less.

The above described parcel is subject to any and all easements of record and/or as found in the field.

Bearings are referred to True North at the 78°35' Meridian of West Longitude.

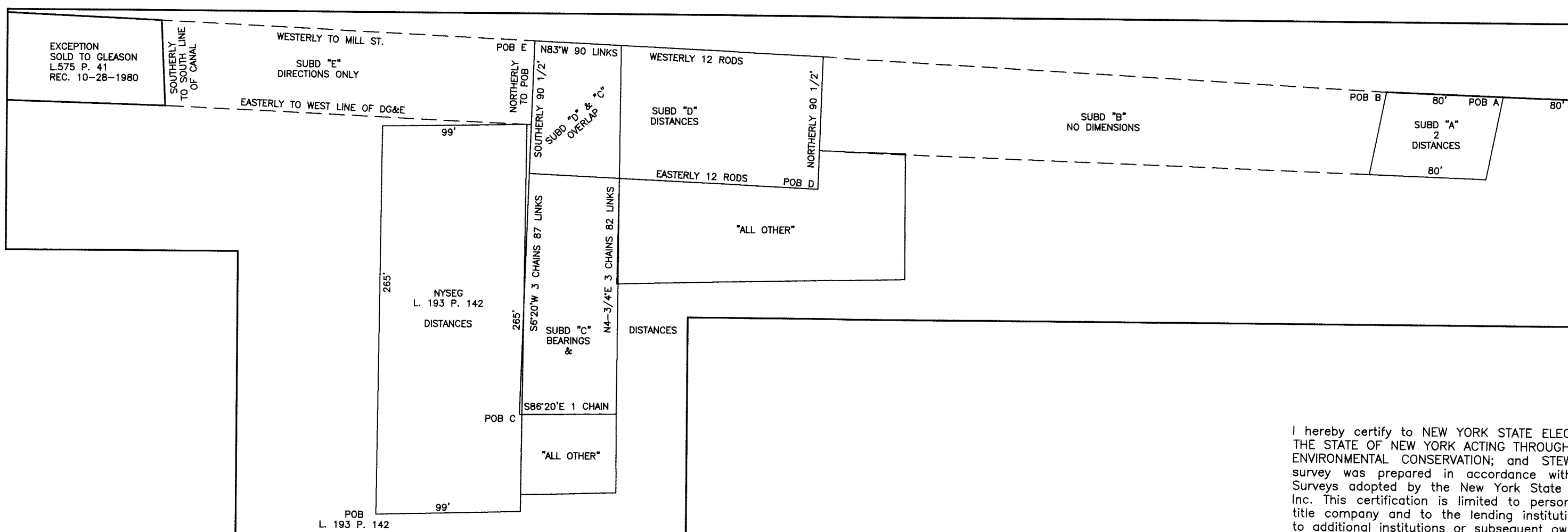
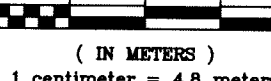
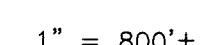
The above described parcel is shown on a map entitled "Environmental Easement Description, Department Site No. 8-26-012, NYSEG Former Dansville MGP Site, 50 Ossian Street, Village of Dansville, Livingston County, New York State" prepared by Keystone Associates Architects, Engineers and Surveyors, LLC as project number 1677.04516, sheet EED-1 dated March 25, 2016.



1. PREMISES SOURCE OF TITLE BEING RECORDED IN THE LIVINGSTON COUNTY CLERK'S OFFICE IN L. 219 P. 326 ON MAY 08, 1924 AND IN L. 193 P. 142 ON JULY 23, 1926.
2. NEW YORK CENTRAL ELECTRIC CORPORATION WAS MERGED INTO NEW YORK STATE ELECTRIC & GAS CORPORATION ON APRIL 30, 1937.
3. SUBJECT TO ANY AND ALL EASEMENTS OF RECORD AND/OR AS FOUND IN THE FIELD.

1. 1866 & 1902 ATLASES.
2. MAP ENTITLED "SURVEY OF PREMISES AT NO. 70, 72 & 74 OSSIAN STREET, VILLAGE OF DANSWILLE, LIVINGSTON COUNTY, NEW YORK" PREPARED BY DOUGLAS A. MCINTOSH ON JUNE 12, 1964.
3. UNTITLED MAP IN L. 463 P. 50 RECORDED OCTOBER 24, 1974.
4. MAP ENTITLED "MAP OF A SURVEY OF LAND TO BE CONVEYED BY NEW YORK STATE ELECTRIC & GAS CORPORATION" PREPARED BY THOMAS F. DUTTON ON NOVEMBER 12, 1979 (REDUCED COPY IN L. 575 P. 43).
5. MAP ENTITLED "MAP OF A SURVEY, PAULA V. DENNISON, VILLAGE OF DANSWILLE, LIVINGSTON COUNTY, NEW YORK" IN L.806 P. 147.
6. MAP ENTITLED "MAP OF A SURVEY OF LAND TO BE CONVEYED BY PAUL & JANIS GASSETT, SITUATE AT OSSIAN STREET, VILLAGE OF DANSWILLE, LIVINGSTON COUNTY, NEW YORK" PREPARED BY GARY L. DUTTON AS PROJECT TO 700-1 ON APRIL 20, 1994 AND REVISED JANUARY 06, 2004.
7. ABSTRACT OF TITLE PREPARED BY STEWART TITLE INSURANCE COMPANY AND DATED FEBRUARY 22, 2016.

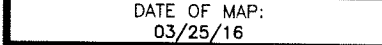
The above described parcel contains 114,463 square feet or 2.628 acres, more or less



I hereby certify to NEW YORK STATE ELECTRIC & GAS CORPORATION; THE PEOPLE OF THE STATE OF NEW YORK ACTING THROUGH ITS COMMISSIONER OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION; AND STEWART TITLE INSURANCE COMPANY that this survey was prepared in accordance with the current Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. This certification is limited to persons for whom this map is prepared, to the title company and to the lending institution listed. Certifications are not transferable to additional institutions or subsequent owners.

DATE OF MAP:

DATE OF MAP:
03/25/16

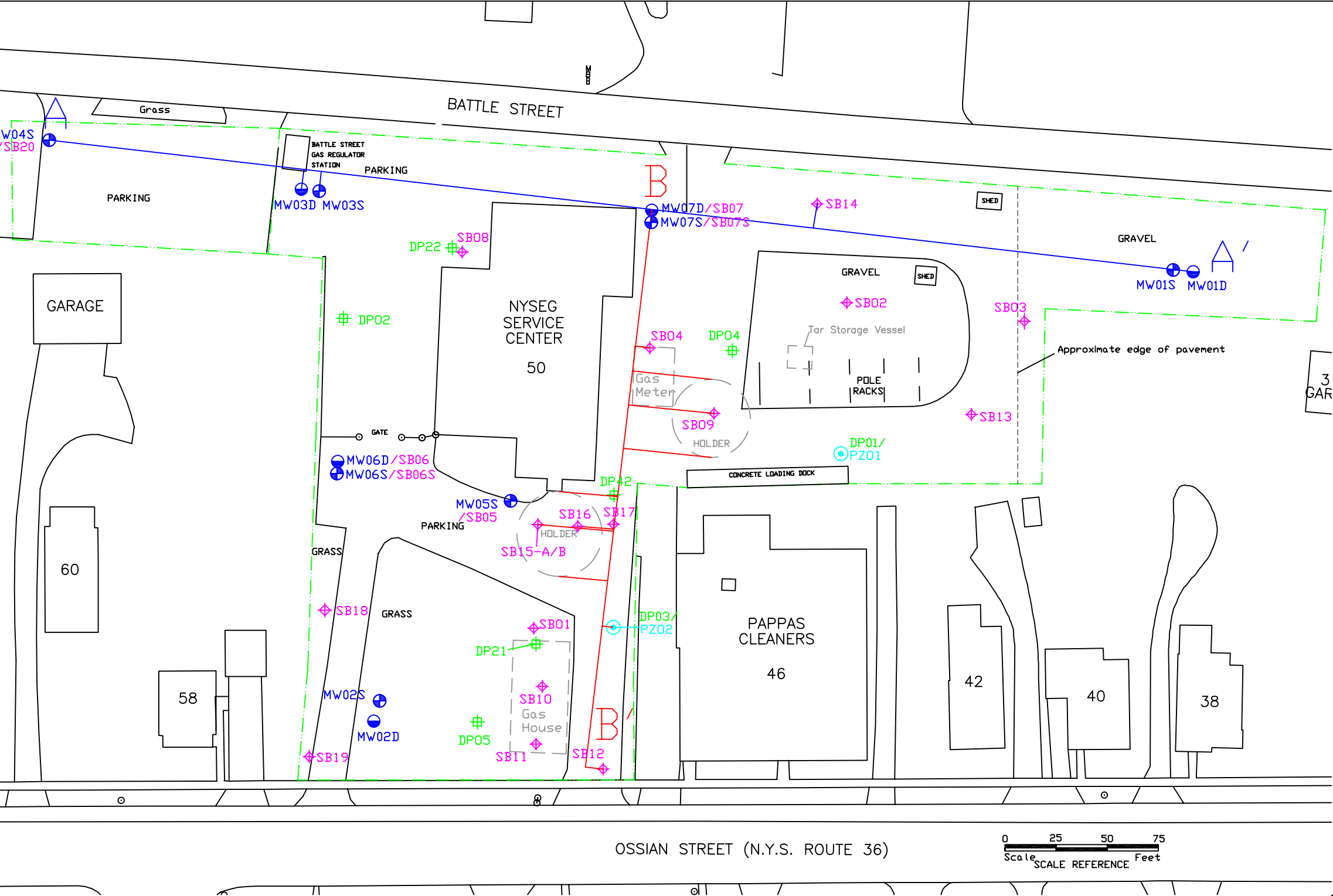


ARCHITECTS, ENGINEERS AND SURVEYORS, LLC

APPENDIX B

Remedial Investigation Figures



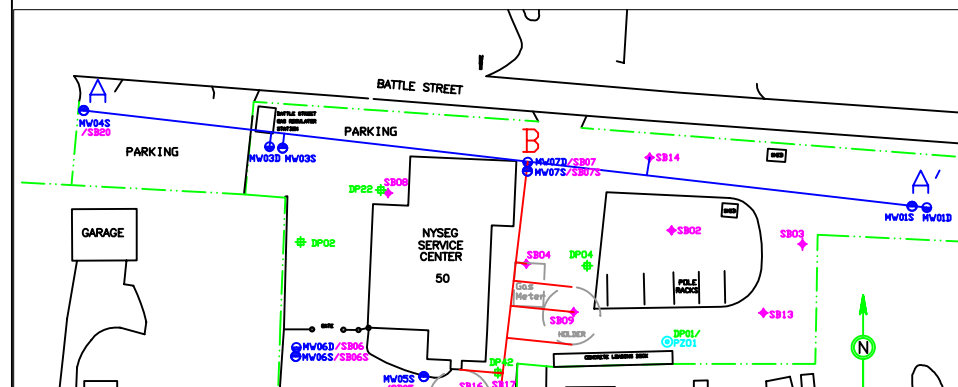
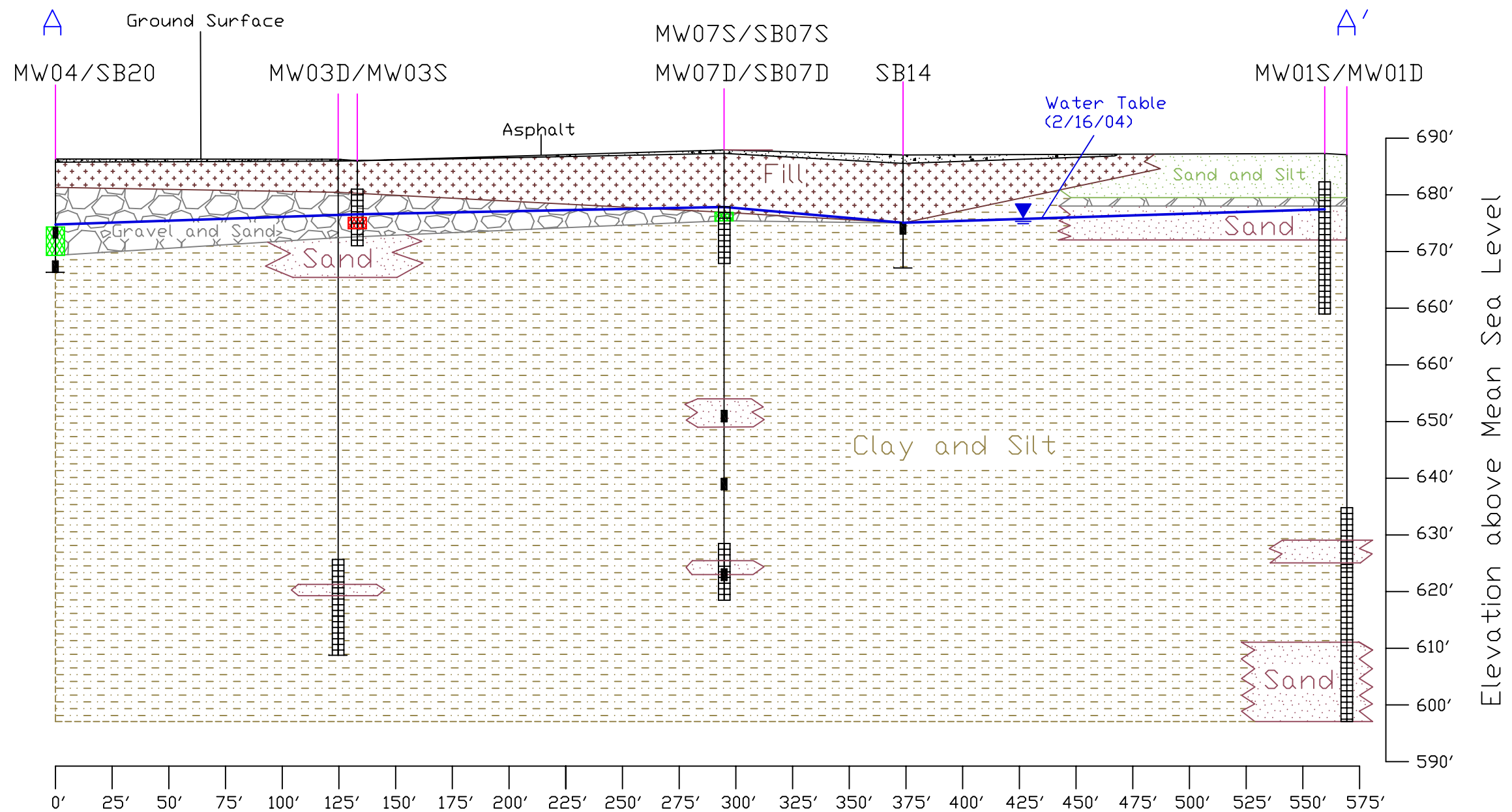


LEGEND

- ◆ SOIL BORING
- ⊕ DIRECT PUSH
- PIEZOMETER
- DEEP MONITORING WELL
- SHALLOW MONITORING WELL
- SURFACE SOIL
- APPROXIMATE SITE BOUNDARY
- FORMER STRUCTURES

Note:
Base map provided by NYSEG surveying department.

Project: DANSVILLE/103023	Client: NYSEG	Ish Inc./META	
Figure A-7 Location of Geologic Cross-sections			
Filename: Dansville SRI	Drawn by: LMG	Approved by: PJD	Date: 1/13/2006



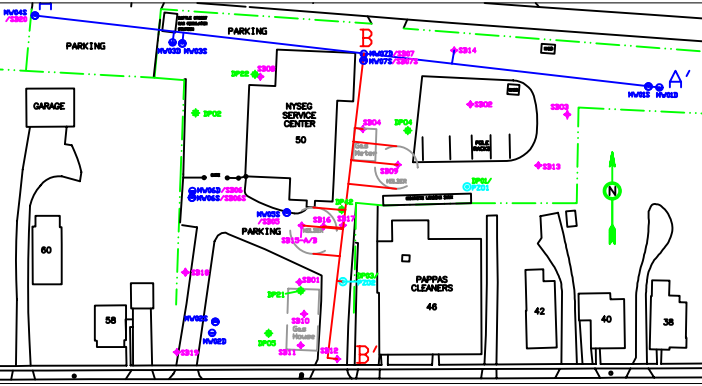
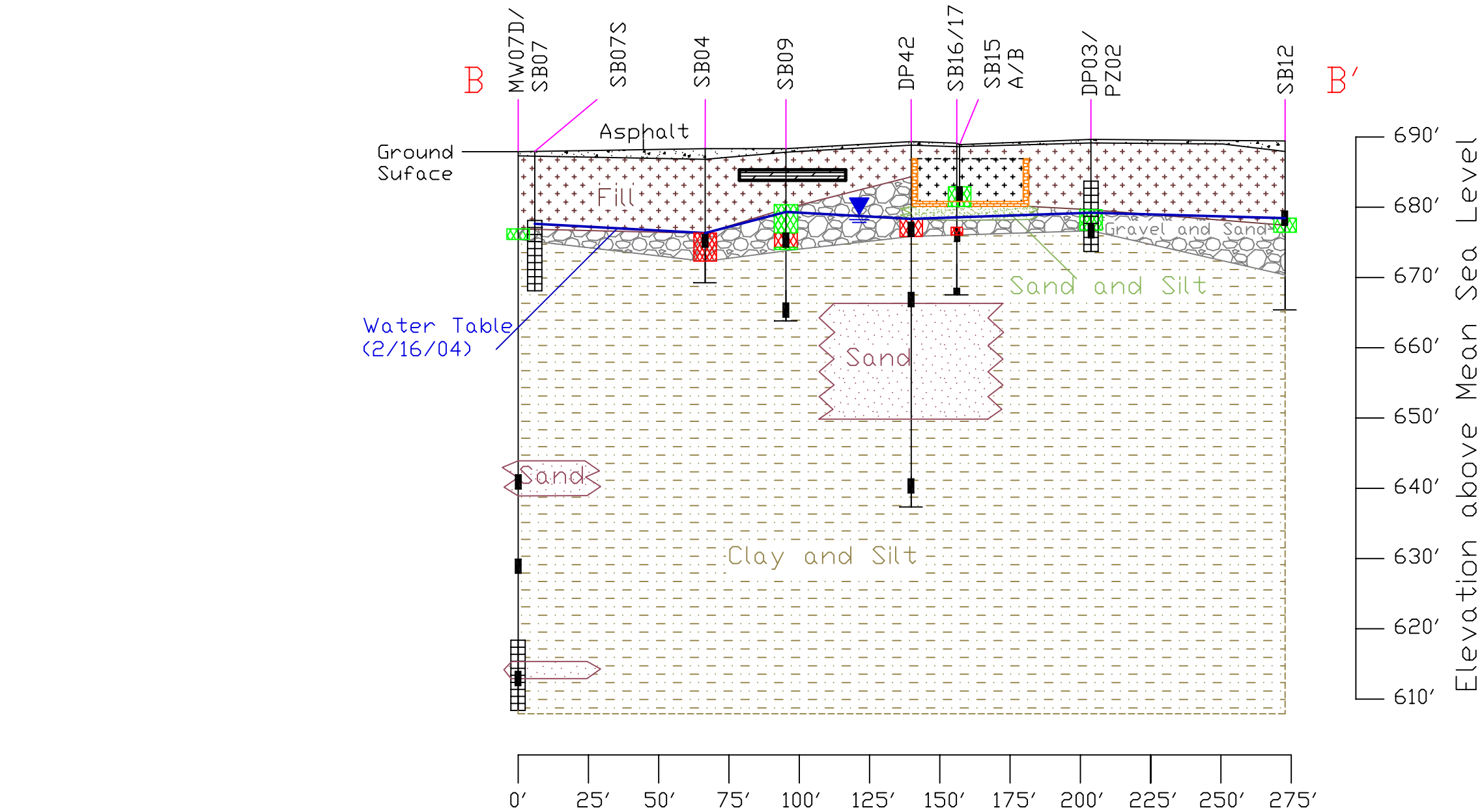
Legend

Well Screen	Sheens in matrix	Asphalt	Gravel and Sand
Bottom of Boring	NAPL in matrix	Fill	Sand
Soil Sample		Sand and Silt	Clay and Silt

Note:

Observations of NAPL and sheens are from this SRI except at MW03S, where observations were made in 1986 by TRC.

Project: DANSVILLE/I03023	Client: NYSEG	Ish Inc./META	
Figure A-8 Geologic Cross-Section A-A'			
Filename: CROSSSECTIONA	Drawn by: AJB	Approved by: PJD	Date: 1/13/2006



Legend

Former holder slab

Well Screen

Bottom of Boring

Soil Sample

Former subsurface holder foundation

Sheens in matrix

NAPL in matrix

Asphalt

Fill

Sand and Silt

Gravel and Sand

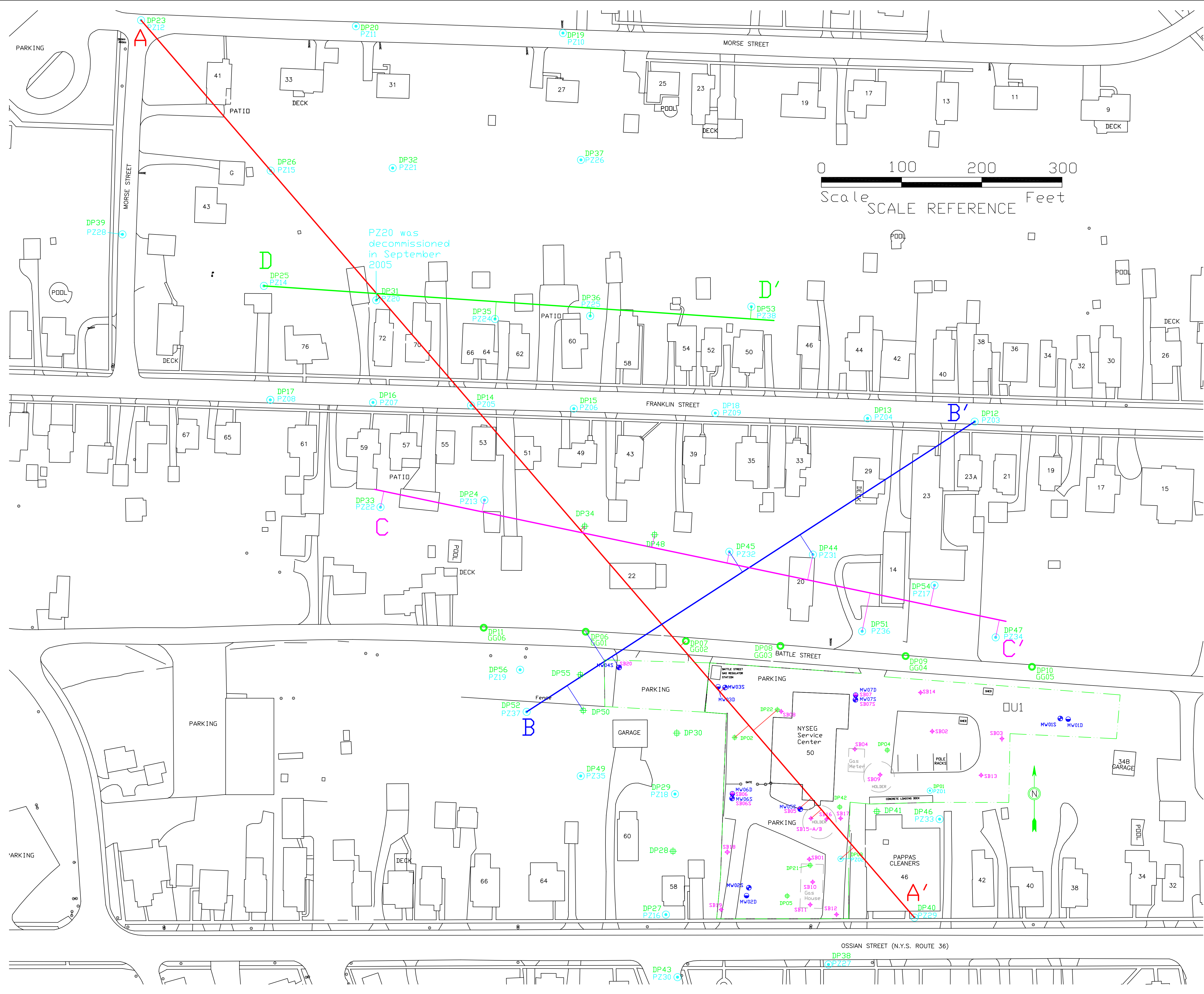
Sand

Clay and Silt

Note:

Observations of NAPL and sheens are from this SRI.

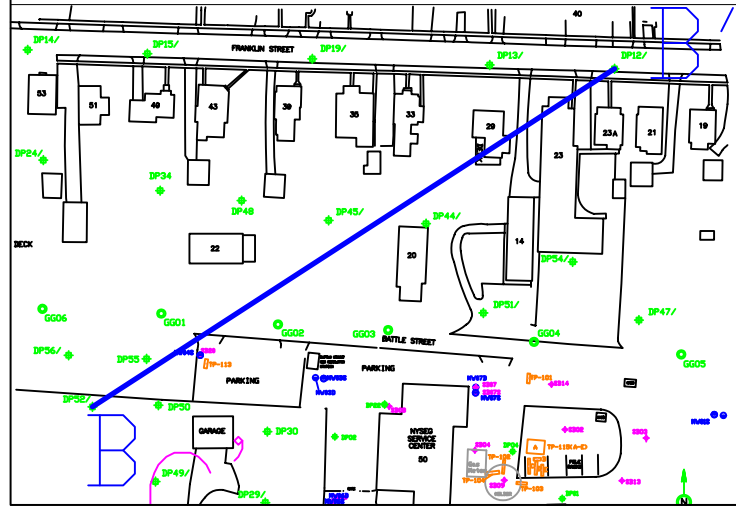
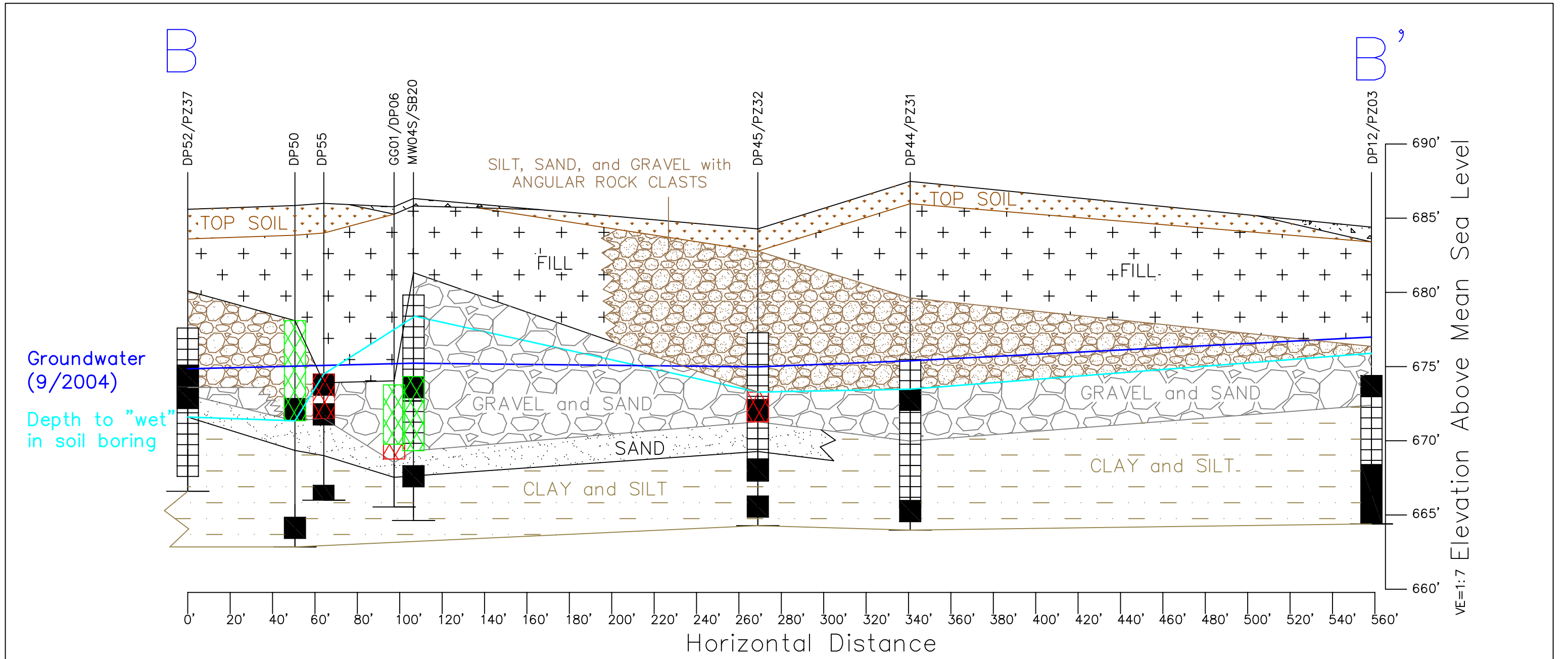
Project: DANSVILLE/I03023	Client: NYSEG	Ish Inc./META	
Figure A-9 Geologic Cross Section B-B'			
Filename: CROSSSECTIONB	Drawn by: AJB	Approved by: PJD	Date: 1/13/2006



LEGEND

- Soil Boring
- Direct Push
- Deep Monitoring Well
- Shallow Monitoring Well
- Piezometer
- Groundwater Grab

Project: DANSVILLE/103023	Client: NYSEG	Ish Inc./META	
Figure A-7 Location of Geologic Cross Sections			
Filename: Copy of mgp-exp	Drawn by: LMG	Approved by: PJD	Date: 5/5/2006



Well Screen

Bottom of Boring

Soil Sample

Sheens in matrix

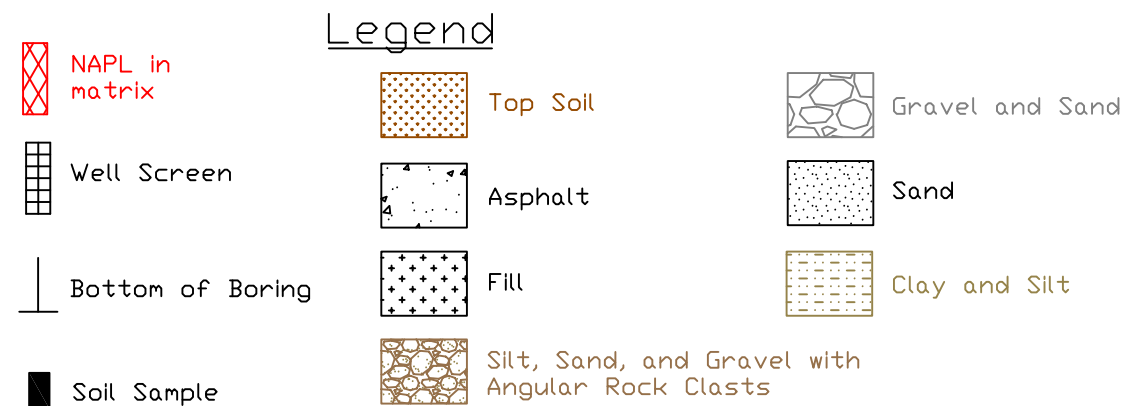
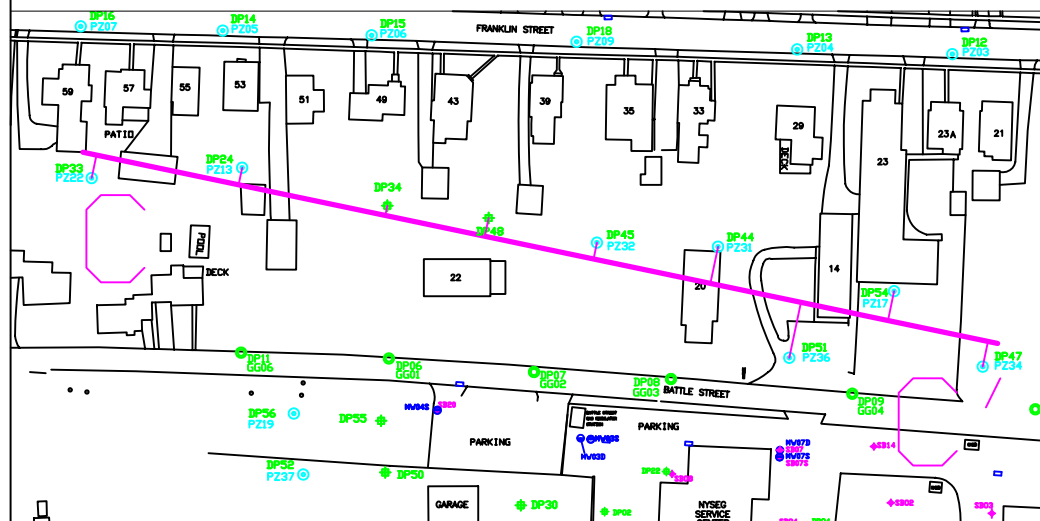
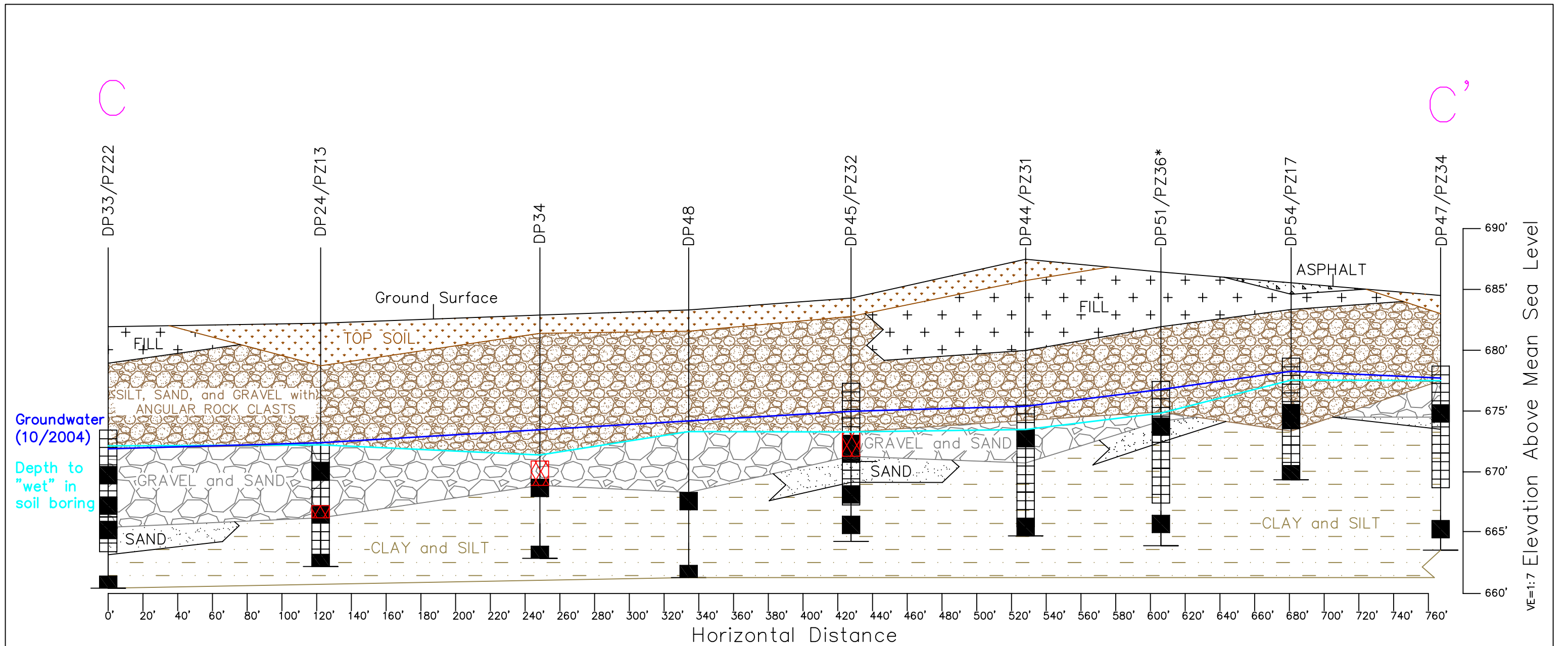
NAPL in matrix

Legend

- Top Soil
- Asphalt
- Fill
- Gravel and Sand
- Sand
- Clay and Silt
- Silt, Sand, and Gravel with Angular Rock Clasts

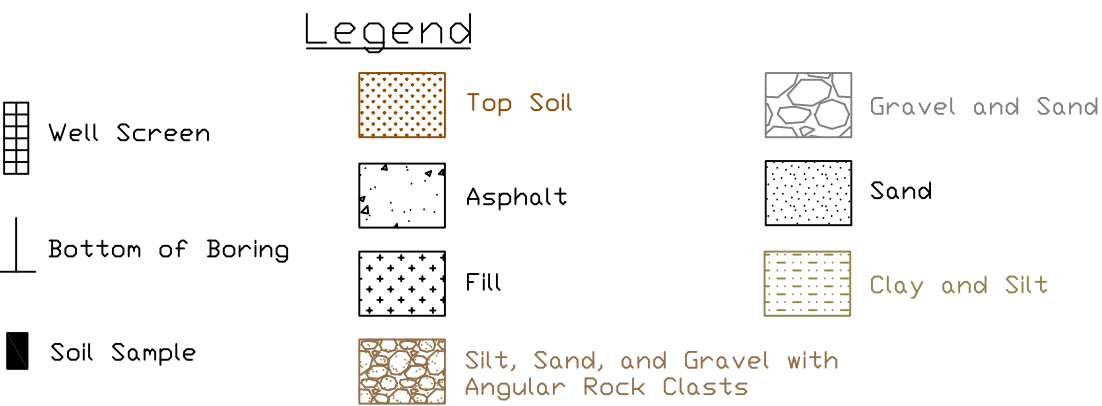
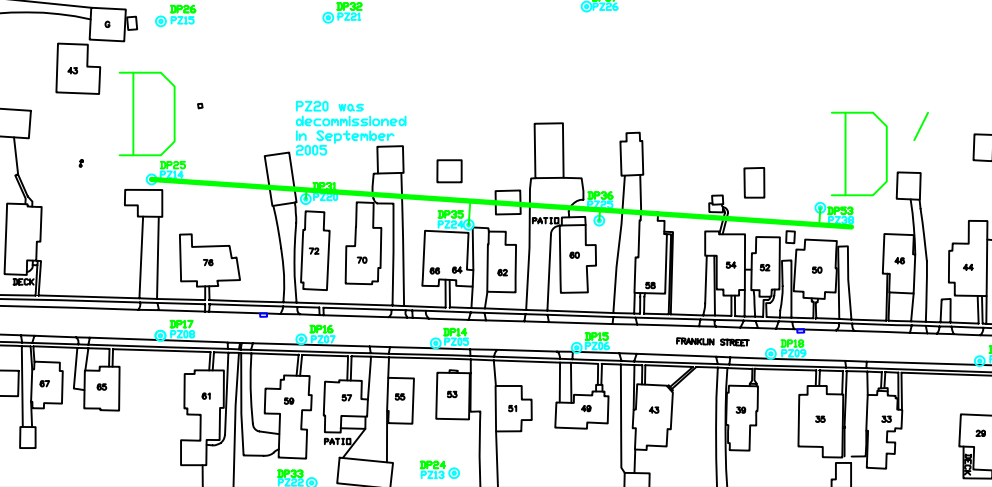
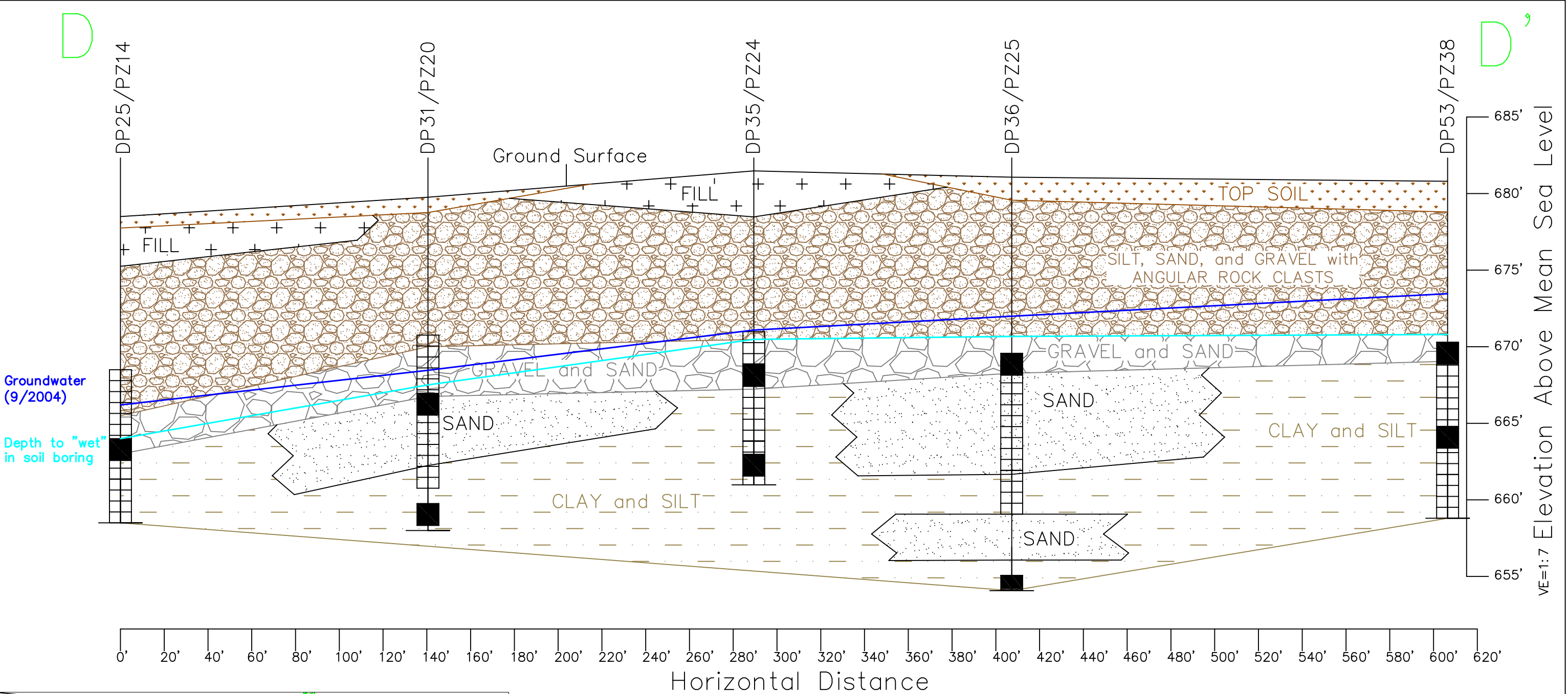
Note:
Observations of NAPL and sheens are from this SRI.

Project: DANSVILLE/103023	Client: NYSEG	Ish Inc./META
Figure A-9 Geologic Cross-Section B-B'		
Filename: Cross Section	Drawn by: AJB	Approved by: PJD
		Date: 5/5/2006



Note:
 Observations of NAPL are from this SRI.
 *NAPL observed during groundwater development and sampling.

Project: DANSVILLE/103023	Client: NYSEG	Ish Inc./META
Figure A-10 Geologic Cross-Section C-C'		
Filename: Cross Section	Drawn by: AJB	Approved by: PJD
Date: 5/5/2006		



Note:
Observations of NAPL are from this SRI.

Project: DANSVILLE/103023	Client: NYSEG	Ish Inc./META
Figure A-11 Geologic Cross-Section D-D'		
Filename: Cross Section	Drawn by: AJB	Approved by: PJD
		Date: 5/5/2006

APPENDIX C

Excavation Work Plan

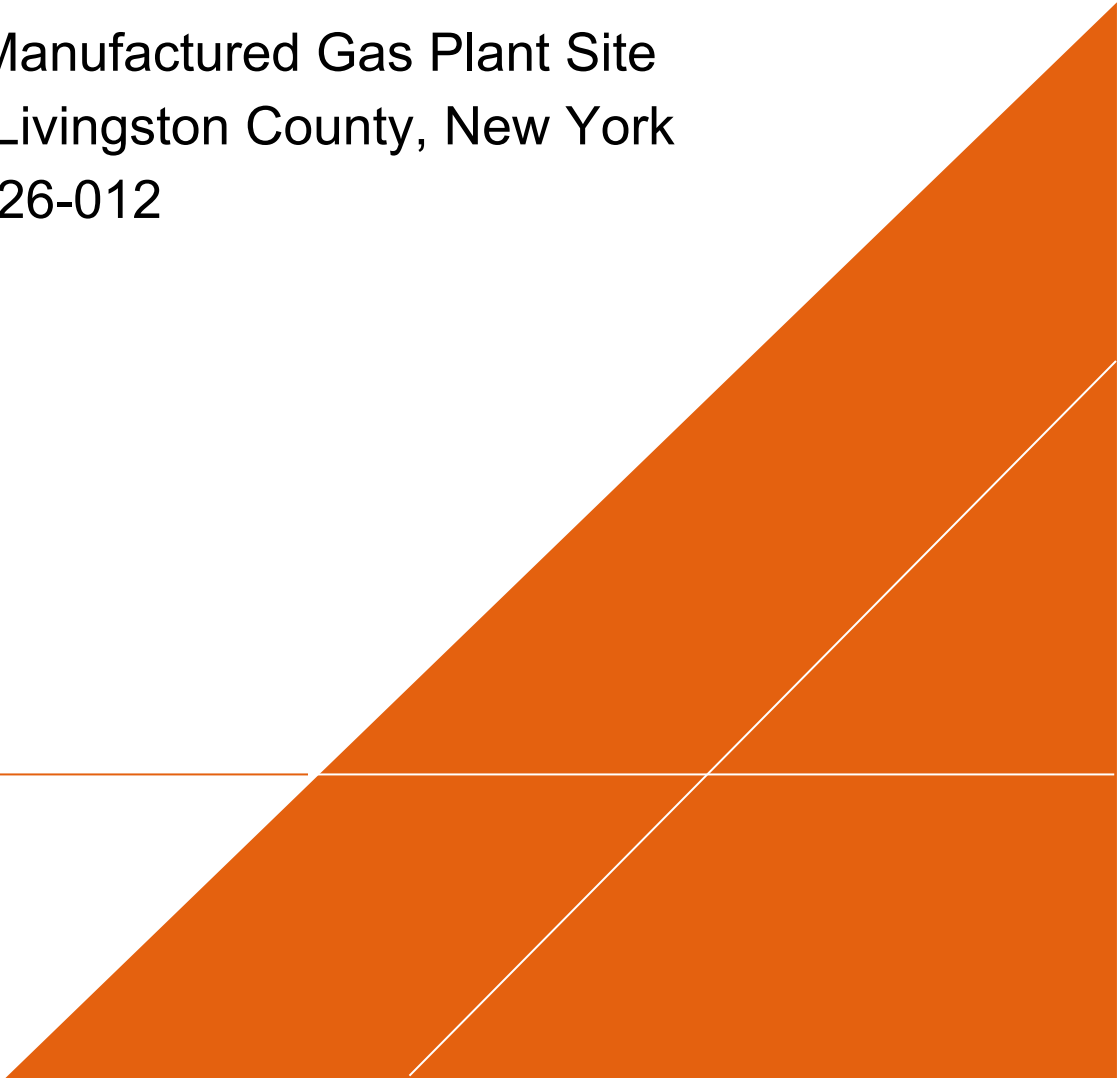


NYSEG

EXCAVATION WORK PLAN

Dansville Manufactured Gas Plant Site
Dansville, Livingston County, New York
Site No. 8-26-012

November 2022

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a complex, angular form that extends from the bottom edge towards the top right corner.

EXCAVATION WORK PLAN

Dansville Manufactured Gas Plant Site

Prepared for:

NYSEG

Prepared by:

Arcadis of New York, Inc.

One Lincoln Center

110 West Fayette Street

Suite 300

Syracuse

New York 13202

Tel 315 446 9120

Fax 315 449 0017

Our Ref:

30003495

Date:

November 2022

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3 Soil Staging Methods	2
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EXECUTIVE SUMMARY

This Excavation Work Plan (EWP) has been prepared as an appendix to the November 2020 Site Management Plan (SMP) for the NYSEG Dansville Former Manufactured Gas Plant (MGP) Site located in Dansville, New York. After completion of the remedial work for the Site, some residual MGP byproducts remain, which are hereafter referred to as “remaining impacts”, on the Site (i.e. including on both the NYSEG-owned property and non-NYSEG owned properties).

This EWP was prepared to manage disturbance of remaining impacts within the Site, until the Environmental Easement for the for the NYSEG-owned portion of the Site is extinguished in accordance with the Environmental Conservation Law (ECL) Article 71, Title 36. Although this EWP is not directly applicable to the land outside of the property controlled by the Environmental Easement, this EWP is potentially relevant and appropriate guidance for any activity by any party that breaches, penetrates, temporarily removes the cover, or otherwise disturbs the potentially remaining impacts in non-NYSEG-owned portions of the Site.

The EMP outlines the procedures required to be implemented in the event that the cover system is breached, penetrated, or temporarily removed, and any underlying remaining impacts are disturbed. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) provided in SMP as Appendices G and H, respectively.

The Environmental Easement for the NYSEG-owned portion of the Site granted by the NYSDEC requires compliance with this EMP and all ECs and ICs placed on the Site.

1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining impacts in the Site, NYSEG (and/or the property owner) or their representative will notify the NYSDEC Project Manager (contact information is provided below). The contact information provided below will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Section 1.3 of the SMP.

Micheal Squire
NYSDEC, Division of Environmental Remediation
Remedial Bureau C
12th Floor 625 Broadway
Albany, New York 12233-7014
518.402.9662
michael.squire@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for re-grading, intrusive elements or utilities to be installed below the cover, estimated volumes of remaining impacted soil to be excavated and any work that may impact an engineering control.
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of constituents of concern, potential presence of grossly impacted media, and plans for any pre-construction sampling.
- A schedule for the work, detailing the start and completion of all intrusive work.
- A summary of the applicable components of this EMP.
- A statement that the work will be performed in compliance with this EMP and 29 CFR 1910.120.
- A copy of the contractor's HASP, in electronic format, if it differs from the HASP provided in Appendix D of the SMP.
- Identification of disposal facilities for potential waste streams.
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

2 SOIL SCREENING METHODS

Prior to starting any excavation at the Site, the planned excavation activities will be evaluated by NYSEG, in consultation with its qualified environmental professional, to evaluate whether the proposed excavation will occur in areas known to contain remaining impacts and/or areas which have the potential to contain remaining impacts. NYSEG's qualified environmental professional will observe all proposed ground-

EXCAVATION WORK PLAN

intrusive activity if the excavation likely will encounter, or holds the potential to encounter, materials containing remaining impacts.

Simple excavations may only require compliance with a portion of the EWP. For example, excavation of a small volume of soil from above the water table that is directly loaded for off-site disposal would not require the stockpiling or fluids management provisions of this template.

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by NYSEG's qualified environmental professional during all excavations into known or potentially impacted material (remaining impacts). Soil screening will be performed when invasive work is conducted and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the certificate of completion (COC).

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided in Section 7 of this EMP.

3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters, and other discharge points. Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected, and damaged tarp covers will be promptly replaced. Stockpiles will be inspected by NYSEG's qualified environmental professional at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained on-site during active work and available for inspection by the NYSDEC.

4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material if the excavation likely will encounter, or holds the potential to encounter, materials containing remaining impacts. NYSEG, its qualified environmental professional, and the contractors are responsible for safe execution of all invasive and other work performed under this EWP.

The presence of utilities and easements will be investigated by NYSEG's qualified environmental professional, the owner of the property to be excavated, and if applicable, the contractors. It will be determined whether a risk or impediment to the planned work under the SMP is posed by utilities or easements.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements). A truck wash will be operated on-site, as appropriate. Following the truck wash, NYSEG's qualified environmental professional will inspect the cleanliness of outbound trucks carrying materials containing remaining

impacts before leaving the Site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking. NYSEG's qualified environmental professional will be responsible for inspecting that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed by the contractor as needed to maintain a clean condition with respect to site-derived materials.

5 MATERIALS TRANSPORTED OFF-SITE

All transportation of materials containing remaining impacts will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Materials transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows:

- For destinations located to the north (from the NYSEG property):
 - Turn right (west) onto Ossian Street
 - Turn right (north) onto Dock Street
 - Continue north on Franklin Street
 - Turn left (west) onto Commerce Drive
 - Turn right (north) onto I-390N
- For destinations located to the south (from the NYSEG property):
 - Turn right (west) onto Ossian Street
 - Turn right (north) onto Dock Street
 - Continue north on Franklin Street
 - Turn left (west) onto Commerce Drive
 - Turn left (south) onto I-390S

All trucks loaded with site materials will exit the vicinity of the Site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during remediation and development. Alternative truck routes should be approved by the NYSDEC Project Manager prior to use.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Queuing outside of the Site will be prohibited. Trucks will be prohibited from stopping and idling in the adjacent neighborhood.

6 MATERIALS DISPOSED OF OFF-SITE

All material excavated and removed from the Site, will be considered impacted and regulated material unless chemical analytical testing indicates otherwise (i.e., either historical data/information of pre-excavation waste characterization completed prior to removal). If this material is not reused in accordance with Section 7, it will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. Characterization sampling will be performed, as needed, per the disposal facility's requirements. Unregulated off-site management of materials from the Site will not occur without formal NYSDEC approval.

Off-site treatment and/or disposal locations for excavated materials will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate (i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, construction and demolition [C&D] recycling facility, etc.). Actual disposal quantities and associated documentation will be reported to the NYSDEC in a summary report to be prepared at the completion of work by the qualified environmental professional and in the Periodic Review Report. As needed, this documentation will include waste profiles; test results; facility acceptance letters; manifests; bills of lading and facility receipts.

Non-hazardous historic fill and impacted soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet unrestricted soil cleanup objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

7 MATERIALS REUSED ON-SITE

Excavated material located above potentially impacted material (i.e., existing clean fill or imported used as backfill during remedial construction) can be reused for on-site fill. Excavated soil/fill from any potentially impacted area that is free of visible tar or oil, sheens, and/or obvious odors will be considered potentially suitable for on-site reuse. Material potentially suitable for on-site reuse shall be placed on polyethylene sheeting in stockpiles (managed in accordance with Section 3).

Stockpiled potentially reusable material will be sampled and analyzed to verify the material can be replaced beneath cover materials, or must be transported for off-site disposal. The qualified environmental professional will collect one composite sample will be collected for each 250 cubic-yards or as required by the disposal facility. Sample collection and analysis shall be completed in accordance with the Field Sampling Plan and Quality Assurance Plan included in the SMP as Appendices F and G, respectively.

Material suitable for reuse on the NYSEG-owned portion of the Site must meet the site-specific reuse criteria specified in the OU-1 ROD:

- Total polycyclic aromatic hydrocarbon (PAH) concentrations less than 1,000 milligrams per kilogram (mg/kg)
- Total benzene, toluene, ethylbenzene and xylene (BTEX) concentrations less than 10 mg/kg

EXCAVATION WORK PLAN

Material suitable for reuse at non-NYSEG-owned properties must meet unrestricted use SCOs presented in 6 NYCRR Part 375-6.8(a), unless otherwise approved by NYSDEC.

The qualified environmental professional will observe that procedures defined for materials reuse in this EWP are followed and that unacceptable material does not remain on-site. Materials, including historic fill and impacted soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing will not be reused on-site.

8 FLUIDS MANAGEMENT

Efforts shall be made to minimize the amount of water that could enter an excavation (e.g., installing a berm around the excavation or covering the excavation to prevent runoff from entering during precipitation). Water accumulated in excavations shall be pumped out during or after precipitation events (as appropriate), containerized, characterized, and appropriately disposed.

All liquids to be removed from the Site (including but not limited to; excavation dewatering; decontamination waters; and groundwater monitoring well purge and development waters) will be handled, transported, and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge, and development fluids will not be recharged back to the land surface or subsurface of the Site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a State Pollutant Discharge Elimination System (SPDES) permit.

9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities at the Site, the cover system will be restored in a manner that complies with the OU-1 ROD.

The existing on-site cover system on the NYSEG property is comprised of geotextile demarcation layer, and either a minimum of 12 inches of gravel or 4 inches of vegetated topsoil. The demarcation layer will be replaced to provide a visual reference to the top of the remaining potentially impacted material that requires adherence to special conditions for disturbance as defined in the SMP.

If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification to: (1) the cover element of the remedy; and (2) the upper surface of the potentially remaining impacted material. A figure showing the modified surface will be included in the summary report issued at the completion of work and the subsequent Periodic Review Report and in an updated SMP.

10 BACKFILL FROM OFF-SITE SOURCES

Off-site soil sources from outside the Site will be documented as having originated from locations having no evidence of disposal or release of hazardous, toxic, or radioactive substances, wastes, or petroleum products. Off-site borrow soil also cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-1.2(a). If an off-site source is designated as “virgin” soil, it will be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use. Soil brought on-site must at a minimum meet the lower of either the commercial use (for the NYSEG property) / unrestructured use (for non-NYSEG-owned property) SCOs or the protection of groundwater values presented in 6 NYCRR Part 375-6.8(b) for subsurface fill or the soil cover layer. At least one sample from each backfill source will be required, with a sampling frequency as follows:

- For material being imported from a virgin mine/pit, one representative characterization sample will be required for each backfill type to be obtained from the mine/pit.
- For material sources other than a virgin mine/pit, characterization samples will be required for each backfill type to be obtained from the mine/pit. The characterization sampling frequency will be in accordance with DER-10 Section 5.4(e).

A characterization sample includes: (1) one composite sample analyzed for polychlorinated biphenyls (PCBs), Target Compound List (TCL) pesticides, TCL semi-volatile organic compounds (SVOCs), and Target Analyte List (TAL) inorganic constituents (including cyanide); and (2) one discrete sample analyzed for TCL volatile organic compounds (VOCs) and emerging contaminants.

Material brought on-site that contains less than 10% by weight passing through a size 80 sieve is exempt from characterization sampling per DER-10 Section 5.4(e)5.

All materials proposed for import to the Site will be arranged for by the qualified environmental professional and approved by the NYSDEC Project Manager and will be in compliance with provisions in this EWP prior to receipt at the Site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC Project Manager allowing a minimum of 5 business days for review and approval.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially impacted sites will not be imported to the Site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the urban land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards for the Site are the unrestricted use or commercial use SCOs and the protection of groundwater SCOs per Appendix 5 of Division of Environmental Remediation (DER) DER-10 Technical Guidance for Site Investigation and Remediation (DER-10). Soil that meets ‘exempt’ fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for the Site, will not be imported to the Site without prior approval by NYSDEC. Solid waste will not be imported.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

11 STORM WATER POLLUTION PREVENTION

For construction projects less than 1 acre, the following procedures for stormwater pollution prevention can be followed. For construction projects exceeding 1 acre, a Stormwater Pollution Prevention Plan (SWPPP) that conforms to the requirements of the NYSDEC Division of Water guidelines and NYS regulations is required.

Barriers and hay bale checks will be installed by the contractor and inspected by the qualified environmental professional once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained on-site during active site work and available for inspection by the NYSDEC and corrective actions should be taken as follows:

- All necessary repairs shall be made immediately.
- Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.
- All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.
- Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction in the Site, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment, and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (i.e., TAL metals, TCL VOCs, TCL SVOCs, TCL pesticides; and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed by the qualified environmental professional to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected impacted media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

13 COMMUNITY AIR MONITORING PLAN

If future intrusive activities will encounter potentially impacted material, air monitoring will be performed in accordance with the New York State Department of Health's (NYSDOH's) Generic CAMP included as Appendix E to the SMP. This will involve real-time monitoring for organic vapors and particulate matter less than 10 micrometers in diameter. Monitoring will be performed at one upwind and at least one downwind monitoring stations. Air monitoring station locations shall be determined based on wind directions at the beginning of each shift. [These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least one downwind monitoring stations.](#) Air monitoring stations will be adjusted on a daily or more frequent basis based on actual wind directions.

[Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.](#)

14 ODOR CONTROL PLAN

[This odor control plan is capable of controlling emissions of nuisance odors generated from the Site. Specific odor control methods to be used on a routine basis will include water/BioSolve® spray, polyethylene sheeting \(for cover excavation faces, material stockpiles, etc.\), a perimeter misting system \(e.g., Piion Flexi-Fog system\), and/or vapor suppression foam. Note that use of a perimeter misting system is only acceptable when used in conjunction with at least one of the other stated odor control methods. In addition, steps will be taken to minimize the excavation surface area exposed at any one time.](#)

[If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted, and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the qualified environmental professional, and any measures that are implemented will be discussed in the Periodic Review Report.](#)

[All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: \(a\) limiting the area of open excavations and size of soil stockpiles; \(b\) shrouding open excavations with tarps and other covers; and \(c\) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: \(d\) direct load-out of soils to trucks for off-site disposal; \(e\) use of chemical odorants in spray or misting systems; and, \(f\) use of staff to monitor odors in surrounding neighborhoods.](#)

[If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.](#)

15 DUST CONTROL PLAN

Dust monitoring will be performed in accordance with this EMP, including Section 13 (CAMP). A dust suppression plan that addresses dust management during invasive work within areas identified as potentially containing MGP-impacted soil will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger areas will be done in stages to limit the area of exposed, non-vegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.
- Travel speeds over haul roads will be limited.
- The number and size of excavation areas open at one time will be limited.
- Excavations and materials in on-site staging areas will be covered using UV-resistant polyethylene sheeting.

16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during clearing and grubbing, and during all remedial work.

If required, based on the nature of un-anticipated excavation work being conducted (e.g., prolonged excavation activities near a residential property), a plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances. Noise monitoring will not be required during routine monitoring and maintenance activities presented in the SMP.

APPENDIX D

Health and Safety Plan



Site Specific Health and Safety Plan

Revision 17h

Project Name:	Dansville Former MGP Site
Project Number:	B0013142 / 30003495
Client Name:	NYSEG
Date:	10/30/2020
HASP Expires	10/30/2021
Revision:	

Approvals:

HASP Developer: _____ Adam Svensson

Project Manager: _____ Jason Golubski

HASP Reviewer: _____ Veronica L. Bean

Revised: 6/1/2020

Arcadis Field and Embedded Staff COVID-19 Guidance

See COVID-19 Plan for More Information

[Check the Orange Line Daily](#)

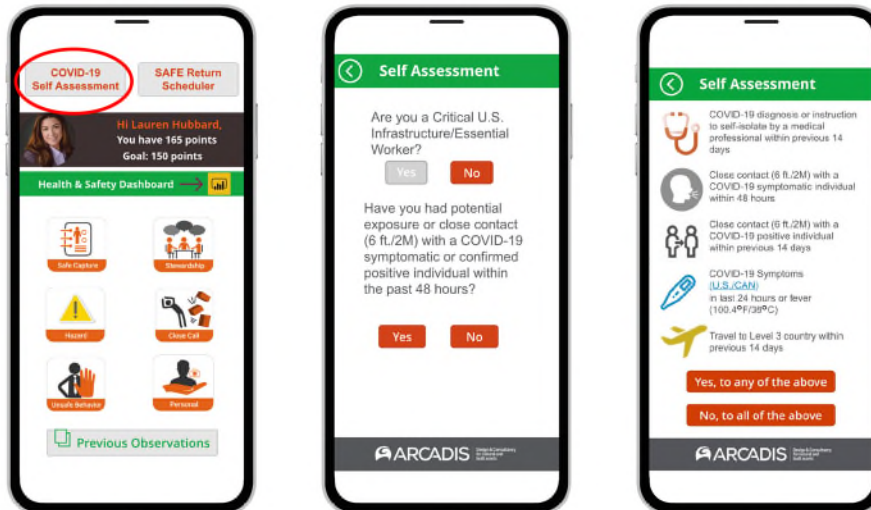


COVID-19 HEALTH AND SAFETY PROCEDURES

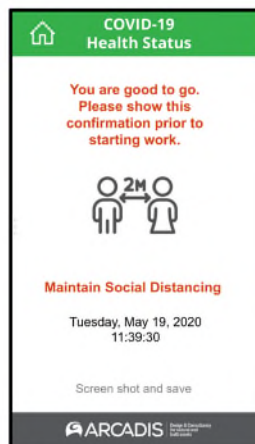


COVID-19 SELF ASSESSMENT

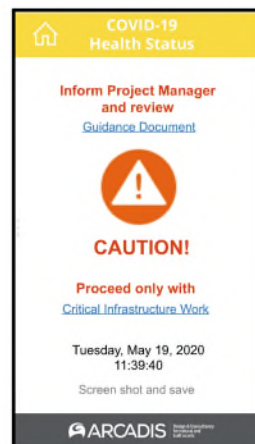
Arcadis staff visiting offices and project sites must complete the COVID-19 Health Screening Self-Assessment Questionnaire prior to each visit. Arcadis staff can now use the H&S App to complete their daily (or multiple times a day, if appropriate) COVID-19 Health Screening Self-Assessment. The data entered into the H&S App COVID-19 Health Screening Self-Assessment form is not stored.



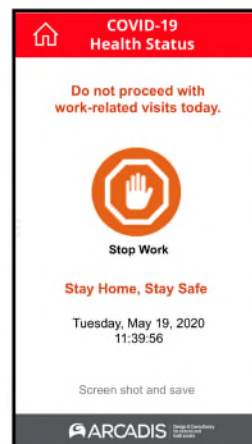
Upon completion of the COVID-19 Health Screening Self-Assessment in the H&S App, the user will receive a green, yellow or red completion message (as shown below).



Green – proceed to the office or project site



Yellow (Caution) – critical infrastructure/essential worker must contact the Project Manager and review the "H&S App Yellow Caution Status Guidance"



Red – do not proceed to the office or project site

Arcadis Culture of Caring

Arcadis is committed to a Culture of Caring that ensures each Arcadis employee, part time as needed employee (PTAN), temporary agency employee under Arcadis day to day control, Inexperienced Workers and contractor (cumulatively referred to here as "field staff") goes home at the end of the day free from injury or illness. I certify that the following has been performed with all Arcadis field staff on this project either in person or by Skype:

- ☐ Reviewed the HASP including a discussion of hazard identification and controls.
- ☐ If conducting activities deemed by Arcadis to be "High Risk", frontline management has reviewed applicable H&S standards (Job Safety Analysis [JSA] when authorized by H&S) for these activities with field staff.
- ☐ If permit to work is required, frontline management has reviewed the permit(s) with field staff.
- ☐ Reviewed proactive H&S engagement expectations/injury prevention actions.
- ☐ Reviewed Stop Work Authority.
- ☐ Reviewed the incident reporting process and expectations including when WorkCare should be contacted by staff (WorkCare incident intervention for all minor, non-emergency injuries) and that the WorkCare phone number is programmed into field team cell phone.
- ☐ For Inexperienced Workers, a mentor has been assigned for the new task being performed.

For short service employees (SSEs), PTANS* and temporary agency employees* :

- ☐ Provided coaching and mentoring on Arcadis H&S expectations during project work. Reviewed in detail specific hazards and controls and provided a resource who can be contacted if individual has questions regarding planned or unplanned work tasks.

Mentor/Resource # Jason Golubski

Name

315-671-9437

Phone Number

Signed:

Project Manager

* Upon hiring/contracting for the first time.

Emergency Information

Site Address:

50 Ossian Street
Dansville, NY

Emergency Phone Numbers:

Emergency (fire, police, ambulance)

911

Emergency (facility specific, if applicable):

Dansville Police Dept. (non-emergency)

585-243-7100

Emergency Other (specify):

Primary Client Contact:

John Ruspantini

1-607-762-8787

WorkCare (non-life-threatening injury/illness):

1-888-449-7787

Project H&S:

Nicholas Beyrle

585-662-4044

Task Manager:

Nicholas Beyrle

585-662-4044

Project Manager:

Jason Golubski

315-671-9437

Corporate H&S Specialist:

Andrew McDonald

410-923-7820

Corporate H&S Director:

Lauren Hubbard

317-236-2805

Hospital Name and Address:

Noyes Health

111 Clara Barton Street

Dansville, New York

Hospital Phone Number:

585-335-6001

Supplemental Client Contact Information:**Other Important Phone Numbers:**

Poison Control Center

1-800-222-1222

Nat. Response Ctr. (spills in reportable quantities)

1-800-424-8802

U.S. Coast Guard (spills to water)

1-800-424-8802

Incident Reporting Protocol Within Arcadis

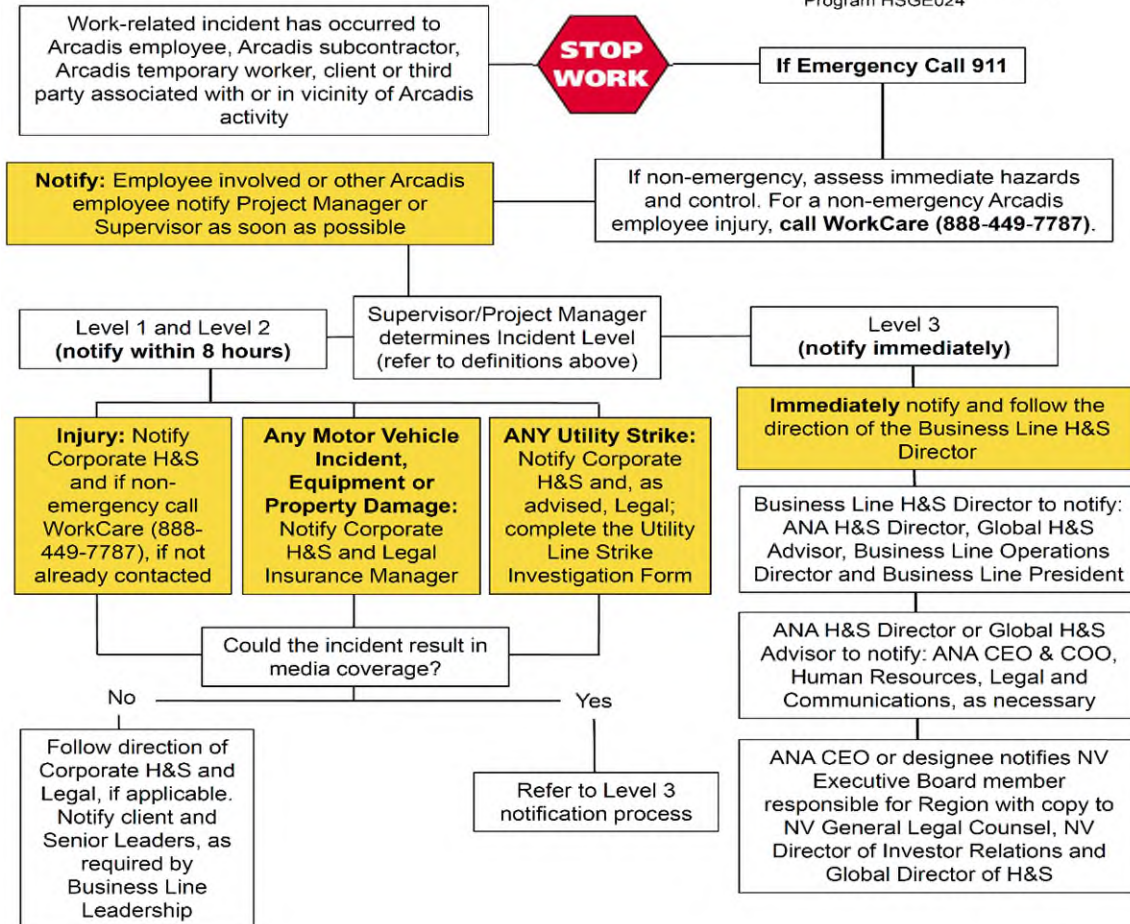
Incident Levels

Level 1: First aid/self-treated, work-related injury (contact WorkCare as soon as possible); minor property or equipment damage (less than or equal to \$100); vehicle loss event* (no injuries, no third-party involvement or other vehicle involvement).

Level 2: Professional Medical Treatment (if non-emergency injury or illness, employee must contact WorkCare as soon as possible); moderate property or equipment damage (greater than \$100 but less than or equal to \$5,000); ANY utility strike incident, any motor vehicle accident* (including injury or third-party involvement).

Level 3: Immediately report fatality, severe or catastrophic injury and/or overnight hospitalization required; significant property or equipment damage (greater than \$5,000); missing person or incident that generates media coverage.

* Refer to Motor Vehicle Safety Program HSGE024



Client Incident Reporting Protocol

- Step 1: Dial 911 (if necessary) and/or WorkCare 1-888-449-7787
- Step 2: Contact Principal-in-Charge / Project Manager / Task Manager
- Step 3: Contact H&S Manager
- Step 4: Contact Client

Client reporting protocol must be provided by the project team at the bottom of this worksheet.

Route to the Hospital

Map Interface:

- Top Left:** Navigation controls (compass, street view, zoom in/out).
- Top Right:** Map style selector (Satellite, Traffic).
- Bottom Left:** Search bar and destination input fields.
- Bottom Center:** Suggested routes and driving directions.
- Bottom Right:** Map area showing the route and surrounding streets.

Destination Input:

- A:** 50 Ossian Street, Dansville, NY
- B:** 111 Clara Barton Street, Dansville, NY
- [Add Destination - Show options](#)
- [GET DIRECTIONS](#)

Suggested routes:

- Jefferson St and Clara Barton** 0.7 mi, 2 mins
- Washington St and Clara Barton** 0.7 mi, 2 mins
- Or Walk** 15 mins

Driving directions to 111 Clara Barton St, Dansville, NY 14437

- Head west on Ossian St toward Fulton St** 0.1 mi
- Take the 2nd left onto Jefferson St** 0.4 mi
- Turn right onto Clara Barton St** 0.2 mi
Destination will be on the left

Destination: 111 Clara Barton St, Dansville, NY 14437

[Save to My Maps](#)

[Edit in Google Map Maker](#) [Report a problem](#)

Site Type

The project site is an active facility with the following attributes:

Parking Lot/Private Roadway

Residential Properties

Work with exposure to vehicular traffic on private property (Non-ROW) requires preparation of a Non-ROW Traffic Safety Plan.

Surrounding Land Use and Topography

The Site is comprised of a mixed industrial use (i.e., the NYSEG-owned property) and residential neighborhood, with private residences to the north, south, east, and west. The site is generally flat.

Simultaneous Operations (SimOps)

N/A

Site Background

The gas works operations began in 1861 and continued for approximately 70 years, ceasing in January of 1930. Oil, coal, and coke were used as feed fuels at various times during the plant's operation. In later years, NYSEG used a portion of the property for electrical equipment storage, including transformers. Electricity was also produced on-site from 1895 to 1925. In the years after plant operations had ceased, the gas house was used as a meter department and was later removed in 1958. Service center operations ceased in 2010 and the remaining building was demolished in 2012.

Project Tasks

The following tasks are identified for this project:

1	Driving - Motor vehicles
2	Mobilization - Site set up and take down
3	Monitor well - Well sounding, water level or product measurements using probes, tapes or downhole wat
4	Sampling - Well sampling using bailers
5	Sampling - Soil sampling using manual methods
6	Monitor well - Well installation
7	Monitor well - Well development and purging using manual methods
8	ECH-O sock replacement
9	Cooler Packing
10	Waste - Containment of IDW in small containment devices greater than 10 gallons but less than or equal
11	Utilities - Clearance

Supplemental requirements associated with the above task(s):

Not applicable

☒ Required Checklists/Work Forms

Tailgate Safety Briefing Form

Vehicle Inspection Checklist

Utility and Structures Checklist

☐ Required Permits

Not Applicable

☒ Required H&S Standards

Motor Vehicle Safety Program_ARC HSGE024

Utility Location Procedures_ARC HSFS019

Short Service Employees (SSEs)

SSEs (employees who are employed with Arcadis for less than 1 year or are Inexperienced Workers) are not anticipated to be working on this project. If staffing changes occur during this project and SSEs are utilized, the project team working in conjunction with the SSE's administrative supervisor will ensure requirements of ARC HSGE019 "Short Service Employees" are completed. SSE's will be identified in the project Tailgate Safety Meeting Form.

Roles and Responsibilities

Name	Role	Short Service Employee
1 Jason Golubski	Project Manager (PM)	No
2 Nicholas Beyrle	Associate Project Manager (APM)	No
3 Nicholas Beyrle	Task Manager	No
4 Ryan Clare	Field Technical Lead	No
5 Ryan Clare	Site Safety Officer (SSO)	No

Training

All Arcadis employees are required to have the following training to be on site:

H&S Program Orientation (non-certificate)
 HAZCOM GHS/EAP (non-certificate)
 Defensive Driving - Smith On-Line
 Hazwoper 40-Hour
 PPE (non-certificate)
 Hazwoper 8-Hour Annual Refresher
 Client specific:

 Other:

Selected Arcadis employees are required to have the following additional training:

Names or Numbers from above	
BBP (Bloodborne Pathogens)	3, 4
First Aid/CPR	3, 4
DOT HazMat #1	All Samplers
None	
None	
None	
None	
None	
Other:	
_____	_____

The Arcadis Fundamental H&S Principles

Staff working on any of the task(s) listed above must utilize the six Arcadis Fundamental H&S Principles to ensure work is conducted safely. These principles include: 1) Use of TRACK, 2) H&S Planning, 3) Stop Work Authority, 4) "If Not Me Then Who", 5) Stewardship, and 6) Incident Reporting. Every project team member plays an important role in project health and safety. This is more than just having a HASP, training, or PPE. Proactive staff engagement with these principles is critical to a safe work environment.



General Task Hazard Assessment and Risk Control (HARC)

General:		Hazards Applicable to All Project Tasks																																																			
The 12 hazard category HARC ratings are not available in this General THA. The mitigated and unmitigated ratings for the hazards presented are based on the Risk Assessment Matrix below. Modify hazards and ratings as necessary to meet project needs.																																																					
<table><tr><th colspan="2">Risk Assessment Matrix</th><th colspan="4">Likelihood Ratings</th></tr><tr><th colspan="2">Consequences Ratings</th><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td></td><td></td><td>0 Almost Impossible</td><td>1 Possible but Unlikely</td><td>2 Likely to Happen</td><td>3 Almost Certain to Happen</td></tr><tr><td>People</td><td>Property</td><td></td><td></td><td></td><td></td></tr><tr><td>1-Slight or No Health Effect</td><td>Slight or No Damage</td><td>0-Low</td><td>1-Low</td><td>2-Low</td><td>3-Low</td></tr><tr><td>2-Minor Health Effect</td><td>Minor Damage</td><td>0-Low</td><td>2-Low</td><td>4-Medium</td><td>6-Medium</td></tr><tr><td>3-Major Health Effect</td><td>Local Damage</td><td>0-Low</td><td>3-Low</td><td>6-Medium</td><td>9-High</td></tr><tr><td>4-Fatalities</td><td>Major Damage</td><td>0-Low</td><td>4-Medium</td><td>8-High</td><td>12-High</td></tr></table>		Risk Assessment Matrix		Likelihood Ratings				Consequences Ratings		A	B	C	D			0 Almost Impossible	1 Possible but Unlikely	2 Likely to Happen	3 Almost Certain to Happen	People	Property					1-Slight or No Health Effect	Slight or No Damage	0-Low	1-Low	2-Low	3-Low	2-Minor Health Effect	Minor Damage	0-Low	2-Low	4-Medium	6-Medium	3-Major Health Effect	Local Damage	0-Low	3-Low	6-Medium	9-High	4-Fatalities	Major Damage	0-Low	4-Medium	8-High	12-High				
Risk Assessment Matrix		Likelihood Ratings																																																			
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3-Major Health Effect	Local Damage	0-Low	3-Low	6-Medium	9-High																																																
4-Fatalities	Major Damage	0-Low	4-Medium	8-High	12-High																																																
Hazard #1																																																					
Driving - On road - Injury or vehicle damage from motor vehicle accident or incident																																																					
Suggested FHSHB Ref:	3.4	To mitigate this hazard, use TRACK and the following:																																																			
Overall Unmitigated Risk:	HIGH	Smith System (on line)																																																			
Mitigated Risk:	MEDIUM	JSAs																																																			
Comments:	Use Smith System "5-Keys" when driving. See Driving JSA for details.																																																				
Hazard #2																																																					
Driving - Driver - Injury, death or property damage due to driver distraction, fatigue, etc.																																																					
Suggested FHSHB Ref:	3.4, 3.21	To mitigate this hazard, use TRACK and the following:																																																			
Overall Unmitigated Risk:	HIGH	Smith System (on line)																																																			
Mitigated Risk:	LOW	Driver awareness and use of stop work authority																																																			
Comments:	Use route planning. Keep eyes moving while driving. See Driving JSA.																																																				
Hazard #3																																																					
Biological - skin/eye irritation or damage from poisonous plants																																																					
Suggested FHSHB Ref:	3.17.11	To mitigate this hazard, use TRACK and the following:																																																			
Overall Unmitigated Risk:	LOW	Job Briefing/Site Awareness																																																			
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)																																																			
Comments:	Use skin pre-treatment lotions when available.																																																				
Hazard #4																																																					
Biological - bites or stings from exposure to insects or arachnids																																																					
Suggested FHSHB Ref:	3.17: 2,3,7,8,9,10	To mitigate this hazard, use TRACK and the following:																																																			
Overall Unmitigated Risk:	LOW	Job Briefing/Site Awareness																																																			
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)																																																			
Comments:	Do body check daily.																																																				
Hazard #5																																																					
Biological - cuts, scrapes, skin/eye puncture from exposure to physically damaging plants																																																					
Suggested FHSHB Ref:	3.17.11	To mitigate this hazard, use TRACK and the following:																																																			
Overall Unmitigated Risk:	MEDIUM	Job Briefing/Site Awareness																																																			
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)																																																			
Comments:	Don appropriate PPE.																																																				

General Task HARC (continued)

Hazard #6		
Environmental - Thermal stress - Injury or illness from heat or cold		
Suggested FHSB Ref:	3.16	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Field H&S Handbook (see ref. above)
Mitigated Risk:	LOW	JSAs
Comments:	Use job rotation or rest breaks. Stay hydrated and eat regularly.	
Hazard #7		
Environmental - Inclement weather - Injury or equipment damage from inclement weather		
Suggested FHSB Ref:	3.12	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Weather Monitoring
Mitigated Risk:	LOW	Cont./Emerg. Planning
Comments:	Use 30/30 rule for lightning. See FHSB for details.	
Hazard #8		
Motion - Musculoskeletal - Injury from lifting, twisting , stooping, or awkward body positions		
Suggested FHSB Ref:	3.29.1	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FHSB for details.	
Hazard #9		
Motion - Musculoskeletal - Injury from repeated work activity or body motion		
Suggested FHSB Ref:	3.29.2	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FHSB for details.	
Hazard #10		
Sound - Noise - Injury or illness due to noise exposure		
Suggested FHSB Ref:	3.15	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)
Comments:	Increase distance from source if possible. Maintain equipment.	
Hazard #11		
Gravity - Falls - Injury due to slips and trips		
Suggested FHSB Ref:	3.26.4, 4.11	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Site Awareness
Mitigated Risk:	LOW	Housekeeping
Comments:	Use footwear appropriate for site conditions, plan routes and do not hurry while walking.	

Task Specific HARC

Task 1:	Driving - Motor vehicles						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref:		3.4	
Biological	-	Chemical	-	Driving	H	Electrical	-
Environmental	-	Gravity	-	Mechanical	-	Motion	-
Personal Safety	L	Pressure	-	Radiation	-	Sound	-
Hazard #1							
Driving - Off road - Injury or vehicle damage from object impact/vehicle rollover/improper load securement							
Suggested FHSB Ref:		3.4.2.1		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		HIGH		Smith System (on line)			
Mitigated Risk:		LOW		JSAs			
Comments:							

Task Specific HARC (continued)

Task 2:	Mobilization - Site set up and take down						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:		3.9			
Biological	-	Chemical	L	Driving	-	Electrical	L
Environmental	L	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	L	Sound	L
Hazard #1							
Motion - Cuts and scrapes - Injury from moving object impacting skin or eye							
Suggested FHSB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		Site Awareness			
Comments:							

Task Specific HARC (continued)

Task 3:		Monitor well - Well sounding, water level or product measurements using probes, tapes or downhole water parameter measurements					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSHB Ref:		3.9	
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	L	Gravity	M	Mechanical	-	Motion	L
Personal Safety	-	Pressure	L	Radiation	-	Sound	L

Task Specific HARC (continued)

Task 5:	Sampling - Soil sampling using manual methods						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):				FHSHB Ref:		3.9
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	-	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L

Task Specific HARC (continued)

Task 6:		Monitor well - Well installation					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSHB Ref:		3.9	
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	-	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	M

Hazard #1	
Motion - Struck by - Bodily injury from impact with moving object	
Suggested FHSHB Ref:	2.5, 3.22
Overall Unmitigated Risk:	MEDIUM
Mitigated Risk:	LOW
Comments:	Exclusion zone around equipment

To mitigate this hazard, use TRACK and the following:	
JSAs	
Select	

Task Specific HARC (continued)

Task 7:		Monitor well - Well development and purging using manual methods					
HARC Unmitigated		Hazard Types (H-High, M-Medium, L-Low):			FHSB Ref:		3.9
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	M	Gravity	L	Mechanical	-	Motion	M
Personal Safety	L	Pressure	-	Radiation	-	Sound	L

Task Specific HARC (continued)

Task 8:	ECH-O sock replacement						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref:		NA
Biological	-	Chemical	L	Driving	-	Electrical	-
Environmental	-	Gravity	L	Mechanical	-	Motion	M
Personal Safety	-	Pressure	-	Radiation	-	Sound	-
Hazard #1							
Chemical - liquids - injury or illness from vapor inhalation							
Suggested FHSB Ref:	3.2, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			JSAs			
Comments:							
Hazard #2							
Chemical- liquids - injury or illness from skin absorption							
Suggested FHSB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			SDS (see also HASP Hazcom/GHS section)			
Comments:							
Hazard #3							
Chemical-liquids or solids - explosive, flammable or combustible vapors or particulates							
Suggested FHSB Ref:	3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			SDS (see also HASP Hazcom/GHS section)			
Comments:							

Task Specific HARC (continued)

Task 9:	Cooler Packing						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSHB Ref:		NA	
Biological	-	Chemical	-	Driving	-	Electrical	-
Environmental	-	Gravity	-	Mechanical	-	Motion	M
Personal Safety	L	Pressure	-	Radiation	-	Sound	-

Task Specific HARC (continued)

Task 10:	Waste - Containment of IDW in small containment devices greater than 10 gallons						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref:		3.3	
Biological	L	Chemical	M	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
Hazard #1							
Chemical - liquid, solid, or gas - Equipment damage due to corrosion or spill							
Suggested FHSB Ref:	3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			JSAs			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Comments:							
Hazard #2							
Chemical-liquids or solids - explosive, flammable or combustible vapors or particulates							
Suggested FHSB Ref:	3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			SDS (see also HASP Hazcom/GHS section)			
Comments:							
Hazard #3							
Chemical - storage of liquids or solids - injury or property damage due to chemical incompatibility							
Suggested FHSB Ref:	3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	LOW			SDS (see also HASP Hazcom/GHS section)			
Mitigated Risk:	LOW			Chemical Hygiene Plan (CHP) or HASP equivalent			
Comments:							

Task Specific HARC (continued)

Task 11:	Utilities - Clearance						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref:		3.36	
Biological	L	Chemical	L	Driving	-	Electrical	M
Environmental	L	Gravity	L	Mechanical	M	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
Hazard #1							
Environmental - Utilities - Injury or property damage from utility strike/damage							
Suggested FHSB Ref:		3.36		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		HIGH		Specialized Equipment (specify in comments)			
Mitigated Risk:		MEDIUM		Specialized Checklist/Forms			
Comments:		Fill out Utility Checklist. Use GPR or other utility screening instruments to identify known utilities and and possible unknown utilities.					

Hazard Communication (HAZCOM)/Global Harmonization System (GHS)

☐ HAZCOM/GHS for this project is managed by the client or general contractor

List the chemicals anticipated to be used by Arcadis on this project per HAZCOM/GHS requirements.

(Modify quantities as needed)

Preservatives		Qty	Decontamination		Qty	Calibration		Qty.
☐	Not applicable		☐	Not applicable		☐	Not applicable	
☒	Hydrochloric acid	<500 ml	☒	Alconox	≤ 5 lbs	☒	Isobutylene/air	1 cyl
☐	Nitric acid	<500 ml	☒	Liquinox	≤ 1 gal	☐	Methane/air	1 cyl
☐	Sulfuric acid	<500 ml	☐	Acetone	≤ 1 gal	☐	Pentane/air	1 cyl
☐	Sodium hydroxide	<500 ml	☐	Methanol	≤ 1 gal	☐	Hydrogen/air	1 cyl
☐	Zinc acetate	<500 ml	☐	Hexane	≤ 1 gal	☐	Propane/air	1 cyl
☐	Ascorbic acid	<500 ml	☒	Isopropyl alcohol	≤ 4 gal	☐	Hydrogen sulfide/air	1 cyl
☐	Acetic acid	<500 ml	☐	Nitric acid	≤ 1 L	☐	Carbon monoxide/air	1 cyl
☐	Isopropyl alcohol	< 4 gal.	☐	Other:		☒	pH standards (4,7,10)	≤ 1 gal
☐	Formalin (<10%)	< 4 gal.				☒	Conductivity standards	≤ 1 gal
☐	Methanol	<500 ml				☒	Other:	
☐	Sodium bisulfate	<500 ml					AutoCal, ORP, Turbidity	≤ 1 gal

Fuels		Qty.	Kits		Qty.
☒	Not applicable		☒	Not applicable	
☐	Gasoline	≤ 5 gal	☐	Hach (specify):	1 kit
☐	Diesel	≤ 5 gal	☐	DTECH (specify):	1 kit
☐	Kerosene	≤ 5 gal	☐	Other:	1 kit
☐	Propane	1 cyl			
☐	Other:				

Remediation		Qty.	Other:		Qty.	DOT(1):		Qty.
☐	Not applicable		☐	Not applicable		☐	MOT eligible soils	
☒	EHC oxygen releasing material		☒	Spray paint	≤ 6 cans	☐	MOT eligible water	
☐			☐	WD-40	≤ 1 can	☐	MOT eligible solids	
☐			☐	Pipe cement	≤ 1 can	☐	MOT eligible liquids	
☐			☐	Pipe primer	≤ 1 can	☐		
☐			☐	Mineral spirits	≤ 1 gal	☐		

(1) Attach applicable Materials of Trade (MOT) generic shipping determination. SDS not generally applicable to this category.

SDSs for this project are attached to this HASP.

Air Monitoring

☐	There are no atmospheric chemical, radiological, or particulate hazards on this project requiring air monitoring.
☐	Air monitoring is the responsibility of the client or subcontractor.

Constituents of Interest:

Time Weighted Averages (TWAs) are ACGIH 8-Hr Threshold Limit Values (TLVs) unless noted.

Benzene

TWA	0.5 ppm, OSHA Reg. See Notes	LEL/UEL (%)	1.2/7.8
STEL	2.5 ppm	VD (Air = 1):	NA
IDLH	500 ppm, NIOSH	VP (mmHg):	75

Ethylbenzene

TWA	20 ppm	LEL/UEL (%)	0.8/6.7
STEL	125 ppm	VD (Air = 1):	NA
IDLH	800 ppm, NIOSH	VP (mmHg):	7

Toluene

TWA	20 ppm	LEL/UEL (%)	1.1/7.1
STEL	150 ppm, NIOSH	VD (Air = 1):	NA
IDLH	500 ppm, NIOSH	VP (mmHg):	21

Xylenes

TWA	100 ppm	LEL/UEL (%)	1.1/7.0
STEL	150 ppm	VD (Air = 1):	NA
IDLH	900 ppm, NIOSH	VP (mmHg):	9

TWA - Time Weighted Average (ACGIH TLV unless noted)

LEL/UEL - Lower /Upper Explosive Limit

STEL - Short Term Exposure Limit

RGD - Relative Gas Density

IDLH - Immediately Dangerous to Life and Health

VP - Vapor Pressure

Notes:

As noted, one or more of the above constituents is an OSHA regulated substance. If exposure is expected to be above the TWA or STEL, contact a CIH or CSP for assistance unless otherwise permitted by a substance specific plan template identified in this section.

Required Monitoring Instruments, Action Levels and Monitoring Frequency

Gray fields below are not automated. Make necessary selections from drop down menus.

Photoionization Detector

Select Lamp: 10.6 eV

Computed action levels (PID units) (1):		Computed action levels have been manually adjusted.
<	3.0	Continue working
	1.9 - 3.8	Levels sustained > 5 minutes, monitor continuously and review engineering controls and PPE. Proceed with caution.
>	3.8	Stop work and contact SSO

(1) Computed action levels are for PIDs which have not been programmed to correct TLVs for specific constituents or mixtures.

Particulate/Aerosol monitoring is required.

Action levels are in mg/m3		Computed action levels have been manually adjusted.
<	3	Continue working
	1.5 - 3	Levels sustained > 5 minutes, monitor continuously and review engineering controls and PPE. Proceed with caution.
>	3	Stop work and contact SSO

Breathing zone air monitoring using the above instruments will be performed at the following frequency:

15 Minute intervals

Multigas (including LEL/O2 and Hg vapor) monitoring is not required.

LEL/O2 Meter	0-5% LEL	Continue work
	>5-10% LEL	Continually monitor, review engineering controls, proceed with caution
LEL/O2 Monitoring Not Required	>10% LEL	Stop work, evacuate, contact SSO
	19.5%-23.5% O2	Normal, continue work
	<19.5% O2	O2 deficient, stop work, evacuate, contact SSO
	>23.5% O2	O2 enriched, stop work, evacuate, contact SSO

Additional Gas/Vapor Monitoring is Not Required

	1/2 TLV	Stop Work Action Level	Comments
☐ Ammonia	12.5 ppm	25 ppm	
☐ Carbon dioxide	2500 ppm	5000 ppm	
☐ Carbon monoxide	12.5 ppm	25 ppm	
☐ Chlorine	0.05 ppm	0.1 ppm	
☐ Hydrogen cyanide	2.35 ppm (skin)	4.7 ppm* (skin)	
☐ Hydrogen sulfide	0.5 ppm	1 ppm	
☐ Nitrogen dioxide	0.1 ppm	0.2 ppm	
☐ Phosphine	0.025 ppm	0.05 ppm	
☐ Sulfur dioxide	0.125 ppm	0.25* ppm	
☐ Mercury vapor	0.0125 mg/m3	0.025 mg/m3	

* Ceiling or STEL value

All air-monitoring instruments must be calibration checked daily, if used, per manufacturer's instructions. Calibration checks, including calibration gases used, must be documented.

Compound specific monitoring using indicator tubes or chips is not required.

Indicator:		≤TWA	Continue work
☐ Tube	☐ Chip	>TWA	Stop work, review engineering controls and PPE, contact SSO
Compound(s):			

Indicator tube/chip monitoring frequency: Not applicable

Personal Protective Equipment (PPE)

See JSA or Permit for the task being performed for required PPE. If work is not conducted under a JSA or Permit, refer to the governing document for PPE requirements. At a minimum, the following checked PPE is required for all tasks during field work (outside of field office trailers and vehicles) not covered by a JSA or Permit on this project:

Minimum PPE required to be worn by all staff on project:				Specify Type:		
☒	Hard hat	☐	Snake chaps/guards	☐	Coveralls:	
☒	Safety glasses	☐	Briar chaps	☐	Apron:	
☐	Safety goggles	☐	Chainsaw chaps	☒	Chem. resistant gloves:	Nitrile
☐	Face shield	☐	Sturdy boot	☒	Gloves other:	Leather
☒	Hearing protection	☒	Steel or comp. toe boot	☐	Chemical boot:	
☐	Rain suit	☐	Metatarsal boot	☐	Boot other:	
☐	Other:			☒	Traffic vest, shirt or coat:	Class II
				☐	Life vest:	

Task specific PPE: Nitrile gloves will be used during soil and water sampling and hearing protection
Comments: will be used during the installation of soil borings, or as needed.

Medical Surveillance

HAZWOPER medical surveillance applies to all Arcadis site workers on the project.

Hazardous Materials Shipping and Transportation

An SD is attached.

Traffic Safety and Traffic Safety Plans (TSPs)

All or portions of the project work will be conducted in a parking lot and/or private roadway. A Non-ROW TSP addressing this work is attached to this HASP.

Arcadis Commercial Motor Vehicles (CMVs)

CMVs operated by Arcadis employees on public roadways will not be utilized on this project. Arcadis defines a CMV as any single vehicle with a gross vehicle weight rating (GVWR) $\geq 10,001$ pounds or a truck and trailer combination with a combined GVWR $\geq 10,001$ pounds (GVWR of truck + GVWR of trailer = $\geq 10,001$ pounds).

Site Control

Maintain an exclusion zone of 50 ft. around the active work area.

Decontamination

Wash hands and face prior to consuming food, drink or tobacco. Remove gloves and coveralls and contain, wash hands and face prior to consuming food, drink or tobacco. Ensure footwear is clean of site contaminants.

Sanitation

The project scope is a mobile work operation. The project field team will have reasonable access to restroom facilities within 10 minutes of the work area where the mobile work activity is actively taking place. Potable water will be carried by the field team in the vehicle used for the project. Unless alternate requirements are stipulated in a plan supplement (i.e. Heat Injury and Illness Prevention Plan), permit or JSA, bottled or water coolers with potable water will be provided to project workers at 1 gallon/worker/day.

Safety Briefings

Arcadis will lead all safety briefings on this project and will document the safety briefing on a Tailgate Safety Briefing form or logbook. Safety briefings will be conducted once at the beginning of each work day unless the Site Safety Officer deems more frequent safety briefings will be required based on work being conducted. All project workers, including Arcadis subcontractors, will be required to attend the safety briefing. Site visitors and project workers not on duty during the morning safety briefing will receive the safety briefing upon their arrival onto the project site for the day.

Employee Health and Safety Engagement

The CPM or APM is responsible for reviewing and establishing H&S engagement goals for the project. These goals are summarized below.

Hazard Observations (via H&S App or TIP) required at the following frequency on this project:

Close Call reporting (via H&S app) goals for this project:

Other (specify):

Safety Equipment and Supplies

Safety equipment/supply requirements are addressed in the JSA or Permit for the task being performed. If work is not performed under a JSA or Permit, the following safety equipment is required to be present on site in good condition unless otherwise noted (Check all that apply):

☒	First aid kit
☐	Bloodborne pathogens kit
☒	Fire extinguisher
☐	Eyewash (ANSI compliant)
☒	Eyewash (bottle)
☒	Drinking water
☐	Other:

☐	Insect repellent:	
☒	Sunscreen	
☐	Air horn	
☒	Traffic cones	
☐	2-way radios	
☐	Heat stress monitor	
☐	Poisonous plant pre/post exposure lotion/soap	

Control of Ticks and Poisonous Plants

Work on this project has a low tick exposure hazard. Use of insect repellent (DEET and/or permethrin) is recommended. Wear light colored clothing to help identify presence of ticks on staff. Keep shirt tails inside pants.

Work on this project has a low poisonous plant exposure hazard. First aid kits should be equipped with post exposure soap as a precaution. Inspect work area for presence of hazard prior to initiating work at the location. Wear disposable gloves during work and while removing outer footwear.

International Travel

International travel is not required for this project.

Spill Control and Containment

Spill control and containment protocols, including required equipment and supplies, are located in the project work plan governing work on this project.

Use of Electronic Devices in Areas of Increased Safety Risk

Due to the potential explosive atmosphere in one or more work activities associated with this project, the electronic device (tablet, laptop and/or cell phone) used must be intrinsically safe unless permitted by a CIH, CSP or Arcadis approved Competent Person.

Electronic device use and distractions to be discussed and documented in the job briefing/safety briefing.

Signatures

I have read, understand and agree to abide by the requirements presented in this health and safety plan. I understand that I have the absolute right to stop work if I recognize an unsafe condition affecting my work until corrected.

Printed Name	Signature	Date

Add additional sheets if necessary

You have an absolute right to STOP WORK if unsafe conditions exist!

Attachment A
COVID-19 Preparedness,
Response and Continuity Plan

COVID-19 Preparedness, Response, and Continuity Plan

1.0 Introduction

Currently Arcadis is following CDC and Health Canada guidelines, as well as applicable government directives. The health and safety of our people is of utmost importance to us. Arcadians are empowered to use TRACK to evaluate individual situations and Stop Work Authority anytime safety is at risk. Employees will not come to work if exhibiting any respiratory illness symptoms, including but not limited to COVID-19.

This COVID-19 Preparedness, Response and Continuity Plan (COVID-19 Plan) is designed to provide field and embedded employee guidance to reduce or eliminate transmission of the COVID-19 during project work.

2.0 COVID-19 Symptoms

COVID-19 symptoms may appear 2-14 days after exposure to the virus. People with these symptoms or combinations of symptoms may have COVID-19: cough and shortness of breath or difficulty breathing. Alternatively, any employee exhibiting two or more of the following symptoms should seek medical attention for potential COVID-19 infection: fever, chills, cough, shortness of breath or difficulty breathing, fatigue, muscle or body ache, headache, sore throat, new loss of taste or smell, congestion or runny nose, vomiting or nausea, diarrhea. This list is not all inclusive and a medical professional should be consulted if other symptoms appear that are severe or cause you concern.

3.0 General COVID-19 Prevention Practices for All Work Activities

The best way to prevent illness is to avoid exposure to the virus. CDC and Health Canada recommend common flu and cold season preventative measures, including:

- 1) Get a flu vaccine.
- 2) Wash hands often with soap and water for at least 20 seconds. If soap and water are not readily available, use a hand sanitizer with at least 60% alcohol.
- 3) If hand sanitizer or soap & water are not available on site, bring your own source of water and hand soap to accommodate hand washing.
- 4) Avoid touching your eyes, nose and mouth.
- 5) Cover your nose and mouth with a tissue when sneezing or coughing.
- 6) Do not share Personal Protective Equipment (PPE)/Personal Transmission Mitigation Equipment (PTME).
- 7) Maintain and thoroughly clean PPE/PTME in accordance with manufacturer's instructions.
- 8) Avoid sharing phones, offices, tools and equipment. If sharing is necessary, clean and disinfect prior to use.

4.0 Field and Embedded Employee Guidance for Employee Safety and Project Continuity

4.1 Local Orders/Recommendations and Client Requirements

The project site is located in a local with prescribed or recommended COVID-19 prevention requirements (available under separate cover for worker review).

The client does not have prescribed COVID-19 prevention requirements for this project site. The information in this COVID-19 Plan will be followed.

If information in the local/client requirements/recommendations conflicts with this plan, local/client requirements/recommendations will take precedence over requirements in this COVID-19 Plan. Each field worker will be made of aware of the local/client requirements or recommendations

during their initial COVID-19 briefing described in section 4.10 below, if required, or in a standard tailgate safety briefing.

Local/client requirements/recommendations under separate cover are located:

4.2 Relationship of this COVID-19 Plan's Requirements to Other HASP Requirements

This requirements of this COVID-19 Plan and applicable supplementary documents described in section 4.1, if applicable, will take precedence over or be performed in addition to other HASP personal protective equipment (PPE), decontamination and job briefing requirements related to efforts to prevent transmission of COVID-19. In the case of respiratory and hand protection, if other HASP requirements require a more stringent control than prescribed by this COVID-19 Plan, the HASP requirement may be followed. It should also be noted that some jurisdictions are requiring gloves be worn while completing essential activities. In this case identify the appropriate glove for the task and include in the HASP, JSA and/or COVID-19 Plan.

4.3 Travel to the Project Site

The project site is located within the borders of the same state where the office providing field staff is located (intrastate travel). A review of local orders for municipalities, as applicable, within the state do not indicate a travel restriction. The project team must monitor local media and Arcadis guidance via the Orange Line to ensure changes in travel restrictions are addressed and staffing or scheduling adjusted, if required.

[Locations with Travel Restrictions](#)

4.4 Recommendations Associated with Different Modes of Transportation

Drivers and passengers of rental vehicles should assume the vehicle is not clean or disinfected.

Drivers and passengers of company vehicles should exercise good judgement and properly disinfect common touch surfaces of the vehicle before and after use. This is especially important if the vehicle is being operated by multiple drivers or carrying different passengers.

Prior to vehicle operation, employees should wipe down common touch surfaces inside the vehicle and exterior door and liftgate/trunk handles using sanitizing wipes compatible with the surface being disinfected. Use of gloves should be considered if adequate disinfecting wipes are not available. Set vehicle ventilation to fresh air. Wash hands or use hand sanitizers after operating a vehicle.

4.5 Lodging Considerations

The project work does not require use of lodging by a commercial provider or Airbnb type provider.

4.6 Project Staffing

When working in project teams (paired Arcadians, embedded staff, contractors, clients, etc.):

- 1) If feasible, prior to visiting the site, have a H&S check in to confirm all attendees are complying with CDC or Health Canada guidelines, including:
 - 1(a) Confirm understanding that workers or clients should not go to the job site if they have personally tested positive for COVID-19, have been in close contact to anyone else who has tested positive for COVID-19 or are exhibiting symptoms.
 - 1(b) If a worker discloses close contact with someone COVID-19 positive and the worker is asymptomatic, contact the Project Manager and review the section 4.8 and Appendices A and B below.
- 2) Out of respect for all, ask everyone to self-disclose if they are not feeling well (exhibiting flu-like symptoms), and request that they should go home.
- 3) Observe person(s) for symptoms, and use Stop Work, as necessary, and contact Project Manager.
- 4) Set visual or physical barriers to keep the public away (caution tape and cones).
- 5) Consider if "split shifts" can be used to limit contact, or if work can be scheduled during hours of low to no facility operations.
- 6) Arcadis staff plan work activities, continuously use TRACK and re-plan work activities to maximize social distancing and minimize "close contact":
 - 6(a) Practice good hygiene and clean commonly touched surfaces:
 - 6(a)(i) Clean clipboard and pen prior to use.
 - 6(b)(ii) Bring your own pen.
 - 6(b)(iii) Disinfect shared equipment.
 - 6(b)(iv) Coordinate with sanitation vendor for portable hand washing station (soap and water or hand sanitizer)
 - 6(c) Use work practices and tools to minimize close contact when feasible, such as:
 - 6(c)(i) Single person using a winch instead of a two-person lift.
 - 6(c)(ii) tools to maximize distance.
 - 6(d) Use transmission mitigation equipment in accordance with the Job Safety Analysis (face shield, safety glasses, gloves, etc.)
- 7) If social distancing or other controls are or become infeasible discuss this with your supervisor and PM, discuss "Is the work necessary?" or "Can the work be rescheduled for a later date?"
- 8) Subcontractors need to develop and implement their own procedures to protect their workers.

4.7 Special Considerations

No special considerations apply to this project site. Follow the requirements specified in this plan.

4.8 Project Site Entry Requirements

The COVID-19 Health Screening Self-Assessment process flow is provided in Appendix A.

Arcadis staff can use the H&S App to complete their daily (or multiple times a day, if appropriate) COVID-19 Health Screening Self-Assessment as required for entry to the project site. The data

entered into the H&S App COVID-19 Health Screening Self-Assessment form is not stored.

Upon completion of the COVID-19 Health Screening Self-Assessment in the H&S App, the user will receive a green, yellow or red completion message:

- 1) Green – proceed to the office or project site.
- 2) Yellow (Caution) – critical infrastructure/essential worker must contact the Project Manager and review the “COVID-19 Flow Chart - H&S App Yellow Caution Status Guidance” located in Appendix B.
- 3) Red – do not proceed to the office or project site.

Hardcopy assessment forms (available for printing in Appendix A) are available on the project site at the primary entry and delivery point for individuals to complete a self-assessment when they do not have access to the app or prefer to not use the app. When completing the hardcopy version of the self-assessment, the individual completing the form will keep the form in their possession for the duration of the workday.

4.9 COVID-19 Prevention Program Implementation and Oversight

The project site safety officer identified in the project specific HASP will be responsible for implementing and overseeing the requirements of this plan and any other applicable plan or supplement identified in this COVID-19 Plan.

Entity/individual responsible for COVID-19 Plan Implementation and Oversight:
Clare Ryan

4.10 COVID-19 Safety Briefings

COVID-19 specific safety briefings addressing the contents of this plan and any other applicable COVID-19 plan or supplement will be provided verbally to each entrant to the site initially and weekly thereafter. The individual in section 4.9 above, or their approved designate, will provide the briefing and record the names of each individual receiving the briefing. The COVID-19 specific briefing may be integrated into a tailgate safety briefing.

4.11 Social Distancing

The CDC definition of social distancing means remaining out of congregate settings, not shaking

hands, avoiding mass gatherings, and maintaining distance (approximately 6 feet or 2 metres) from others, when possible. Situations where social distancing should be practiced are tailgate and safety briefing meetings, breaks in field trailers, entering stores and workstations. Plan and re-plan work activities to maximize social distancing and minimize close contact with others. If there are instances where social distancing is not being practiced, Stop Work and remove yourself from the situation. Contact the Project Manager or your Supervisor and document in the H&S App as an “Close Call” or “Unsafe Behavior.” Additional information when working in teams is required is discussed in the “work specific situations” section below.

Note: The CDC defines close contact as: a) being within approximately 6 feet (2 metres) ¹ of a COVID-19 case for a prolonged period of time²; close contact can occur while caring for, living with, visiting, or sharing a healthcare waiting area or room with a COVID-19 case – or – b) having direct contact with infectious secretions of a COVID-19 case (e.g., being coughed on).

The scope of work on this project site permits social distancing as defined above. While social distancing is achievable, workers should continue to follow the requirements stipulated in section 4.12 in this COVID-19 Plan while working. If work conditions change and social distancing cannot be achieved, the project team should review Appendix C for additional guidance and expectations.

This project does not require a site analysis performed by the entity/individual specified in section 4.9 to identify potential worker bottlenecks and worker grouping situations. However, the entity/individual in section 4.9 should review work activities at the site and implement controls that reduce or eliminate choke points and grouping situations consistent with the operating COVID-19 Plan for the site.

Notes:

[1] Data to inform the definition of close contact are limited. Factors to consider when defining close contact include proximity, the duration of exposure (e.g., longer exposure time likely increases exposure risk), and whether the exposure was to a person with symptoms (e.g., coughing likely increases exposure risk). While research indicates masks may help those who are infected from spreading the infection, there is less information regarding whether masks offer any protection for a contact exposed to a symptomatic or asymptomatic patient. Therefore, the determination of close contact should be made irrespective of whether the person with COVID-19 or the contact was wearing a mask. Because the general public has not received training on proper selection and use of respiratory PPE, it cannot be certain whether respiratory PPE worn during contact with an individual with COVID-19 infection protected them from exposure. Therefore, as a conservative approach, the determination of close contact should generally be made irrespective of whether the contact was wearing respiratory PPE, which is recommended for health care personnel and other trained users, or a mask recommended for the general public.

[2] Data are insufficient to precisely define the duration of time that constitutes a prolonged exposure. Recommendations vary on the length of time of exposure, but 15 minutes of close exposure can be used as an operational definition. Brief interactions are less likely to result in transmission; however, symptoms and the type of interaction (e.g., did the infected person cough directly into the face of the exposed individual) remain important.

4.12 Personal Transmission Mitigation Equipment

If engineering and administrative controls are ineffective in COVID-19 exposure mitigation, PTME must be used. The following PTME is required to be present on site: face mask/covering, safety glasses, protective gloves

As stated in section 4.2, in the case of respiratory protection and hand protection, if the HASP PPE requirement is more stringent than the PTME stated in this COVID-19 Plan, the HASP PPE requirement may be used. Additionally, for certain high hazard activities, such as hot work or confined space entry, an additional hazard review must be performed to ensure PTME controls used do not create an additional hazard. Contact a CIH or CSP for assistance in these situations.

PTME, or permitted equivalent, is required to be worn by all site workers on the project site even if engineering and administrative controls are effective at reducing COVID-19 exposure.

For more information on face covering use and limitations, see Appendix D.

[Arcadis PPE Request Form](#)

4.13 Cleaning and Disinfection

4.13.1 Hand Hygiene

Hand hygiene for infection prevention is an important part of the U.S. and Canada response to COVID-19. Washing hands with soap and water has been and will continue to be our primary method for good hand hygiene. Both CDC and HC recommend that you wash hands often with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, or sneezing. Hand washing mechanically removes pathogens.

Alcohol based hand sanitizer is a flammable liquid and vapor. However, there is no evidence to suggest hand sanitizer poses a fire hazard when used according to package directions and warnings. To use hand sanitizer:

- 1) Follow manufacturer instructions for use.
- 2) Rub your hands together, covering all surfaces of both hands, including between your fingers and up around your fingertips and nails.
- 3) Rub hands together for 30 seconds to allow your hands to completely absorb the product.
- 4) Allow the hand sanitizer to completely dry.
- 5) Do not touch food or anything until your hands are dry.
- 6) Refer to the Safety Data Sheet (SDS) for hazards information.

Shipping of hand sanitizers must follow special rules which are in effect until July 2, 2020. Hand sanitizers may only be shipped by ground using an Arcadis shipping guide specific to hand sanitizers located on the Transportation Safety Program Team Site. If air shipping is required, contact Sam Moyers or Alec MacAdam for assistance.

4.13.2 Cleaning and Disinfecting Commonly Touched Surfaces

The entity /individual in section 4.9 above is responsible for identifying site worker(s) or a contracted third party for cleaning frequently touched surfaces in our workplaces (field trailers, client facilities, etc.). Commonly touched surfaces (including equipment) must be cleaned and disinfected after use. This includes tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, sinks, hand tools, and portable field instruments (per manufacturer's instructions). Before using a disinfectant product, understand the appropriate uses and limitations of the disinfectant, and refer to equipment/tool manufacturer care instructions to determine whether the disinfectant is compatible (e.g. using isopropyl alcohol to disinfect an iPhone).

The project site is not equipped with soap and water. The scope of work does not indicate the need to have soap and water for handwashing or equipment cleaning and hand sanitizer may be used to meet hand cleaning requirements.

Hand sanitizer is readily available at the project site for worker use.

Disinfecting supplies are readily available on the project site for worker use. If commercially prepared disinfecting supplies become unavailable during the course of work, the CDC and HC have outlined an option to use a diluted household bleach solution (at least 1,000 ppm sodium hypochlorite) as a disinfectant. Standard household bleach is typically 5.25% sodium hypochlorite (52,500 ppm), whereas ultra-strength household bleach is typically 6% sodium hypochlorite (60,000 ppm). In accordance with Hazard Communication requirements, always refer to and have a copy of the Safety Data Sheet (SDS) available and on site with you. To make a daily bleach solution for use as a disinfectant:

- 1) Mix 5 tablespoons (1/3rd cup) of standard bleach per gallon of water or for a smaller spray bottle size dilution, mix 4 teaspoons bleach per quart of water.

OR

- 2) 1 teaspoon (5 mL) per cup (250 mL) OR 4 teaspoons (20 mL) per litre (1000mL).

Note: Solution must be mixed daily, because the solution will lose effectiveness as a disinfectant

after 24-hours.

Follow manufacturer's instructions (e.g., Clorox) for application and proper ventilation, ensuring a contact time of at least 1 minute (for specific products and contact time information. Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. According to the HC, CDC and U.S. EPA, unexpired household bleach will be effective against coronaviruses when properly diluted.

A second alternative is to use an alcohol solution. The solution must have at least 70% isopropanol.

To clean cloth face coverings using a washing machine:

- 1) Face coverings can be washed with regular laundry
- 2) Use regular laundry detergent and the warmest appropriate water setting for the cloth used to make the face covering.
- 3) Use the highest heat setting for the fabric used and leave in the dryer until completely dry.

To clean and disinfect a cloth face covering:

- 1) 5 tablespoons (1/3rd cup) household bleach per gallon of room temperature water or 4 teaspoons household bleach per quart of room temperature water.
- 2) Soak the face covering in the bleach solution for 5 minutes.
- 3) Rinse thoroughly with cool or room temperature water.
- 4) When allowing to air dry, lay flat and allow to completely dry. If possible, place the cloth face covering in direct sunlight.

Note: Check the label to see if your bleach is intended for disinfection. Some bleach products,

4.13.3 Cleaning and Disinfecting Special Considerations

The project site is equipped with a third party controlled permanent restroom facilities. Cleaning and disinfecting of these restroom facilities will be conducted by the third party. The individual specified in section 4.9 will coordinate with the third party to determine cleaning/disinfecting frequency which will then be communicated to the site workers on the project in the COVID-19 briefing specified in section 4.10 above.

The project site is equipped with third party controlled handwashing stations. Cleaning and disinfecting of these handwashing stations will be conducted by the third party. The individual specified in section 4.9 will coordinate with the third party to determine cleaning/disinfecting frequency which will then be communicated to the site workers on the project in the COVID-19 briefing specified in section 4.10 above. The third party should be encouraged to place portable handwashing facilities at least 6 ft (2 m) apart and when collocated with portable restrooms, placed at least 6 ft (2 m) from the portable restroom.

The project site is equipped with a third party controlled fully equipped kitchen. Cleaning and disinfecting of the kitchen facilities will be conducted by the third party. Considerations should be given to closing the kitchen to project workers to reduce worker COVID-19 exposure hazards and minimize cleaning and disinfecting activities; however, any kitchen equipped with a working sink will be open for workers to use the sinks for handwashing, if permitted for such use by the third party. If project workers requires use of a kitchen or small appliance, a COVID-19 hazard assessment will be performed by the individual specified in section 4.9 (or their approved designate) to determine what appliances may be used in the kitchen. Appliances and supplies designated for worker use must be cleaned and disinfected after use by the individual using the

4.14 COVID-19 Prevention Postings

[COVID-19 Exposure Prevention Poster for any project site](#)

4.15 COVID-19 and First Aid/CPR Response

The American Heart Association and Heart & Stroke Foundation of Canada have issued interim hands-only cardiopulmonary resuscitation (CPR) guidelines to reduce the risk when helping victims of cardiac arrest with suspected or confirmed COVID-19. CPR and the use of automated external defibrillators (AED) significantly improve the chance of survival of patients experiencing cardiac arrest. During the COVID-19 pandemic, first aid trained folks and bystanders may feel uncomfortable performing lifesaving CPR and increasing their own risk of contracting the virus.

Hands-only CPR involves performing chest compressions only at a rate of 100 to 120 compressions per minute until an ambulance arrives.

When administering CPR, consider:

- 1) Wearing a face covering.
- 2) Laying a cloth, towel, or clothing over the person's mouth and nose.
- 3) Perform hands-only CPR.
- 4) Use an AED, if available.

Responders complying with established Arcadis bloodborne pathogens (BBP) PPE requirements should meet PTME expectations required by this COVID-19 Plan.

4.16 COVID-19 Reporting

If you have tested positive for COVID-19 or have been asked to be tested for COVID-19 by a medical professional, please notify Brian Kundert. Your identity will remain confidential.

If you learn you have been in close contact with a worker, client or member of the public who is COVID-19 positive:

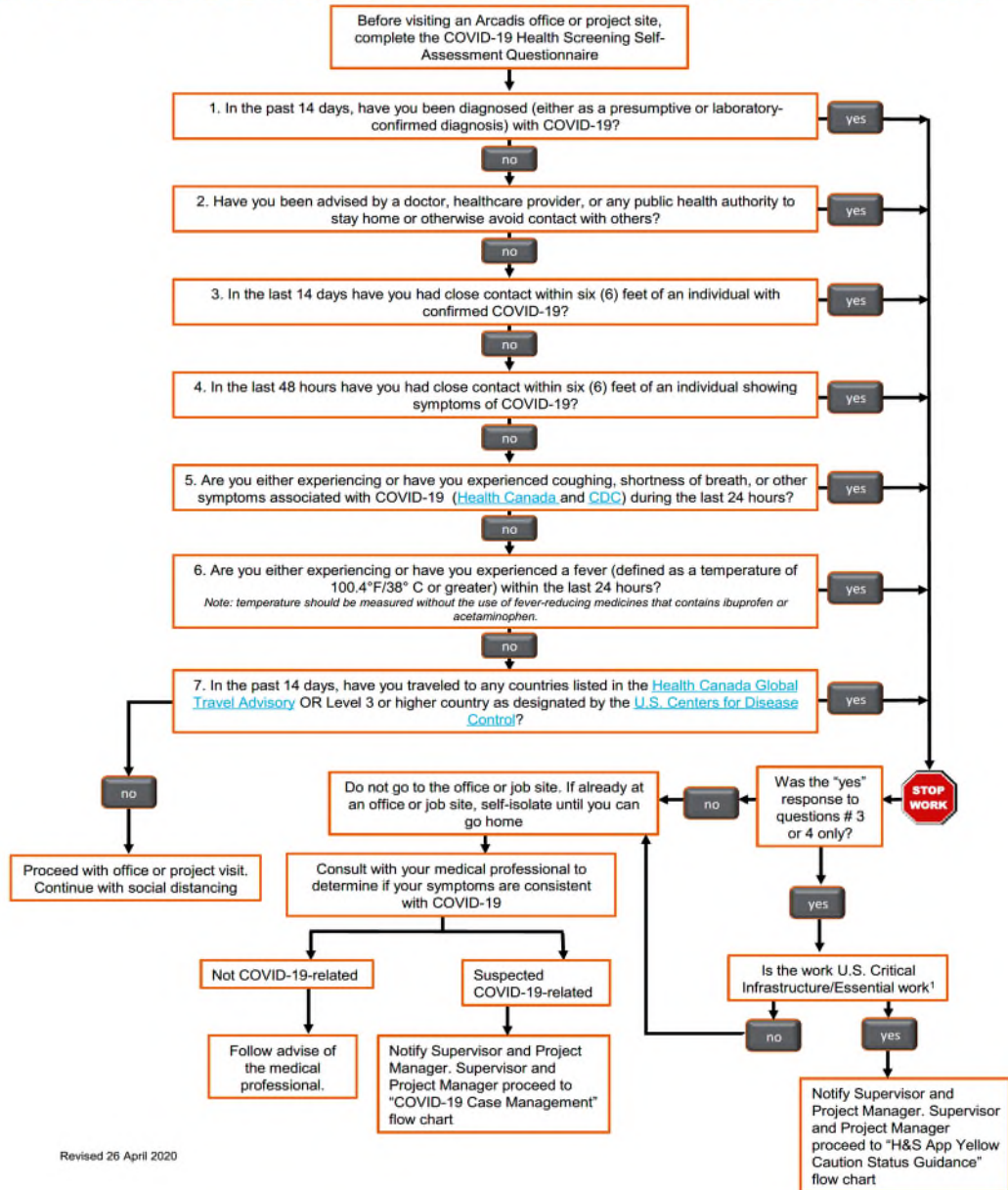
- 1) Stop work.
- 2) Notify your Supervisor and Project Manager.
- 3) Self-quarantine and contact your personal physician for additional direction.
- 4) If you've been tested or asked to be tested for COVID-19 by a medical professional, please notify Brian Kundert. Your identity will remain confidential.

Appendix F provides guidance on what to do if COVID-19 symptoms arise at work. Appendix G provides COVID-19 case management guidance to supervisors and project managers. Finally, Appendix H provides guidance on when to discontinue self isolation after being diagnosed with COVID-19 or being in close contact with an individual diagnosed with COVID-19.

4.17 Employee Questions or Concerns

Employees having questions or concerns about the controls being utilized by Arcadis, subcontractors and/or the client should ask/discuss those questions or concerns with their supervisor or applicable project manager. Technical questions should be addressed to the individual listed in section 4.9 above or may be addressed to the employee's designated business line H&S representative.

COVID-19 Health Screening Self-Assessment Questionnaire Flow Chart



[Health Canada](#)

[U.S. Centers for Disease Control](#)

[Health Canada Global Travel Advisory](#)

[US CDC Travel Guidance](#)

Printable Questionnaires:

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(French\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(French\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and](#)

[Scheduled Visitors \(English\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and](#)

[Scheduled Visitors \(Spanish\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests](#)

[\(English\)](#)

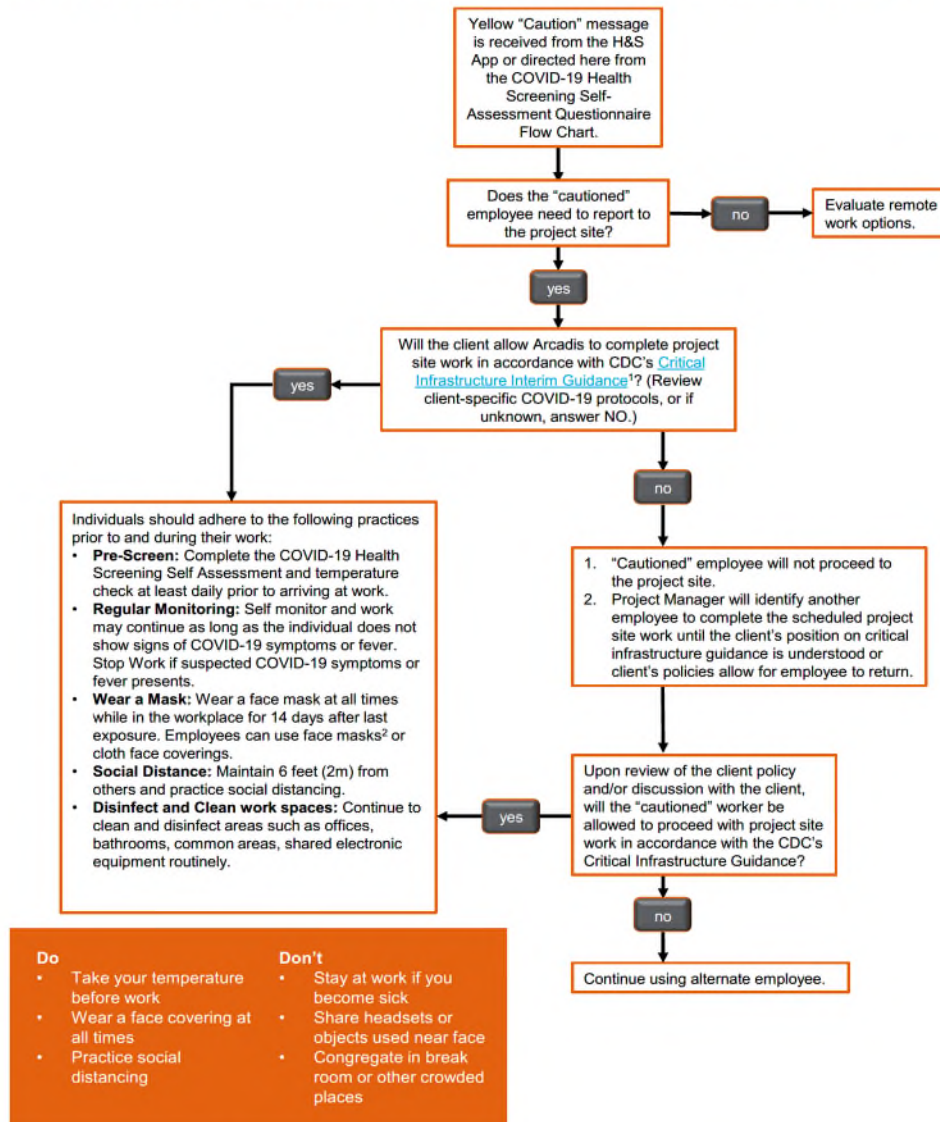
[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests](#)

[\(Spanish\)](#)

[Arcadis Forms and Templates Page](#)

H&S App Yellow Caution Status Guidance

Based on U.S. CDC Public Health Recommendations for Critical Infrastructure Workers



¹CDC advises that critical infrastructure workers may be permitted to continue work following potential exposure to COVID-19, provided they remain asymptomatic and additional precautions are implemented to protect them and the community. The U.S. CDC public health recommendations for [critical infrastructure/essential workers](#) pertains to critical infrastructure workers in 16 different sectors of work.

²Face masks or surgical masks are FDA approved, loose-fitting masks that are fluid resistant and provides the wearer protection against large droplets, splashes, or sprays of bodily or other fluids. Face masks protect others from the wearer's respiratory emissions.

Appendix C

Jurisdiction-Mandated Social Distancing Protocol

Arcadis employees and visitors will adhere to social distancing guidelines. This Social Distancing Protocol is a supplement to meet the requirements of specific jurisdictions requiring a written plan.

The following signs will be posted at the entrance to each active office and project site:

- 1) Stop: Complete the Arcadis COVID-19 Health Screening Self-Assessment Questionnaire
- 2) Stop: Social Distancing
- 3) Novel Coronavirus Prevention Measures
- 4) Arcadis COVID-19 Health Screening Self-Assessment Questionnaire for unscheduled visitors and guests (English and Spanish).

Protecting Employee Health

Arcadis has directed all employees who can complete their work duties from home to not come into the office. Through Location Leader communications and the COVID-19 Plan, Arcadis has reinforced social distancing by maintaining separation of at least 6 feet (2 metres).

All employees have been instructed to not come to work if they do not feel well. Prior to leaving for an office or project site, Arcadis employees and scheduled visitors are requested to complete the COVID-19 Health Screening Self-Assessment Questionnaire. Arcadis staff may use the H&S App to complete their daily (or multiple times a day, if appropriate) COVID-19 Health Screening Self-Assessment. Unscheduled visitors will be asked to complete the self-assessment prior to entering the office or project site.

Face coverings will be worn, as appropriate. Refer to section 4.13.2 of the COVID-19 Plan for cleaning and disinfecting information for cloth face coverings.

Facility Information

Cleaning and disinfection of frequently touched surfaces will be completed at Arcadis office and project locations.

Facility Address:	50 Ossian St.
	Dansville, NY

Cleaning is the responsibility of:	The field team

Cleaning is being performed on the following schedule:

Restrooms:	Third-party
Breakrooms:	Third-party
Other:	

Cleaning and disinfecting supplies are located:

Arcadis

Hand washing stations with soap and water are located:

Third-party

Hand sanitizer stations are located:

Arcadis

☐

Not applicable soap and water will be used.

Copies of this protocol will be posted and distributed to office or project site Arcadis employees.

You may contact the following person with any questions or comments about this protocol.

Name: Veronica Bean

Phone: 201-705-2791

Email: veronica.bean@arcadis.com

Printable Questionnaires:

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(French\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(French\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and](#)

[Scheduled Visitors \(English\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and](#)

[Scheduled Visitors \(Spanish\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests](#)

[\(English\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests](#)

[\(Spanish\)](#)

[Arcadis Forms and Templates Page](#)

Appendix D

Interim Guidance for the Use of Face Coverings

Health Canada and CDC recommends wearing cloth face coverings in public settings when around people outside of their household, especially when other social distancing measures are difficult to maintain. (e.g., grocery stores, pharmacies, big box stores, shipping locations). Wearing cloth face coverings is an additional public health measure people should take to reduce the spread of COVID-19. Health Canada and CDC still recommends that you stay at least 6 feet away from other people (social distancing), frequent hand cleaning and other everyday preventive actions.

According to the CDC, recent studies show that a significant portion of individuals with COVID-19 lack symptoms (“asymptomatic”) and that even those who eventually develop symptoms (“pre-symptomatic”) can transmit the virus to others before showing symptoms. This means that the virus can spread between people interacting in close proximity - for example, speaking, coughing, or sneezing—even if those people are not exhibiting symptoms. Face coverings may help prevent people who have COVID-19 from spreading the virus to others and are recommended as a simple barrier to help prevent respiratory droplets from traveling into the air and onto other people.

Considerations for cloth face coverings:

- 1) Some jurisdictional entities and clients are now requiring the use of cloth face coverings based on Health Canada and CDC guidance.
- 2) A cloth face covering is not intended to protect the wearer, but it may prevent the spread of virus from the wearer to others. This would be especially important if someone is infected but does not have symptoms.
- 3) The cloth face coverings recommended are not surgical masks or N-95 respirators.
- 4) These do not replace other evidence-based measures such as social distancing, frequent hand washing practices, and remaining at home when not doing essential activities.
- 5) People should also be aware that face coverings can become contaminated on the outside or when touched by unwashed hands.
- 5a) Avoid moving the face covering around or adjusting it often.
- 6) Face coverings should not be shared with others.
- 7) Face coverings with exhalation valves or vents should NOT be worn to help prevent the person wearing the mask from spreading COVID-19 to others (source control).

What is a Cloth Face Covering?

A cloth face covering is a material that covers the nose and mouth. It can be secured to the head with ties or straps or simply wrapped around the lower face. This can be made from a variety of materials, such as cotton, silk, linen or non-woven fabrics. A cloth face covering may be disposable; factory-made; homemade or hand-sewn; or can be improvised from household items such as bandana, scarfs, T-shirts, sweatshirts, or towels and can be used as an additional, voluntary public health measure.

Additional Information Concerning KN95 Masks

During periods of shortages of N95 filtering facepiece respirators (FFRs), the federal government advises that FFRs, air-purifying elastomeric respirators, and compatible filters certified under other countries or jurisdictions (e.g., KN95 made in China) will provide greater protection than surgical masks (i.e., facemasks, other than surgical N95s), homemade masks, or improvised mouth and nose covers, such as bandanas and scarves. Certification in accordance with country or jurisdiction standards ensures that devices provide similar filtration as NIOSH-certified equipment and have an assigned protection factor greater than or equal to 10. If the KN95 is not required PPE as part of a regulatory requirement, the KN95 can be used voluntarily. Voluntary users must review Appendix D of 1910.134. If the KN95 is required PPE as part of a regulatory requirement, the Arcadis country-

specific Respiratory Protection H&S Standard applies.

[U.S. Federal Government Guidance on KN95 FFRs](#)



Everyone entering the site must conduct a health screening self-assessment daily

If you are feeling unwell or have the following symptoms,
please leave the premises and contact your healthcare provider
Then follow-up with your supervisor
and the Arcadis Project Manager or Arcadis Local Point of Contact listed below

DO NOT ENTER if you have:



FEVER



COUGH



SHORTNESS
OF BREATH

EMERGENCY – CALL 911

PROJECT ADDRESS:

ARCADIS PROJECT MANAGER:

ARCADIS LOCAL POINT OF CONTACT:



Everyone entering the site must practice social distancing:

No groups larger than 10

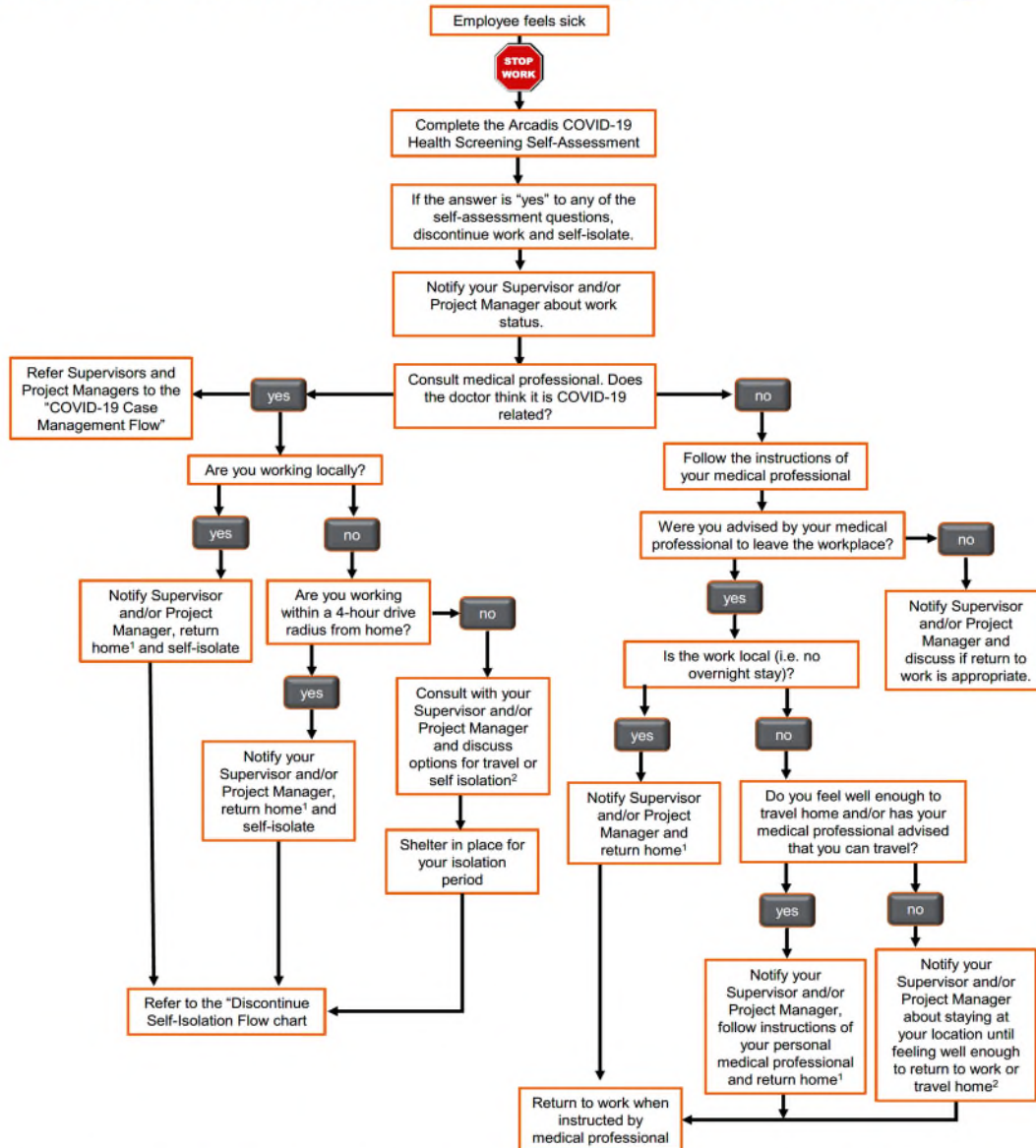
Maintain 6 feet (2 metres) distance to others

Do not shake hands or engage in any unnecessary physical contact

Your cooperation is appreciated



Decision Flow Chart: Becoming Ill While Working

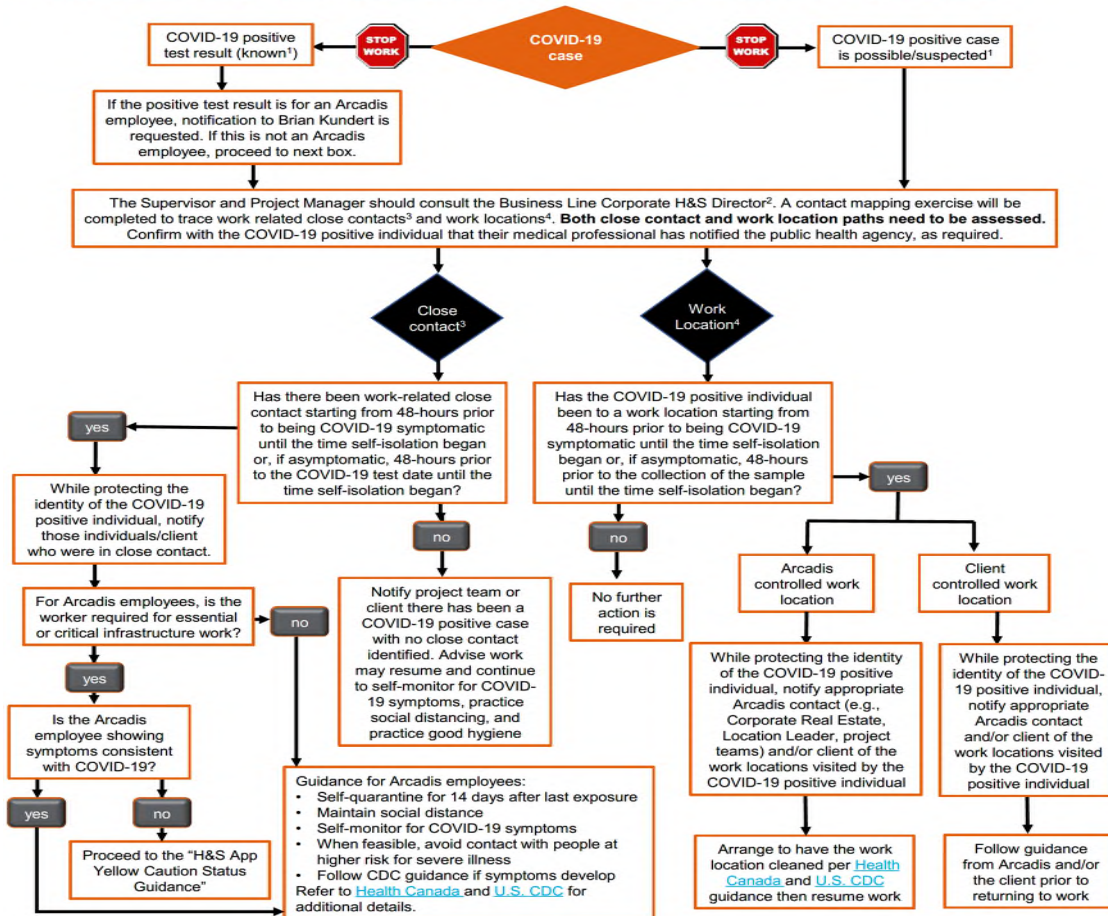


¹ If immediate medical assistance is not recommended by the medical professional and you are feeling well enough, return home. If you do not feel well enough to drive home and alternate transportation arrangements cannot be made, contact Supervisor or Project Manager to discuss options.

² Discuss options and need for sheltering-in-place, understanding that Arcadis will cover the cost of lodging, food delivery arrangements and rental car, if shelter-in-place away from home is required.

COVID-19 Case Management for Supervisors and Project Managers

Based on U.S. Public Health Recommendations for Community-Related COVID-19 Exposure



¹ Known - COVID-19 positive test. Suspected or possible - medical professional has advised the symptoms are consistent with COVID-19.

² Canada - David McClellan, U.S. Corporate - Sam Moyers, U.S. Environment - Denis Balcer, U.S. Infrastructure - Andrew McDonald, U.S. Water - Lauren Hubbard

³ The CDC defines close contact as: a) being within approximately 6 feet (2 m)³ of a COVID-19 case for a prolonged period of time, "close contact can occur while caring for, living with, visiting, or sharing a healthcare waiting area or room with a COVID-19 case - or - b) having direct contact with infectious secretions of a COVID-19 case (e.g., being coughed on).

⁴ Data are limited to define of close contact. Factors to consider when defining close contact include proximity, the duration of exposure (e.g., longer exposure time likely increases exposure risk), whether the individual has symptoms (e.g., coughing likely increases exposure risk) and whether the individual was wearing a facemask (which can efficiently block respiratory secretions from contaminating others and the environment).

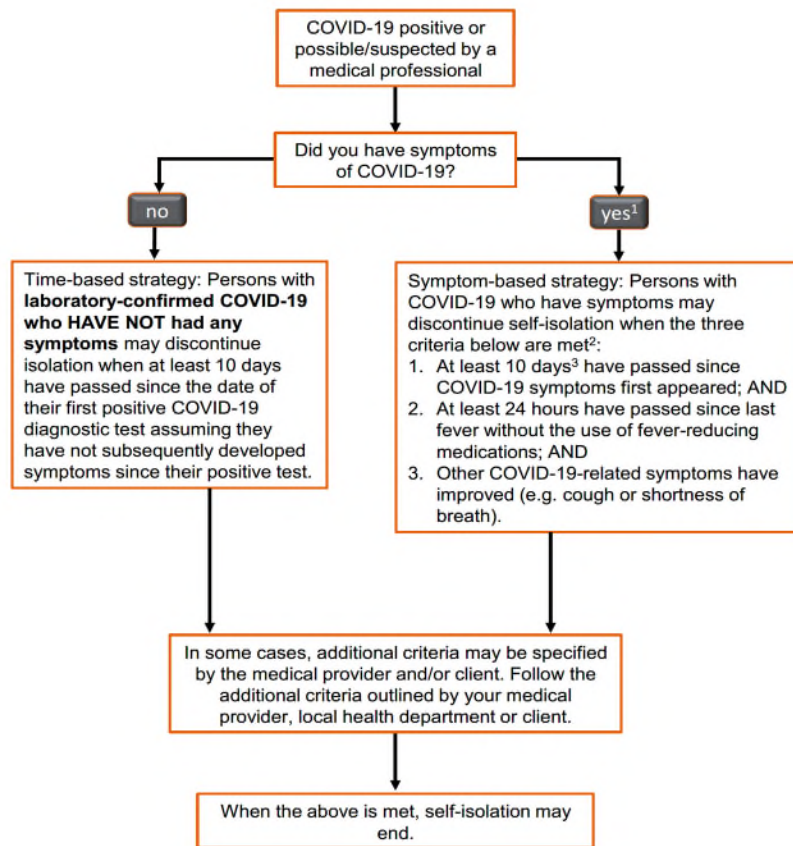
⁵ Data are insufficient to precisely define the duration of time that constitutes a prolonged exposure. Recommendations vary on the length of time of exposure from 10 minutes or more to 30 minutes or more. In healthcare settings, it is reasonable to define a prolonged exposure as any exposure greater than a few minutes because the contact is someone who is ill. Brief interactions are less likely to result in transmission; however, symptoms and the type of interaction (e.g., did the person cough directly into the face of the individual) remain important.

⁶ Work Location examples include Arcadis or client office, client facility, construction trailer, project site.

[Health Canada Workplace Guidance](#)
[U.S. CDC Community Related Exposure Guidance](#)
[Health Canada Cleaning and Disinfecting Guidance](#)
[U.S. CDC Cleaning and Disinfecting Guidance](#)

U.S. CDC Interim Guidance for Discontinuation of Isolation for Persons with COVID-19 Not in Healthcare Settings

Process below is directly from [CDC](#) for individuals who are not [immunocompromised](#)



¹Based on [CDC Discontinuation of Isolation for Persons with COVID-19 Not in Healthcare Settings](#)

²In all cases, follow the guidance of your healthcare provider and local health department. The decision to stop self-isolation should be made in consultation with your healthcare provider and state and local health departments. Local decisions depend on local circumstances.

³A limited number of persons with severe illness may produce replication-competent virus beyond 10 days, that may warrant extending duration of isolation for up to 20 days after symptom onset. Consider consultation with infection control experts. See [Discontinuation of Transmission-Based Precautions and Disposition of Patients with COVID-19 in Healthcare Settings \(Interim Guidance\)](#).

Attachment B

JSAs

Job Safety Analysis

General

JSA ID	HASP 1	Status	Complete
Job Name	General Industry-Driving - passenger vehicles	Created Date	10/30/2020
Task Description	Driving a car, van, or truck on public roadways.	Completed Date	10/30/2020

Client / Project

Client	NYSEG
Project Number	B0013142 / 30003495
Project Name	Dansville Former MGP Site
Project Manager	Jason Golubski

User Roles

Role	Employee	Due Date	Completed Date
Developer	Adam Svensson	10/30/2020	10/30/2020
HASP Reviewer	Bean, Veronica	10/30/2020	10/30/2020
Quality Reviewer			

Job Steps

Job Step No.	Job Step Description		Potential Hazard	Critical Action	H&S Reference
1	Pre-Trip Inspection	1	Failing to perform pre-trip inspections may cause mechanical failure, accident or injury.	Perform walk around of vehicle with particular attention to tire inflation and condition. Check lights, wipers, seatbelts for proper operating condition. Properly adjust seat and mirrors prior to vehicle operation. Use or review vehicle inspection checklist as required under the MVSP.	ARC HSGE024 Motor Vehicle Safety Standard (MVSP)
		2	Scrapes, cuts, burns to hand if inspecting engine fluids and/or tires. Eye splash hazard if inspecting engine fluids. Pinch or crush hazards when opening or closing hood, trunk, or tailgate.	Wear protective gloves and safety glasses as described below when checking under hood or tires. Use TRACK and keep hands clear when opening/closing hood, trunk, or tailgate to avoid crush or pinch hazard.	
		3	Struck by other vehicles while walking around vehicle performing inspections.	Wear high visibility vest, shirt, or coat while performing inspections in parking lots or other areas with a traffic hazard. Remain vigilant of moving vehicles or equipment in area, face oncoming vehicles to extent practical.	
		4	Improperly secured cargo may dislodge creating injury, property damage, or road hazard.	Ensure all cargo is properly secured to prevent movement while the vehicle is in operation. This includes cargo in the cab of the vehicle.	
2	Driving a motor vehicle on public streets	1	Failing to observe traffic flow ahead increases risk of hard braking resulting in potential impact of vehicle ahead, being struck by another vehicle from behind, and decreases decision making time.	Use Smith System Key #1, "Aim High in Steering". Look ahead (15 seconds if possible) to observe traffic flow and traffic signals. Adjust speed accordingly to keep vehicle moving and avoid frequent braking. Select lane of least traffic and adjust speed based on observed signal timing when possible. Avoid following directly behind large vehicles that obscure view ahead.	Smith System "5-Keys" is a registered trademark of Smith System Driver Improvement Institute, Inc.

		2	Failing to observe vehicles, pedestrians, bicyclists, and other relevant objects in vicinity of your vehicle increases risk of side swipes, rear ending, and third party injury.	Use Smith System Key #2, "Get the Big Picture". Maintain 360 degrees of awareness around vehicle. Check a mirror every 6-8 seconds, maintain space around the vehicle, choose a lane that avoids being boxed in. Look for pedestrian activity ahead in crosswalks or sidewalks. Watch for construction zone approach signs and act early by executing lane changes and reducing speed.	
		3	Failing to keep your eyes moving increases risk of not seeing relevant vehicles, pedestrians, and objects in your vicinity that may impair your ability to make timely and appropriate driving decisions and also increases risk of accident.	Use Smith System Key #3, "Keep Your Eyes Moving". Move your eyes every 2 seconds and avoid staring while evaluating relevant objects. Scan major and minor intersections prior to entering them. Check mirrors.	
		4	Failing to maintain space around and in front of your vehicle increases risk of striking another vehicle or being struck by another vehicle. Insufficient space shortens time for effective driving decision making resulting in increased accident risk.	Use Smith System #4, "Leave Yourself an Out". Use 4 second rule when following a vehicle. Avoid driving in vehicle clusters by adjusting speed and using lanes that permit maximum space and visibility. When stopped, keep one car length space in front of vehicle ahead or white line.	
		5	Failing to communicate with other drivers and pedestrians increases risk of striking vehicles, pedestrians, or being struck by other vehicles, especially from the rear.	Use Smith System Key #5, "Make Sure They See You". Brake early and gradually when stopping to reduce potential of being rear ended. Keep foot on brake while stopped. Use turn signals and horn effectively. Establish eye contact with other drivers and pedestrians to extent practical. Use vehicle positioning that promotes being seen.	
		6	Distractions within the vehicle takes focus off driving, increases risk of accident decreases time for making effective driving decisions.	Cell phone use (any type or configuration) is prohibited while the vehicle is in motion. Familiarize yourself with vehicle layout and controls (radio, temperature controls, etc.) prior to operating unfamiliar vehicles. Set controls prior to operating vehicle. Use GPS in unfamiliar areas to avoid use of paper maps/directions while driving. Set GPS prior to vehicle operation. Pull over and stop to modify GPS functions. Avoid consuming food or drink while driving.	
3	Parking	1	Parking vehicle in areas of clustered parked vehicles or near facility entrance may impair visibility to oncoming traffic in lot and increase exposure to pedestrian traffic.	Use pull through parking or back into parking space when permitted or practical. When practical and safe to do so, park away from other vehicles and avoid parking near the facility entrance or loading docks. If available, use a spotter to aid in backing activity. Back no further than necessary and back slowly. Get out and look (GOAL) if uncertain of immediate surroundings. Tap horn prior to backing.	

PPE Personal Protective Equipment

Type	Personal Protective Equipment	Description	Required
Eye Protection	safety glasses	While checking engine or tires	Required
Hand Protection	work gloves (specify type)	Leather or equivalent checking engine or	Required

Supplies

Type	Supply	Description	Required
Communication Devices	mobile phone		Required
	other	Vehicle kit (applies to company trucks)	Required
Miscellaneous	fire extinguisher	Applies to company trucks	Required
	first aid kit	Applies to company trucks	Required

Job Safety Analysis

General

JSA ID	166	Status	(3) Completed
Job Name	Environment-Sample cooler handling	Created Date	5/1/2009
Task Description	Sample cooler handling	Completed Date	05/13/2009
Template	True	Auto Closed	False

Client / Project

Client	Arcadis AGMI
Project Number	000000100000
Project Name	GENERAL OVERHEAD
PIC	
Project Manager	

User Roles

Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	Coppola, Mija	12/19/2011	5/11/2009	Coppola, Mija	☐
HASP Reviewer	Moyers, Samuel	5/25/2009	5/13/2009	Hubbard, Lauren	☒

Job Steps

Job Step No.	Job Step Description	Potential Hazard	Critical Action	H&S Reference
1	Transfer field samples to sample packing area	1 Lifting heavy coolers may result in muscle strain especially to lower back.	Use proper lifting techniques and keep back straight. Use buddy system for large coolers, Use mechanical aids like hand trucks if readily available to move coolers. Do not over fill coolers with full sample containers for temporary movement to the sample prep area. Ensure an adequate supply of sample coolers are in field.	
		2 Hazards to hands from broken glass caused by over tightening lids or improper placement in cooler	Inspect all bottles and bottle caps for cracks/leaks before and after filling container. Do not over tighten sample lids. Clean up any broken bottles immediately, avoid contact with sample preservatives. Wear leather gloves when handling broken glass.	
		3 Exposure to chemicals (acid preservatives or site contaminants) on the exterior of sample bottles after filling.	Wear protective gloves for acid preservatives and safety glasses with side shields during all sample container handling activities (before and after filling), Once filled follow project specific HASP PPE requirements for skin and eye protection.	
		4 Samples containing hazardous materials may violate DOT/IATA HazMat shipping regulations	All persons filling a sample bottle or preparing a cooler for shipment must have complete ARCADIS DOT HazMat shipping training. Compare the samples collected to the materials described in the Shipping Determination for the Project and ensure consistent. Re-perform all Shipping determinations if free product is collected and not anticipated during planning.	
2	Sample cooler selection	1 Sample coolers with defective handles, lid hinges, lid hasps cracked or otherwise damaged may result in injury (cuts to hands, crushing of feet if handle breaks etc)	Only use coolers that are new or in like new condition, No rope handled coolers unless part of the manufacturer's handle design.	ARCADIS Shipping Guide US-001
		2 Selection of excessively large coolers introduces lifting hazards once the cooler is filled.	Select coolers and instruct lab to only provide coolers of a size appropriate for the material being shipped. For ordinary sample shipping sample coolers should be 48 quart capacity or smaller to reduce lifting hazards.	
3	Pack Samples	1 Pinch points and abrasions to hands from cooler lid closing unexpectedly	Beware that lid could slam shut; block/brace if needed; be wary of packing in strong winds. New coolers may be more prone to self closing, tilt cooler back slightly to facilitate keeping lid open.	

3	Pack Samples	2	Awkward body positions and contact stress to legs and knees when preparing coolers on irregular or hard ground surfaces.	Plan cooler prep activities. Situate cooler where neutral body positions can be maintained if practical, like truck tailgate. Avoid cooler prep on rough gravel surfaces unless knees and legs protected during kneeling.	
		3	Frostbite or potential for oxygen deficiency when packing with dry ice. Contact cold stress to fingers handling blue ice or wet ice	Dry ice temperature is -109.30F. Wear thermal protective gloves. DO NOT TOUCH with bare skin! Dry ice sublimates at room temp and could create oxygen deficiency in closed environment. Maintain adequate ventilation! Do not keep dry ice in cab of truck. Wear gloves when handling blue ice or gaging wet ice. Dry Ice is DOT regulated for air shipping, follow procedures in Shipping Determination.	
4	Sealing, labeling and Marking Cooler	1	Cuts to hands and forearms from strapping tape placement or removing old tape and labels	Do not use a fixed, open-blade knife to remove old tags/labels, USE SCISSORS or other safety style cutting device. Only use devices designed for cutting. Do not hurry through task.	
		2	Lifting and awkward body position hazards from taping heavy coolers, dropping coolers on feet during taping.	Do not hurry through the taping tasks, ensure samples in cooler are evenly distributed in cooler to reduce potential for overhanging cooler falling off edge of tailgate/table when taping.	
		3	Improper labeling and marking may result in violation of DOT/IATA HazMat shipping regulations delaying shipment or resulting in regulatory penalty	Do not deviate from ARCADIS Shipping Guide or Shipping Determination marking or labeling requirements.	
5	Offering sample cooler to a carrier or lab courier for shipment.	1	Lifting heavy coolers may result in muscle strain especially to lower back.	See lifting hazard controls above.	
		2	Carrier refusal to accept cooler may cause shipping delay and/or result in violation of DOT HazMat shipping regulations.	Promptly report all rejected and refused shipments to the ARCADIS DOT Program Manager. Do Not re-offer shipment if carrier requires additional labels markings or paperwork inconsistent with your training or Shipping Determination without contacting the ARCADIS DOT Compliance Manager.	

PPE Personal Protective Equipment			
Type	Personal Protective Equipment	Description	Required
Eye Protection	safety glasses		Required
Hand Protection	chemical resistant gloves (specify type)	nitrile	Required
	work gloves (specify type)	leather	Required

Supplies			
Type	Supply	Description	Required
Miscellaneous	Other	Scissors	Required

Review Comments		
Reviewer	Comments	
Employee: Role Review Type Completed Date	Moyers, Samuel HASP Reviewer Revise 5/11/2009	Kevlar is required? Leather work gloves are listed. i suggest just leather gloves.
Employee: Role Review Type Completed Date	Moyers, Samuel HASP Reviewer Approve 5/13/2009	

Job Safety Analysis

General

JSA ID	45	Status	(3) Completed
Job Name	Environment-Groundwater Sampling and free product recovery	Created Date	2/4/2009
Task Description	Groundwater sampling	Completed Date	02/06/2009
Template	True	Auto Closed	False

Client / Project

Client	Arcadis AGMI
Project Number	000000100000
Project Name	GENERAL OVERHEAD
PIC	
Project Manager	

User Roles

Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	Mason, Greg	6/1/2018	2/4/2009	Balcer, Denis	☒
HASP Reviewer	Coppola, Mija	2/6/2009	2/6/2009	Coppola, Mija	☐

Job Steps

Job Step No.	Job Step Description	Potential Hazard	Critical Action	H&S Reference
1	Stage at pre-determined sampling location and set up work zone and sampling equipment	1 Personnel could be hit by vehicular traffic	Set up cones and establish work area. Position vehicle so that field crew is protected from site traffic. Unload as close to work area as safely possible.	
		2 Vehicles parked too close to stationary objects may strike them when driving from location.	Park vehicle so first movement is forward. Park in a location that will be free of stationary objects, such as bollards, monitoring wells, fence posts, etc. when the vehicle pulls forward. Avoid backing! At work locations where space is not restricted, leave a minimum of _____ feet between the work vehicle and the nearest stationary object.	
		3 Sampling equipment, tools and monitoring well covers can cause tripping hazard	Keep equipment picked up and use TRACK to assess changes.	
2	Open wells to equilibrate and gauge wells	1 When squatting, personnel can be difficult to see by vehicular traffic.	Wear class II traffic vest if wells are located proximal to vehicular traffic. Use tall cones and the buddy system if practicable.	
		2 Pinchpoints on well vault can pinch or lacerate fingers	Use correct tools to open well vault/cap. Wear leather gloves when removing well vault lids, and chemical protective gloves while gauging. Wear proper PPE including safety boots, knee pads and safety glasses.	
		3 Lifting sampling equipment can cause muscle strain	Unload as close to work area as safely possible; use proper lifting and reaching techniques and body positioning; don't carry more than you can handle, and get help moving heavy or awkward objects.	
		4 Pressure can build up inside well causing cap to release under pressure	Keep head away from well cap when removing. If pressure relief valves are on well use prior to opening well	
3	Begin Purging Well and Collecting Parameter Measurements	1 Electrical shock can occur when connecting/disconnecting pump from the battery.	Make sure equipment is turned off when connecting/disconnecting. Wear leather gloves. Use GFCIs when using powered tools and pumps. Do not use in the rain or run electrical cords through wet areas.	
		2 Purge water can spill or leak from equipment	Stop purging activities immediately, stop leakage and block any drainage grate with absorbent pads. Call PM to notify them of any reportable spill.	
		3 Water spilling on the ground can cause muddy/slippery conditions	Be careful walking in work area when using plastic around well to protect from spillage	

3	Begin Purging Well and Collecting Parameter Measurements	4	Lacerations can occur when cutting materials such as plastic tubing	When cutting tubing, use tubing cutter. No open fixed blades should ever be used. When possible wear work gloves, leather type.	
		5	Purge water can splash into eyes	Pour water slowly into buckets/drums to minimize splashing. Wear safety glasses.	
4	Collect GW or Free Product Sample	1	Working with bailer rope can cause rope burns on hands.	Slowly raise and lower the rope or string for the bailer. Wear appropriate gloves for the task.	
		2	Sample containers could break or leak preservative	Discard any broken sampleware or glass properly. Do not overtighten sample containers. Wear chemical protective gloves.	
5	Recovery of Free Product from well	1	Exposure to free product	Additional chemical protection may be necessary based on the type of product. Additionally, safety goggles, a faceshield, or respiratory protection may be required. Verify in the HASP.	
6	Staging of Well Purge water and/or Free Product	1	Muscle strains can occur when moving purge water or drums	If using buckets, do not fill buckets up to the top. Always keep lid on buckets when traveling or moving them to another location. Only half fill buckets so when dumping the buckets weigh less. See drum handling JSA for movement of drums.	Drum handling JSA

PPE Personal Protective Equipment			
Type	Personal Protective Equipment	Description	Required
Dermal Protection	long sleeve shirt/pants		Recommended
Eye Protection	safety glasses		Required
Foot Protection	steel-toe boots		Required
Hand Protection	chemical resistant gloves (specify type)	Nitrile	Required
	work gloves (specify type)	leather	Required
Head Protection	hard hat		Required
Hearing Protection	ear plugs		Recommended
Miscellaneous PPE	other	Knee pads	Required

Supplies			
Type	Supply	Description	Required
Communication Devices	mobile phone		Required
Decontamination	Decon supplies (specify type)	alconox, DI water, spray bottle	Required
Miscellaneous	fire extinguisher		Required
	first aid kit		Required
	flashlight		Required
Personal	eye wash (specify type)	bottle	Required
	insect repellent		Recommended
	sunscreen		Recommended
Traffic Control	barricades		Recommended
	traffic cones		Required

Review Comments		
Reviewer	Comments	
Employee: Role Review Type Completed Date	Coppola, Mija HASP Reviewer Approve 2/6/2009	

Job Safety Analysis

General

JSA ID	44	Status	(3) Completed
Job Name	Environment-Drilling, soil sampling, well installation	Created Date	2/4/2009
Task Description	Drilling, and well installation	Completed Date	12/08/2017
Template	True	Auto Closed	False

Client / Project

Client	
Project Number	30019733
Project Name	US010 US Extra Time Overhead Project
PIC	
Project Manager	

User Roles

Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	McDonald, Andrew	12/22/2017	12/8/2017	Hubbard, Lauren	☒
Developer	Merkle, Kurt	12/22/2017	12/8/2017	Merkle, Kurt	☐
HASP Reviewer	McDonald, Andrew	12/22/2017	12/8/2017	Hubbard, Lauren	☒
Quality Reviewer	Abou Abdallah, Said	12/11/2017	12/11/2017	Carpenter, Matt	☒

Job Steps

Job Step No.	Job Step Description	Potential Hazard	Critical Action	H&S Reference
1	Set up necessary traffic and public access controls	1 Struck by vehicle due to improper traffic controls	Use a buddy system for placing site control cones and/or signage. Position vehicle so that you are protected from moving traffic. Wear Class II traffic vest	
2	Utility Clearance	1 Potential to encounter underground or above ground utilities while drilling.	Complete utility clearance in accordance with the ARCADIS Utility Clearance H&S Standard.	ARCADIS H&S Standard ARCHSFS019
3	General drill rig operation	1 Excessive noise is generated by rig operation.	When the engine is used at high RPMs or soil samples are being collected, use hearing protection.	
		2 During drill rig operation, surfaces will become hot and cause burns if touched, and COCs in the soils more readily vaporize generating airborne contaminates.	Due to friction and lack of a drilling fluid, heat will be produced during this method. Mainly drill augers. Be careful handling split spoons. Wear proper work gloves. When soils and parts become heated, the COC could volatilize. Air monitoring should always be performed in accordance with the HASP.	
		3 Moving parts of the drilling rig can pull you in causing injury. Pinch points on the rig and auger connections can cause pinching or crushing of body parts.	Stay at least 5 feet away from moving parts of the drill rig. Know where the kill switch is, and have the drillers test it to verify that it is working. Do not wear loose clothing, and tie long hair back. Avoid wearing jewelry while drilling. Cone off the work area to keep general public away from the drilling rig.	
		4 Dust and debris can cause eye injury and soil cuttings and/or water could contain COCs.	Wear safety glasses and stay as far away from actual drilling operation as practicable. Wear appropriate gloves to protect from COCs.	
		5 Drilling equipment laying on the ground (i.e. augers, split spoons, decon equipment, coolers, etc), create a tripping hazard. Water from decon buckets generate mud and cause a slipping hazard.	Keep equipment and trash picked up, and store away from the primary work area.	
		6 The raised derrick can strike overhead utilities, tree limbs or other elevated items	Never move the rig with the derrick up. Ensure there is proper clearance to raise the derrick, and that you are far enough away from overhead power lines. See the Utility Clearance H&S Standard for guidance.	

4	Mudd rotary drilling	1	The raised derrick can strike overhead utilities, tree limbs or other elevated items.	Never move the rig with the derrick up. Ensure there is proper clearance to raise the derrick, and that you are far enough away from overhead power lines. See the Utility Location H&S policy and procedure for guidance.	
		2	This technology uses fluid, which collects with sediments in large basin. Fluid can splash out and cause slipping/mud hazard. Liquid mixture can splash into your eyes.	Wear rubber boots if needed, and keep clear of muddy/wet area as much as practicable. If area becomes excessively muddy, consider mud spikes or covering the area with a material that improves traction. Wear safety glasses.	
5	Hollow stem auger drilling	1	All hazards in step 3 apply. Additionally, The raised derrick can strike overhead utilities, tree limbs or other elevated items	Never move the rig with the derrick up. Ensure there is proper clearance to raise the derrick, and that you are far enough away from overhead power lines. See the Utility Location H&S policy and procedure for guidance.	
		2	Hands or fingers can get caught and crushed if trying to clean by hand or with tools while the auger is still turning.	Auger should always be stopped and clutch disengaged prior to cleaning.	
6	Air Rotary Drilling	1	This drilling method works with high air pressure and can generate flying debris that can strike your body or get in your eyes.	When the drill rig is being driven into media, it will produce flying debris. The flaps behind the drill rig should stay closed whenever possible to reduce the risk of flying debris. Safety glasses and hard hat should always be worn when the drill rig is operating. When penetrating asphalt, protect surrounding cars that may be present to avoid damage to paint or windshields.	
		2	The raise derrick can strike overhead utilities, tree limbs or other elevated items.	Never move this rig with the derrick up. Ensure there is proper clearance to raise the derrick and that you are far enough away from overhead power lines. See the Utility clearance H&S Standard for guidance.	
		3	When drilling through bedrock prior to groundwater, dust can be produced from pulverization. Inhalation of dusts/powder can occur.	Supplemental water should be used to manage dust and/or dust masks should be used if necessary.	
7	Reverse rotary drilling	1	This method will use fresh water to pump out drill cuttings through the center of the casing. Water/sediment mixture is generated and could cause contact with impacted soils or groundwater.	Ensure the pit construction can hold the amount of cuttings that are anticipated. Air monitoring should also be used of pit area.	
		2	Fire hydrants are often used for water source. Hydrants deliver water at high pressure. Pressurized water can cause flying parts/debris and excessive slipping hazards.	Water usage from fire hydrants should be cleared with local municipalities prior to use. Only persons that know how to use the hydrant should be performing this task. Ensure all connections are tight, and hose line is not run over to cut by traffic. Any leaks from the hydrant should be reported immediately.	
		3	Settling pit construction can cause tripping hazard from excavated soils, and plastic sheeting can cause slipping.	Cone off the area to keep the general public/visitors away from the settling pit. Ensure proper sloping of excavation.	
		4	The raised derrick can strike overhead utilities, tree limbs or other elevated items.	Never move the rig with the derrick up. Ensure there is proper clearance to raise the derrick, and that you are far enough away from overhead power lines. See the Utility Location H&S policy and procedure for guidance.	

8	Rotosonic drilling	1	Fire hydrants are often used for water source. Hydrants deliver water at high pressure. Pressurized water can cause flying parts/debris and excessive slipping hazards.	Water usage from fire hydrants should be cleared with local municipalities prior to use. Only persons that know how to use the hydrant should be performing this task. Ensure all connections are tight, and hose line is not run over to cut by traffic. Any leaks from the hydrant should be reported immediately.	
		2	This method requires a lot of clearance. The drill head can turn 90 degrees to attach to the next drill flight or casing. This usually requires a large support truck to park directly behind the rig. As the drill head raises the new casing flight is angled down at the same time until it can be turned completely vertical.	Ensure sufficient overhead clearance.	
		3	Heavy lifting of cores can cause muscle strain.	Always use 2 people to move core containers. Use caution moving core samples to layout area. Plan layout area to ensure adequate aisle space between core runs for logging. Keep back straight and use job rotation.	
		4	The rotosonic drill head can move very quickly up and down while working on a borehole. Moving parts can strike someone or catch body parts.	The operator and helper must communicate and stay clear of the path of the drill head. The drill utilizes two large hydraulic clamps to continuously hold casings while load/unloading previous casings. Do not wear loose clothing.	
9	Direct push drilling	1	The drill rods will be handled by workers most of the time rather than the rig doing it, therefore pinch points can cause lacerations and crushing of fingers/body parts.	Keep a minimum of 5 feet away from drill rig operation and moving parts.	
		2	The direct push rigs are usually meant to fit in spaces where larger rig can't. Tight spaces can pin workers.	Do not put yourself between the rig and a fixed object. Use Spotters or a tape measure to ensure clearances in tight areas. Pre-plan equipment movement from one location to the next.	
		3	Some direct push equipment is controlled by wireless devices. These controls can fail and equipment can strike workers or cause damage to property.	The drill rig should be used in a large open area to test wireless controls prior to moving to boring locations. The operator of the rig will test the kill switch with wireless remote prior to use. Operator will stay in range of rig while moving so that wireless signal will not be too weak and cause errors to the controls.	
		4	Sampling sleeves must be cut to obtain access to soil. Cutting can cause lacerations.	It's preferable to let the driller cut the sleeves open. Many drillers have holders for the sleeve to allow for stability when cutting. If you cut the sleeves, use a hook blade, change blade regularly, and cut away from the body.	
		5	Soil cores may contain contaminated media.	Wear nitrile gloves and safety glasses for protection from contaminated media when logging soil borings.	
10	Rock coring	1	Flying debris can hit workers or cause debris to get in eyes.	Rock chips or overburden may become airborne from drilling method. Wear safety glasses and hard hat and remain at a safe distance from back of drill rig.	
		2	Heavy lifting of cores can cause muscle strain.	Always use 2 people to move core containers. Use caution moving core samples to layout area. Plan layout area to ensure adequate aisle space between core runs for logging. Keep back straight and use job rotation.	

11	Sample collection and processing	1	Injuries can result from pinch points on sampling equipment, and from breakage of sample containers.	Care should be taken when opening sampling equipment. Look at empty containers before picking them up, and do not over-tighten container caps. Use dividers to store containers in the cooler so they do not break.	Sample Cooler Handling JSA
		2	Lifting heavy coolers can cause back injuries.	Use two people to move heavy coolers. Use proper lifting techniques.	
12	Monitoring well installation	1	Same hazards as in Step 3 with general drill rig operation	See step 3	
		2	Monitoring well construction materials can clutter the work area causing tripping hazards.	Well construction materials should be picked up during the well installation process.	
		3	Heavy lifting can cause muscle strains, and cutting open bags can cause lacerations.	Well construction materials are usually 50 lbs or greater. Team lift or use drill rig to hoist bags. Always use work gloves while cutting open bags.	
		4	Well pack material (i.e. sand, grout, bentonite) can become airborne and get in your eyes.	Wear safety glasses for protection from airborne sand and dust.	
		5	Cutting the top of the well to size can cause jagged/sharp edges on the top of the well casing.	Wear gloves when working with the top of the well casing, and file any sharp jagged edges that resulted from cutting to size.	
13	Soil cutting and purge water management	1	Moving full drums can cause back injury, or pinching/crushing injury.	Preferably have the drilling contractor move full drums with their equipment. If this is not practicable, use lift assist devices such as drum dollies, lift gates, etc. Employ proper lifting techniques, and perform TRACK to identify pinch/crush points. Wear leather work gloves, and clear all walking and work areas of debris prior to moving a drum.	Drum Handling JSA

PPE Personal Protective Equipment			
Type	Personal Protective Equipment	Description	Required
Eye Protection	safety glasses		Required
Foot Protection	steel-toe boots		Required
Hand Protection	chemical resistant gloves (specify type)	Nitrile	Required
	work gloves (specify type)	leather	Required
Head Protection	hard hat		Required
Hearing Protection	ear plugs		Required
Miscellaneous PPE	traffic vest--Class II or III		Required
Respiratory Protection	dust mask		Recommended

Supplies			
Type	Supply	Description	Required
Communication Devices	mobile phone		Required
Decontamination	Decon supplies (specify type)	Driller to provide and manage	Recommended
Miscellaneous	fire extinguisher		Required
	first aid kit		Required
Personal	eye wash (specify type)	bottle	Required
	water/fluid replacement		Recommended
Traffic Control	traffic cones		Required

Review Comments		
Reviewer		Comments
Employee: Role Review Type Completed Date	McDonald, Andrew HASP Reviewer Approve 12/8/2017	
Employee: Role Review Type Completed Date	Abou Abdallah, Said Quality Reviewer NA 12/11/2017	Useful hints to consider when attending field soil borings for utility type work.

Job Safety Analysis

General

JSA ID	7983	Status	(3) Completed
Job Name	Environment-Drum sampling/handling	Created Date	7/26/2012
Task Description	Drum Handling, Sampling and Transfer of Drum Contents	Completed Date	07/26/2012
Template	True	Auto Closed	False

Client / Project

Client	Arcadis AGMI
Project Number	000000100000
Project Name	GENERAL OVERHEAD
PIC	
Project Manager	

User Roles

Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	Betancourt, Ketzia	8/16/2012	7/26/2012	Betancourt, Ketzia	☐
HASP Reviewer	Hubbard, Lauren	8/9/2012	7/26/2012	Polinsky, Heather	☒
Quality Reviewer	Hubbard, Lauren	7/27/2012	7/27/2012	Polinsky, Heather	☒

Job Steps

Job Step No.	Job Step Description	Potential Hazard	Critical Action	H&S Reference
1	Inspect Drums for signs of Bulging, Leaking, Crystals, Temperature, and Odor	1 Exposure to chemicals stored in drum or container.	Read drum labels for information about contents. Review all relevant MSDSs about chemical contents. If labels are not attached, call PM or Local H&S Representative.	None
		2 Contents of the drum can cause fire/explosion hazard.	Use air monitoring meters to screen drums. % LEL and VOCs (PPM). If either of the values are above the action levels described in the HASP or MSDS then Stop Work, move away from the area, and reassess the situation. Call PM and H&S staff for support.	
2	Remove lids or bungs from Drums	1 Hand Injuries can occur from sharp edges, pinch points, and from use of hand tools.	Wear appropriate work gloves. When removing ring from drum, fingers can get pinched between ring and drum. Keep fingers clear of this space. Select proper tool for task. If large amount of drums will be encountered, use a speed or drum wrench.	Employee H&S Field book, Section III Subpart II, page 104. Also Section III Subpart L, page 38.
		2 Rapid depressurization from empty or partially full drums can cause flying parts or volatile COCs releasing on staff.	Do not handle or open bulging drums (contact Corp H&S for assistance). Bleed any built up pressure by carefully loosening bung prior to removing ring. Keep face and arms away from bung opening when loosening. Slightly lift lid, insert end of air monitoring device to monitor air inside drum.	
		3 Use of mechanical tools to remove bolts from drum lids causes excessive noise.	Wear hearing protection.	
		4 Splashing can occur if filling drum, or collecting samples.	Wear eye and face protection. Pour liquids into drum slowly to minimize splashing.	
		5 When working with COCs that have fire/explosive properties, sparking or heat could cause fire/explosion.	Use brass or non Spark Hand Tools if such a hazard exists or is suspected.	
3	Sample Contents from Drums	1 Exposure to COCs can occur by contacting impacted contents.	Select proper dermal protection for task, at a minimum nitrile gloves should be worn. Wear appropriate eye face and body protection as outlined in the HASP.	
		2 Staff can be exposed to chemical vapors/fumes when sampling.	Conduct air monitoring as outlined in the HASP, and if required, select appropriate respiratory protection for the task.	
		3 Sharp edges and broken sample containers can cause lacerations.	Discard any broken sample ware or glass properly. Do not over tighten sample containers.	

3	Sample Contents from Drums	4	Chemical burns or skin irritation can occur from contact with sample preservatives.	Wear chemical protective gloves when collecting samples, or when handling damaged sample containers.	
4	Replace drum lids	1	Hand Injuries can occur from sharp edges, pinch points, and from use of hand tools.	see step 2 above	
5	Moving and Storing Drums	1	Drum storage areas can be accessed by the general public, or may not be secure.	Calculate how many drums will be stored in new location. Ensure that drums are not easily accessed by the general public. Do not store such that drums impede pedestrian or vehicular traffic.	
		2	Muscle strain can occur when lifting/pulling/pushing drums.	Drums that are full can weigh as much as 800 lbs. Use a lift assist device whenever possible, and use a team lift approach. When moving soil drum generated by drilling, have drillers use their equipment to move the drums. Using dolly, slightly lift drum away from dolly to install forks under drum. Slowly let drum come back down and rest on dolly. Using hook on top of dolly, ensure it latches on top of drum bung.	
		3	Body parts can be pinched between lift device, or drum and the ground.	Be aware of hand and foot placement during drum staging. Do not hurry through task.	
		4	When moving, the drum can tip or the dolly could become unstable from uneven ground surface.	Plan travel route with drum prior to moving. With drum secure on dolly, have one employee pull back on dolly, and other employee slowly push back on drum toward dolly. Have second worker act as spotter for traffic, pedestrians, and any trip hazards along the way.	

PPE Personal Protective Equipment			
Type	Personal Protective Equipment	Description	Required
Dermal Protection	chemical protective suit (specify type)		Required
Eye Protection	faceshield		Required
	safety goggles		Required
Hand Protection	chemical resistant gloves (specify type)	Nitrile	Required
	work gloves (specify type)		Required
Hearing Protection	ear plugs		Required

Supplies			
Type	Supply	Description	Required
Miscellaneous	Other	dolly	Required

Review Comments		
Reviewer	Comments	
Employee: Role Review Type Completed Date	Hubbard, Lauren HASP Reviewer Approve 7/26/2012	
Employee: Role Review Type Completed Date	Hubbard, Lauren Quality Reviewer NA 7/27/2012	Reviewed by Corporate H&S Department

Attachment C

Traffic Safety Plan



Traffic Safety Plan (TSP)

1.0 General

Plan type	Non-Right of Way (Non-ROW)
Project Name:	Dansville Former MGP Site
Project Number:	30003495
Developer Name:	Nicholas Beyrle
Duration of Project (in hours or days):	5 days
Time Restrictions (Y/N, if Y describe below):	No Time restrictions
Not Applicable	
Not Applicable	
Not Applicable	NA
Not Applicable	
Not Applicable	NA
☐ Working on multiple roads?	

Comments: Work to be performed on private property and not in roadway.

2.0 Work Description

Provide a brief description of scope of work:

Groundwater sampling of monitoring wells on private property.

3.0 Type and Duration

Work locations on this project will be: Intermediate work (1-8 hours per location)

Non-ROW work will be performed in:

Special traffic conditions may include (select most prevalent): Not applicable

4.0 Traffic Control Layout, Number of Devices Required, and Phasing

The following Non-ROW requirements in the Traffic Safety Handbook applies:

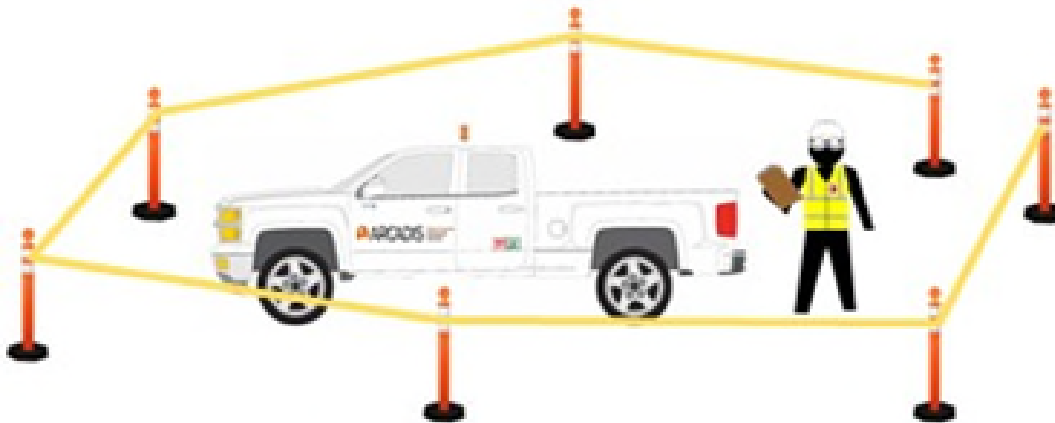
Section 7.3 Intermediate Duration Work in Parking Areas (1 to 8 Hours) (DOT Facts-302b)

The menu below will be blank and is not applicable.

The menu below will be blank and is not applicable.

Non-ROW configuration:

An example non-ROW traffic control configuration for this project is illustrated below. The actual type and number of devices required are specified below. Don't leave vehicle doors open. Don't establish controls within 25 ft of the front or rear of parked large vehicles/rolling equipment without coordinating with the vehicle/equipment operator.

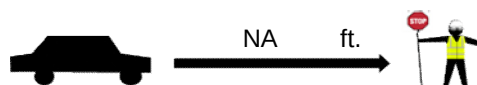


Intermediate Term (1-8 Hours) Channelizing Cones with Caution Tape

ROW minimum sign spacing distances for "A", "B" and "C" (as applicable) in referenced DOT Facts.

A	NA	ft.
B	NA	ft.
C	NA	ft.

ROW oncoming traffic minimum site distance required to see Flagger and properly decelerate and stop.



ROW Cone Calculation (Values are default. Light grey fields may be modified based on actual road conditions)

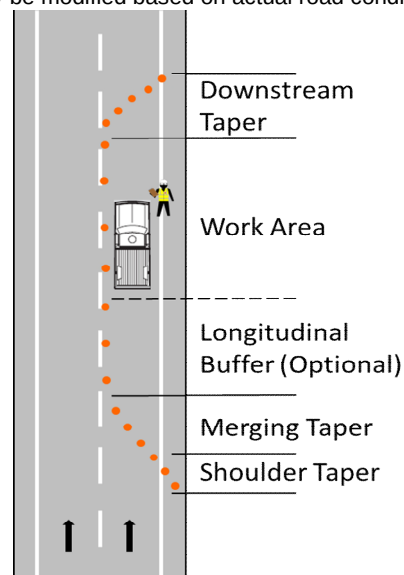
Active work area length (feet)	200
☐ Apply Optional Longitudinal Buffer (ft)?	0
Lane width of offset (feet)	12
Shoulder width of offset (feet)	8
Posted speed limit	NA

☐ Shoulder Taper

Taper Length (feet)	NA
Cones Required	NA
Cones Spacing (max., ft)	NA

☐ Merging Taper

Taper Length (feet)	NA
Cones Required	NA
Cones Spacing (max., ft)	NA



☐**Work Area**

Cone Spacing (max., ft) NA
 Cones Required NA

Note: Review taper configuration and cone spacing after ROW implementation to ensure traffic is moving efficiently without motorist confusion in the RWZ.

☐**Downstream Taper**

Taper Length (feet) NA
 Cones Required NA
 Cone Spacing (max., ft) NA

Cones Required (minimum) NA

Select the traffic control devices to be used and enter number each required:			Non-ROW Phasing:
Check all that apply:	Wording or Pictogram	Number:	
☐ Warning signs			1) Position truck as shield, if practical 2) Deploy traffic control devices 3) Affix flags, caution tape or fencing 4) Unload project equipment 5) Commence work 6) SSO to maintain controls 7) Remove controls in reverse order
☐ Warning signs			
☐ Warning signs			
☐ Stop/Slow paddle			
☐ Red flag			
☐ Drums			
☐ Channelizer cone (42 inch height, 10 lb base)			
☐ Channelizer cone (42 inch height, 30 lb base)			
☐ Traffic cones ($\geq$ 18 inches tall)		NA	
☐ Barricade:			
☐ Flags for cones			
☐ Lights (for night work)			
☐ Plastic fencing (rolls)			
☐ Caution tape (rolls)			
☐ Other (specify):			

Electronic Device Use Safety

Electronic devices (tablets, laptops and cell phones) used to collect data or document activities in active parking lots must be used in a manner that does not interfere with the user's ability to see and react to vehicle movements in the work area. If this requirement cannot be maintained, a spotter must be used. When possible position vehicle to act as a shield. Short-term traffic control scenarios provided by this TSP are not authorized if a spotter is not used.

Reviewed By:

HASP Reviewer:

Veronica L. Bean

Attachment D

Forms

Control Number: TSM- B0013142 / 30003495

TSM + project number plus date as follows: xxxxxxxx.xxxx.xxxxx - dd/mm/year

TAILGATE HEALTH & SAFETY MEETING FORM

Project Name: _____ Project Location: _____

Date: _____ Time: _____ Conducted by: _____ Signature/Title: _____

Issues or concerns from previous day's activities:

Task anticipated to be performed today:

☐ Additional permits/checklists attached**USE TRACK! Evaluate the hazards (h) for the tasks being performed today and rank as Low (L), Medium (M) or High (H). Use relevant JSAs, FHSB, permit or other work standard to communicate controls (c) to be used to eliminate or mitigate identified hazards.**☐ Gravity (i.e., ladder, trips) (L M H) ☐ Motion (i.e., traffic, machinery) (L M H) ☐ Mechanical (i.e., augers, motors) (L M H)h: _____
c: _____h: _____
c: _____h: _____
c: _____☐ Electrical (i.e., utilities) (L M H) ☐ Pressure (i.e., gas cyl., wells) (L M H) ☐ Environment (i.e., heat, cold) (L M H)h: _____
c: _____h: _____
c: _____h: _____
c: _____☐ Chemical (i.e., fuel, acid, paint) (L M H) ☐ Biological (i.e., ticks, poison ivy) (L M H) ☐ Radiation (i.e., alpha, sun, laser) (L M H)h: _____
c: _____h: _____
c: _____h: _____
c: _____☐ Sound (i.e., machinery) (L M H) ☐ Personal (i.e. alone, night) (L M H) ☐ Driving (i.e. car, ATV, boat) (L M H)h: _____
c: _____h: _____
c: _____h: _____
c: _____☐ Refer to the attached Hazard Analysis Sheet(s) or JSA

Comments:

Signature and Certification: I have read and understand the project specific HASP for this project.

SSE Employee*	Non-Life Threatening Injury or Illness Call WorkCare 1-888-449-7787		
	Printed Name/Signature/Company	Sign In Time	Sign Out Time
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			
☐			

I will **STOP** the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.

I will **be** alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.

If it is necessary to **STOP THE JOB**, I will perform **TRACK**; and then amend the hazard assessments or the HASP as needed.

I will **not assist** a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done **TRACK** and I have thoroughly controlled the hazard.

All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.

In the event of an injury, employees will call **WorkCare at 1.888.449-7787** and then notify the field supervisor.

Utility strike, motor vehicle accident or 3rd party property damage - field supervisor will immediately notify the Project or Task Manager

*Short Service Employee (SSE) working for Arcadis <1 year.

THIS FORM MUST BE ENTIRELY COMPLETED PRIOR TO BEGINNING ANY INTRUSIVE WORK

Project Name: Dansville Former MGP Site Start Date: _____

Project #: B0013142 / 30003495 End Date: _____

*Utility markings valid for 15 days. Initiate clearance renewal 5 days prior to expiration for ongoing work***PRE-FIELD WORK REQUIREMENTS**DigSafe 811 notified 48-72 hrs. in advance of work? ☐ DigSafe Ticket #: _____Ticket Expiration Date: _____ [State Utility Laws: www.commongroundalliance.com/map](http://www.commongroundalliance.com/map)Ticket(s) Attached(Y/N)? ☐ List utility owners notified via DigSafe 811 & response status: _____

List addtl. utilities requiring notification not included in DigSafe811 Notice: _____

*Review task details w/ private utility location subcontractor. ID work areas, clearance equipment needed, depth of clearance needed, types of features, utilities, anticipated/known/unknown. Verify DigSafe 811 markings to confirm public utility clearance.*Private Utility Locator Name, if used: _____ AUS onsite meeting (Y/N)? ☐**FIELD WORK REQUIREMENTS***This portion of the checklist must be completed on site. AUS staff must have a minimum of one year of field experience in identifying utilities to complete the checklist. Field staff will review the completed checklist with PM or designee prior to beginning intrusive work.**Heavy equipment/mechanized intrusive work w/in the Arcadis Tolerance Zone (utility or structure present within 30-in. of point of work) REQUIRES pre-approval by Corporate H&S prior to working at all such locations. STOP WORK if the Arcadis Tolerance Zone work has not been approved.*

List work type & locations for utility location and clearance as applicable to this checklist: _____

3 Reliable Lines of Evidence are REQUIRED for EACH INTRUSIVE LOCATION prior to starting any subsurface intrusive work. Check corresponding boxes below to document utility clearance efforts.☐ OneCall/DigSafe 811 Public Utility Locate (required by State law for subsurface work)
811 is only reliable as a Line of Evidence when working in/adjacent to a public ROW or easement.Marking type: ☐ Paint ☐ Pin Flags/Stakes ☐ Other: _____ ☐ None☐ Client provided maps/drawings (Y/N)? ☐ Maps/drawings not provided (Y/N)?☐ Client Clearance (Y/N)? Name(s)/Affiliation(s): _____☐ Interviews (Y/N)? Name(s)/Affiliation(s): _____☐ Specific subsurface feature types and depths provided by person interviewed (Y/N)?

Details provided: _____

☐ Site Inspected (Y/N)? (document on Pg. 2.) Photo Document Marked Utilities & Structures☐ Public records/Client Dwgs/As-Builts (Y/N)? Type: _____List private locator tools used: ☐ Radio Freq. Detection ☐ Electromagnetic ☐ GPR☐ Metal Detector ☐ Acoustic Pipe Locator ☐ Downhole sonde Other: _____☐ Soft Dig Methods used (Y/N)? ☐ Hand auger ☐ Probing ☐ Hand tools (shovel/rake)☐ Air knife ☐ Hydro Knife ☐ Potholing/Vacuum extraction☐ Other soft dig tools used (Y/N)? If Yes, list here: _____

ALL BOXES BELOW MUST BE COMPLETED BEFORE PROCEEDING

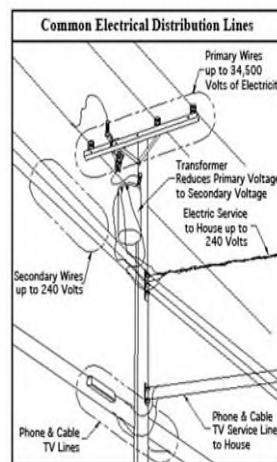
Site inspection also requires investigating vicinity outside of the work area for structures and utilities.

Noting "YES" requires add'l. investigation. Utilities must be field marked prior to intrusive work.

Is the utility present (Y/N)?	Utility Color Code	Is the utility present (Y/N)?	Utility Color Code
☐ Utilities entering/exiting structures?	No Color	☐ Evidence of stormwater network?	Green
☐ Intrusive work area marked out?	White	☐ Curb drains/catch basins/manholes?	Green
☐ Structural features above or below?	White	☐ Stormwater culverts, outfalls?	Green
☐ Public natural gas line or meter?	Yellow	ABOVEGROUND Features Present?	
☐ Private natural gas laterals/feeders?	Yellow	☐ Transportation tunnels/structures/markers present?	
☐ Public electrical service?	Red	☐ Overhead electrical lines?	Red
☐ Conduit from meter or on wall?	Red	☐ < 50 kV w/in 10 ft of work area?	Red
☐ Conduit from poles into ground?	Red	☐ >50-200 kV w/in 15 ft of work area?	Red
☐ Poles/devices w/ no visible lines?	Red	☐ >200-350 kV w/in 20 ft of work area?	Red
☐ Overhead electrical lines?	Red	☐ >350-500 kV w/in 25 ft of work area?	Red
☐ Solar arrays or wind turbines?	Red	☐ >500-750 kV w/in 35 ft of work area?	Red
☐ Public water line(s)?	Blue	☐ >750-1000 kV w/in 45 ft of work area?	Red
☐ Private water line(s) or lateral(s)?	Blue	☐ Aboveground fire suppression?	Blue
☐ Water meter onsite?	Blue	☐ Aboveground communications?	Orange
☐ Fire hydrants/post indicator valves?	Blue	☐ Aboveground chases/racks/trays?	Orange
☐ Irrigation system control box/valve?	Blue	☐ Private/Remediation system lines?	Various
☐ Sprinkler heads, drip lines, vaults?	Blue	☐ Unclassed utilities/anomalies?	Pink
☐ Water dispensers, fill stations?	Blue	☐ Warning signs/stakes/markers present?	
☐ Telecomm. overhead or buried?	Orange	☐ Heavy Equipment: Mark travel route for overhead, next to route, and/or under route (e.g. crush risk) utilities.	
☐ Telecomm. ground box or relays?	Orange	Signs of other utilities/ground disturbance	
☐ Telecomm./security CCTV devices?	Orange	☐ Signs of asphalt or concrete disturbance/repair?	
☐ Public sanitary sewer pipes?	Green	☐ Any ground subsidence or change in vegetation?	
☐ Combined sanitary/storm pipes?	Green	☐ Unknown manholes or valve covers in work area?	
☐ Private sanitary laterals/clean outs?	Green		
☐ Restrooms, kitchens, wash bays?	Green		

Tips for Thorough Utility Location (HSS Section 5.6):

1. Don't forget to look up for utilities
2. Be on-site with Private Utility Locators.
3. Ask Private Locators to "confirm" other's markings.
4. Also clear alternate/backup locations
5. Mark all known utilities.
6. No hammering, no pickaxes, no digging bars, no shortcutting.
7. No excessive turning or downward force of hand tools, especially hand augers.
8. Utilities may run in or directly under asphalt/concrete
9. Heavy equipment may damage shallow utilities. Especially during clearing and grubbing.
10. Use spotter for heavy equipment near aboveground utilities?



☐ Utilities & Structures Checklist reviewed by the PM or Designee (Y/N)? *If no, STOP WORK call PM*
 PM or Designee Name: _____

Name and Signature of person completing the checklist _____

Date of checklist review / update: _____

ALL SUSPECT UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION WITHIN 24 hrs. OF KNOWLEDGE OF STRIKE WITH A CONFIRMED RESPONSE FROM CORPORATE H&S.

PID Calibration Log



Zero Gas Source:	_____	Instrument Type:	_____	PAGE ____ of ____
Lot Number/Expiration Date:	_____	Serial Number:	_____	
Calibration Gas Source:	_____	Instrument Type:	_____	
Lot Number/Expiration Date:	_____	Serial Number:	_____	
Concentration:	_____		_____	

[illegible]

Task Improvement Process

General

Observed Company: _____

Observation Type: _____

TIP Form: H&S Field Multi-Task (General)

Task Observed: _____

Observee Name: _____

Observer Name: _____

Observation Date: _____

Project Number: B0013142 / 30003495

Project Name: Dansville Former MGP Site

Supervisor: _____

Equipment On Site: _____

Pertinent Information: _____

Observation

Task	Correct	Questionable	Comments
General			
PPE worn according to HASP/JLA specifications and inspected before use?			
STOP work authority used where appropriate?			
Body Use/Positioning			
Proper lifting/pushing/pulling techniques used (no awkward positions/posture; no twisting or excessive reaching; no straining; no excessive weight; load under control/stable; etc.)?			
Body parts away from pinch points (clear or protected from being caught between objects/equipment or from contacting sharp objects/edges, etc.)?			
Body parts not in the Line of Fire (protected from being struck by traffic, equipment, falling/flying objects, etc.)?			
Work Procedures/Environment			
Correct type and number of barricades/warning devices/cones?			

Communication with others when necessary (hand signals, flags, etc.)?			
Right tools and equipment selected for the job and inspected before use?			
Tools and equipment used properly?			
Housekeeping performed (work areas and pathways clear of hazards, uneven surfaces addressed, etc.)?			
Slip/trip/fall hazards addressed (path selected and cleared, eyes on path, speed footing, etc.)?			
Proper energy control (electrical systems grounded, lock out/tag out performed, isolated, cords/fixtures in good condition, GFCI inspected and utilized when appropriate and used properly, etc.)?			
Protected from overhead/underground utilities (proper clearance, properly marked, spotters as necessary, etc.)?			
Safe work on/near water (appropriate flotation device, appropriate boat for body of water and operation of boat, etc.)?			
Chemical/Radiation protection (decontamination zones set up properly, air monitoring, completed, and logged, etc.)?			
Fall from elevated height prevention (maintains 3-points of contact, appropriate ladder, mounting/dismounting vehicle/equipment, fall arrest system, etc.)?			
Any additional safety issues identified:			

Tip Summary Enter details of the TIP and follow up discussion provide details on how any questionable items were resolved.

Discussion following the TIP led by: _____

Date of follow-up discussion: _____

Positive Comments:

Discussion Summary Completed:

☐	Supervisor Led
☐	Peer to Peer
☐	Arcadis Employee to Subcontractor

Summary of Questionable Items

Action Items (Optional) Assign appropriate action items based on the observations made. You can add more than one action item if needed.

Item #	Action Item	Responsible Person	Due Date	Comp. Date
1				
2				
3				

Standard Review

Reviews to be performed after entry of this TIP into 4-Sight.

Quality Review

Quality Reviews to be performed after entry of this TIP into 4-Sight.

Field Validation and Verification

Use the 4-Sight generated copy of this TIP to perform field V&V activities.

Arcadis Weekly Vehicle Inspection Form

Vehicle # / License Plate #

Lease Plan # / Last 6 of Vin #

		Inspection Date			Odometer reading			Driver / Inspector Name			Check the appropriate box and enter repair date for identified repairs:		
		OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date
Interior	Horn operational												
	Door Locks operational												
	Seat Belts in good repair												
	Seats and Seating Controls												
	Steering Wheel - No Excessive Play												
	Interior Lights and Light Controls												
	Instrument Panel/Gauges												
	Wiper Controls operational												
	Heat/Defrost/Air Conditioning working												
	Rear View Mirror present												
	Backup Camera/Sensors working												
Exterior ¹	Jack and Lug Wrench present												
	Lights and Signals operational												
	Tires properly inflated/good tread depth												
	Spare Tire properly inflated												
	Doors operational												
	Windows Not Cracked/Damaged												
Engine & Brakes	Side View Mirrors												
	Body Panels and Bumpers												
	Engine Start & Running Smoothly												
	Fluid Levels, No Noticeable Leaks												
Emergency Equipment ²	Belts tight, no cracks												
	Brakes operational, no squeaking												
	First Aid Kit, inspected weekly												
	Fire Extinguisher properly secured												
	Fire Extinguisher inspected weekly												
	Orange/Yellow emergency warning light												
Cargo	Roadside Assistance Information												
	Recommend spotter cones available												
Registration	Cargo Secure and Properly Distributed												
	Securing Devices in Good Condition												
	License Plate /Tags												
	Registration and Insurance												
	City/State Inspection Decal												
	Lease Plan information/Fuel Card												

¹ Note all damages to the vehicle on the back of this page

² Emergency Equipment required per Motor Vehicle Standard ARC HSGE024

Note All Vehicle Damage Below

All Vehicle Damage must be reported to Sue Berndt (Corporate Legal), Andrew McDonald (Corporate H&S), and Roger Elliot (Corporate Fleet Manger)

CODES:	B-BENT BR-BROKEN BU-BULGE C-CHAFED CH-CHIPPED CPM-COVERED WITH PROTECTIVE MATERIAL-UNABLE TO DETERMINE DEFECTS IF ANY CSA-CHAFED AND SCRATCHED ALL OVER CR-CRACKED D-DENTED	DMC-DUST AND MUD COVERED UNABLE TO DETERMINE OTHER DEFECTS IF ANY G-GOUGED OR CUT GC-GLASS CRACKED HS-HAIRLINE SCRATCH M-MISSING	P-PUNCTURED R-RUSTY S-SCRATCHED SC-SCRAPED SM-SMASHED ST-STAINED AND/OR SOILED T-TORN

CARS

TRUCKS

VANS/BUSES

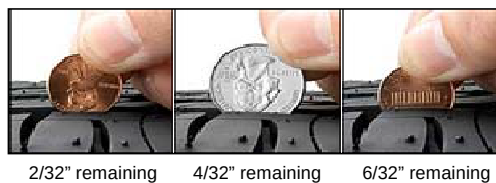
-INDICATE ON DIAGRAM-

-GIVE DIMENSIONS-

-CIRCLE WHERE APPLICABLE-

Notes:

Tread guide: If a tread gauge is not available coins may be used to determine remaining tread. 2/32" is the minimum by law in most states (top of Lincoln's head on penny), 4/32" is minimum recommended for wet surfaces (top of Washington's head on quarter), 6/32" is minimum recommended for snowy surfaces (top of Lincoln Memorial on penny). Vehicle tires should be replaced if the tread depth is less than 6/32".



Reference JSA 10907 For Weekly Vehicle Inspection

Attachment E

Shipping Determination



SHIPPING/TRANSPORTATION DETERMINATION FORM

Regulated Material Shipping Determination for Non-Bulk Consignments Only

Date:	11/3/2020
Project Name:	Dansville Former MGP Site
Project Number:	30003495
Supplemental Information:	None

1) Description of the Material to be Transported or Shipped

1a	Select a description category ==>	Free Product
1b	Dense non-aqueous phase liquids containing the following constituents	
1c	Benzene, PAHs	

- ☒ This material is mixed with water, soil or other inert material
- ☐ This material will be shipped on wet or blue ice
- ☐ Consignment contains dry ice
- ☐ Consignment contains containers with acid/base preservatives prepared by an analytical laboratory.
- ☐ Check if you are working at a gas station or a bulk petroleum facility

2) Classification and Identification

2a	This material is:	Hazardous Material		
Complete sections 2b and 2c below				
Complete for Hazardous Materials ONLY:				
2b	UN/NA/ID# :	UN1136	2c PG:	II
			Primary Hazard Class:	3
			Subsidiary Hazard Class:	NA
PSN:	Coal tar distillates, flammable			

Add the word "mixture" or "solution" in cell G30 above if not already included in the

- ☐ See Section 7a

2d	This material is a:	No additional criteria applies to this material

3) Packaging, Exceptions and Shipping Information

3a	Packaging Type:	Combination Package - Non-Bulk
3b	Inner Container Category:	Glass receptacles
3c	Number and Quantity:	

	Number	Container type	Net Qty. Each Container	
Largest Container Type =>	2	4 oz Glass	4 oz	=> Select units here
Container type #2	0	None None	None	TIP: Do not place
Container type #3	0	None None	None	the white color
Container type #4	0	None None	None	the largest con
Container type #5	0	None None	None	bottle set in row
Container type #6	0	None None	None	

3d	Intermediate Packaging:	Absorbent lined bag
3e	Outer Packaging:	SAMPLE COOLER (Non-specification box- plastic)
3f	Other:	None Type: None

- ☐ Overnight AIR shipping for next day delivery is required

Your suggested shipping configuration (**excluding MOT**):

DOT Road Limited Quantity Exception

This material will be shipped (mode of transport and type of shipment):

3g Road using a DOT exception

If using an exception/exemption, list the exception/exemption below

3h DOT Limited Quantity

Carrier/Transporter information:

3i FedEx Ground

3j Auth. Air Limits for EQ, LQ and Fully Reg. Shipments and Selected Ground LQ and SQE:

Inner Container Limit (NA- Not Applicable; F- Forbidden; mg, g, or kg for solids; ml or L for liquids):

Glass	NA	NA
Metal	NA	NA
Plastic	NA	NA

Plastic Bag
Paper Bag
Fibre

NA	NA
NA	NA
NA	NA

Outer Package Limit

NA	NA
0.23656	L/Kg

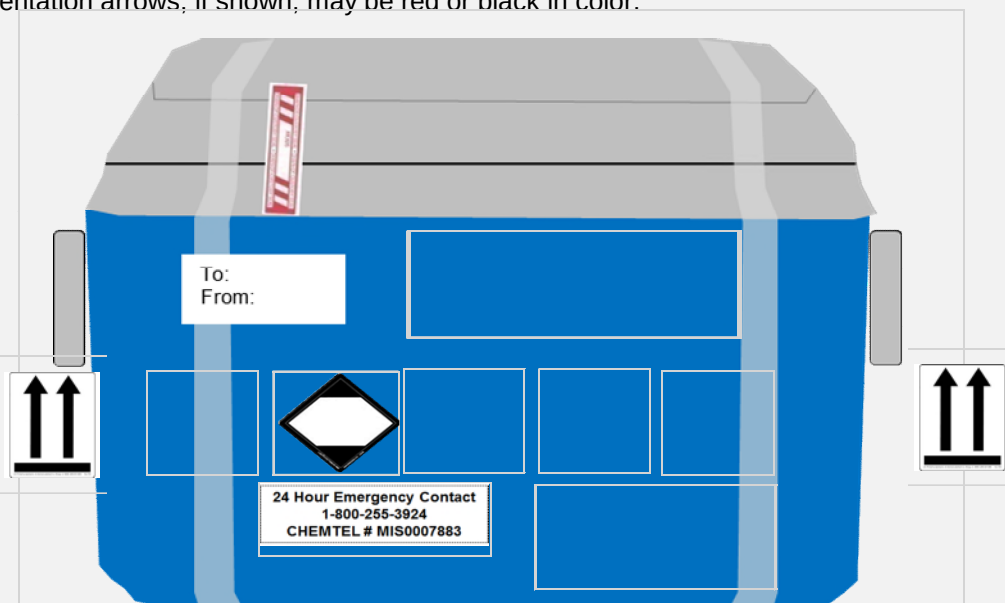
Total net volume/mass:

- ☒ Arcadis Shipping Guide US-001 attached
- ☐ Specific package closure instructions are attached
- ☒ Arcadis Shipping Guide or HSSP is available for this shipment:

HSSP-003

4) Marks and Labels for Non-Bulk Packages

Orientation arrows, if shown, may be red or black in color.



Place all marks and labels checked in this section on same side of package (excludes orientation arrows, if s



QUICK VIEW SHIPPING DETERMINATION FORM

Revision 12b

For Use by Field Staff

Date:	11/3/2020
Project Name:	Dansville Former MGP Site
Project Number:	30003495

This Determination applies to:

The material you will be shipping includes the following:

Dense non-aqueous phase liquids containing the following constituents

If this is not what you are shipping or if you need help, contact 0
at 0 for assistance and guidance.

The material in your shipment has been classified as a: **Hazardous Material**

This material has been identified as:

PROPER SHIPPING NAME (including applicable modifiers and technical names):

Coal tar distillates, flammable

ID NUMBER: **UN1136** Hazard Class 3 (NA) Packing Group NA

☐	The above information in RED is required on the outer package of your shipment as illustrated in the picture		
☒	Follow Shipping Guide US-001 to prepare this shipment	☐	Follow Shipping Guide US-015 for dry ice
☒	Refer to the referenced HSSP to right for more information:	HSSP-003	

Package preparation configuration per package shipped (not to exceed):

Inner container sizes and quantity:	# of containers	Size	Type	Net Qty Each
	2	4 oz	Glass	4 oz
	0	None	None	0 None
	0	None	None	0 None
	0	None	None	0 None
	0	None	None	0 None
	0	None	None	0 None

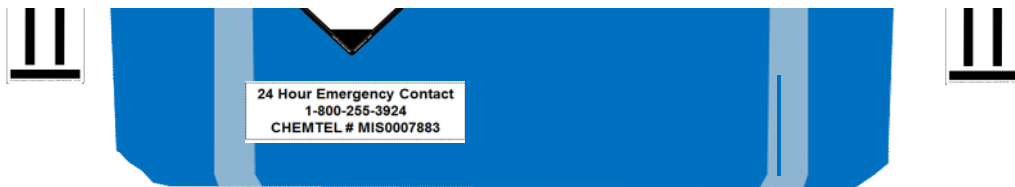
Intermediate packaging: Absorbent lined bag

Outer packaging: SAMPLE COOLER (Non-specification box- plastic)

Gross package weight must not exceed 66 pounds.

Place marks and labels on same side of package, except orientation arrows should be placed on each end of package.





If you do not have all of the marks or labels shown above. DO NOT GIVE THE PACKAGE TO FEDEX or UPS. Orientation arrows may be red colored. If required, contact the individual listed above for assistance.

☒ Your supervisor (PM, TM, or Field supervisor) must register this shipment with ChemTel (the Arcadis 24 hour emergency phone number provider).

You must offer this shipment to: **FedEx Ground**

Attachment F

SDSs

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**1 Identification of the substance/mixture and of the supplier****1.1 Product identifier****Trade Name:** Alconox**Synonyms:****Product number:** Alconox**1.2 Application of the substance / the mixture :** Cleaning material/Detergent**1.3 Details of the supplier of the Safety Data Sheet****Manufacturer**Alconox, Inc.
30 Glenn Street
White Plains, NY 10603
1-914-948-4040**Supplier**

Not Applicable

Emergency telephone number:**ChemTel Inc**

North America: 1-800-255-3924

International: 01-813-248-0585

2 Hazards identification**2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:Tetrasodium Pyrophosphate
Sodium tripolyphosphate
Sodium Alkylbenzene Sulfonate**2.2 Label elements:**

Skin irritation, category 2.

Eye irritation, category 2A.

Hazard pictograms:**Signal word:** Warning**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents and container as instructed in Section 13.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**Additional information:** None.**Hazard description****Hazards Not Otherwise Classified (HNOC):** None**Information concerning particular hazards for humans and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients**3.1 Chemical characterization :** None**3.2 Description :** None**3.3 Hazardous components (percentages by weight)**

Identification	Chemical Name	Classification	Wt. %
CAS number: 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
CAS number: 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
CAS number: 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

3.4 Additional Information : None.**4 First aid measures****4.1 Description of first aid measures****General information:** None.**After inhalation:**

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**4.2 Most important symptoms and effects, both acute and delayed**

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None**5.2 Special hazards arising from the substance or mixture :**

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters**Protective equipment:**

Wear protective eye wear, gloves and clothing.

Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.

Avoid contact with skin, eyes and clothing.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures :**

Ensure adequate ventilation.

Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None**7 Handling and storage****7.1 Precautions for safe handling :**

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015

Revision : 12.10.2015

Trade Name: Alconox

8 Exposure controls/personal protection



8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	White and cream colored flakes - powder	Explosion limit lower: Explosion limit upper:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	Vapor pressure at 20°C:	Not determined or not available.
Odor threshold:	Not determined or not available.	Vapor density:	Not determined or not available.
pH-value:	9.5 (aqueous solution)	Relative density:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	Solubilities:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	Partition coefficient (n-octanol/water):	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	Auto/Self-ignition temperature:	Not determined or not available.
Evaporation rate:	Not determined or not available.	Decomposition temperature:	Not determined or not available.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015

Trade Name: Alconox			
Flammability (solid, gaseous):	Not determined or not available.	Viscosity:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity**10.1 Reactivity :** None**10.2 Chemical stability :** None**10.3 Possibility hazardous reactions :** None**10.4 Conditions to avoid :** None**10.5 Incompatible materials :** None**10.6 Hazardous decomposition products :** None**11 Toxicological information****11.1 Information on toxicological effects :****Acute Toxicity:****Oral:**

: LD50 > 5000 mg/kg oral rat - Product .

Chronic Toxicity: No additional information.**Skin corrosion/irritation:**

Sodium Alkylbenzene Sulfonate: Causes skin irritation. .

Serious eye damage/irritation:

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

Respiratory or skin sensitization: No additional information.**Carcinogenicity:** No additional information.**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.**NTP (National Toxicology Program):** None of the ingredients are listed.**Germ cell mutagenicity:** No additional information.**Reproductive toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:** No additional information.**12 Ecological information**

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015

Revision : 12.10.2015

Trade Name: Alconox

12.1 Toxicity:

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.
 Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.
 Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.
 Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.
 Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

14.1 UN Number: None
 ADR, ADN, DOT, IMDG, IATA

14.2 UN Proper shipping name: None
 ADR, ADN, DOT, IMDG, IATA

14.3 Transport hazard classes:
 ADR, ADN, DOT, IMDG, IATA

Class:	None
Label:	None
LTD. QTY:	None

US DOT
Limited Quantity Exception: None

Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Non Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015

Trade Name: Alconox	
Comments: None	Comments: None
14.4 Packing group: ADR, ADN, DOT, IMDG, IATA	None
14.5 Environmental hazards :	None
14.6 Special precautions for user: Danger code (Kemler): EMS number: Segregation groups:	None None None None
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
14.8 Transport/Additional information: Transport category: Tunnel restriction code: UN "Model Regulation":	 None None None

15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**
North American**SARA****Section 313 (specific toxic chemical listings):** None of the ingredients are listed.**Section 302 (extremely hazardous substances):** None of the ingredients are listed.**CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable****Spill Quantity:** None of the ingredients are listed.**TSCA (Toxic Substances Control Act):****Inventory:** All ingredients are listed.**Rules and Orders:** Not applicable.**Proposition 65 (California):****Chemicals known to cause cancer:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.**Canadian****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

EU**REACH Article 57 (SVHC):** None of the ingredients are listed.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**Germany MAK:** Not classified.**Asia Pacific****Australia****Australian Inventory of Chemical Substances (AICS):** All ingredients are listed.**China****Inventory of Existing Chemical Substances in China (IECSC):** All ingredients are listed.**Japan****Inventory of Existing and New Chemical Substances (ENCS):** All ingredients are listed.**Korea****Existing Chemicals List (ECL):** All ingredients are listed.**New Zealand****New Zealand Inventory of Chemicals (NZOIC):** All ingredients are listed.**Philippines****Philippine Inventory of Chemicals and Chemical Substances (PICCS):** All ingredients are listed.**Taiwan****Taiwan Chemical Substance Inventory (TSCI):** All ingredients are listed.**16 Other information****Abbreviations and Acronyms:** None**Summary of Phrases****Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NFPA: 1-0-0

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015

Revision : 12.10.2015

Trade Name: Alconox

HMIS: 1-0-0

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: CS7000-A, CS7000-B, CS7000-C, CS7000-D, CS7000-P, CS7000-Q, CS7000-G, CS7000-T

Product Identity: Conductivity Std., 7000 umho/cm

Chemical Family: Not Applicable

Synonyms: Not Applicable

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 01/08/07

Revision Date: 06/05/08, 05/12/10, 02/19/12

Section 2 – Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash areas of contact with water.

Appearance: Clear, colorless liquid

Odor: Odorless

Target Organs: Eyes, skin

Potential Health Effects/ Routes of Exposure:

Eyes: May cause slight irritation.

Skin: May cause slight irritation.

Ingestion: Large doses may cause upset stomach.

Inhalation: Not likely to be a hazard.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)

Aggravated Medical Conditions No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Potassium Chloride, CAS# 7447-40-7, < 0.5% w/v

Water, purified, CAS# 7732-18-5, >99% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** No information available.

Explosion Limits Upper No data available **Lower** No data available

Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical: No information available
NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Environmental Precautions Not relevant considering the small amounts used.
Methods for Containment and Clean Up Absorb with suitable material. Always obey local regulations. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.
Storage: Protect from freezing and physical damage.

Section 8 – Exposure Controls, Personal Protection

Potassium Chloride, CAS# 7447-40-7, ACGIH TLV: NA, OSHA PEL: NA
Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.
Personal Protection Equipment: **Skin Protection:** Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Clear, colorless liquid	
Odor: Odorless	% Volatility: No Information Available
Boiling Point: Approx 100.1C	Specific Gravity: 1-1.01
Melting Point: Approx (-6)-0 C	Vapor Pressure: No Information Available
Vapor Density: No Information Available	Flash Point: Not Applicable
Evaporation Rate: No Information Available	Coefficient of water/oil distribution: Not Available
pH: Not Available	Odor Threshold: Not Available
Flammability: No Information Available	Decomposition Temperature: No Information Available
Solubility: Infinite	Partition Coefficient n-octanol/water: No data
available	
Relative Density: No Information Available	Molecular Weight: Not available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatible Materials Strong Oxidizing agents, Lithium, Bromine, Trifluoride.
Conditions to Avoid: No Information Available.
Hazardous Decomposition Products: Oxides of Sodium and fumes of Chloride.
Hazardous Polymerization: Does not occur
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: 3020 mg/kg LC50 inhalation-rat: Not Available
Irritation: No Information Available
Toxicologically Synergistic: No Information Available
Chronic Exposure

Carcinogenicity No Information Available
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity No information available.
Other Adverse Effects No Information Available.
Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Not Available.
Persistence and Degradability: No Information Available **Mobility:** No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Dilute with water.
All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.
Canada DSL: These chemicals are listed on the Canada DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not Applicable
WHMIS: Not Applicable.
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.

SAFETY DATA SHEET

1. Identification

Product identifier: HYDROCHLORIC ACID

Other means of identification

Synonyms: Muriatic Acid, Hydrogen Chloride, Aqueous

Product No.: 9385, 9538, 9165, V226, V187, V078, V001, 6900, 2624, 2515, H999, H987, H616, 5861, 2062, 5814, 2626, 2612, 5800, 9625, 5587, 9551, 9544, 9539, 9535, 9530, 9529, 5367, H613, 37825, 25496, 20620, 9553

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Avantor Performance Materials, Inc.
Address: 3477 Corporate Parkway, Suite 200
Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax: 610-573-2610
Contact Person: Environmental Health & Safety
E-mail: info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metals Category 1

Health Hazards

Acute toxicity (Oral) Category 4

Skin Corrosion/Irritation Category 1

Serious Eye Damage/Eye Irritation Category 1

Specific Target Organ Toxicity - Category 3

Single Exposure (Inhalation - vapor)

Label Elements

Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation.
Precautionary Statements	
Prevention:	Keep only in original container. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product.
Response:	Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
HYDROCHLORIC ACID		7647-01-0	20 - 40%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion:	Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation:	Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen.

Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms:	Causes severe skin and eye burns. Harmful if swallowed.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards:	No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media:	None known.

Specific hazards arising from the chemical:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. Keep unauthorized personnel away. Evacuate area. Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up:	Neutralize with lime or soda ash. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures:	Inform authorities if large amounts are involved.

Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Do not eat, drink or smoke when using the product. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use caution when adding this material to water.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a well-ventilated place. Unsuitable containers: metals.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
HYDROCHLORIC ACID	Ceiling	2 ppm	US. ACGIH Threshold Limit Values (2011)
	Ceil_Time	5 ppm 7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	5 ppm 7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	5 ppm 7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	2 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA PEL	0.3 ppm 0.45 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)

Appropriate Engineering Controls	No data available.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection	
Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and gloves.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Do not get this material in contact with skin.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Pungent
Odor threshold:	No data available.
pH:	0.1 (1 N aqueous solution)
Melting point/freezing point:	-35 °C
Initial boiling point and boiling range:	48 °C
Flash Point:	not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	14.1 kPa
Vapor density:	No data available.
Relative density:	1.18 (20 °C)
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	Reacts violently with strong alkaline substances.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Avoid contact with strong reducing agents. Strong oxidizing agents. Contact with alkalis.
Incompatible Materials:	Amines. Alkalies. Metals. Reducing agents. Oxidizing agents.
Hazardous Decomposition Products:	Chlorine. hydrogen chloride By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	Harmful if swallowed.
Inhalation:	Causes severe burns.
Skin Contact:	Causes severe skin burns.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix (Rat): 581 mg/kg

Dermal

Product: No data available.

Specified substance(s):

HYDROCHLORIC ACID LD 50 (Mouse): 1,449 mg/kg

Inhalation

Product: No data available.

Specified substance(s):

HYDROCHLORIC ACID LC 50 (Mouse, 1 h): 1108 ppm
LC 50 (Rat, 1 h): 3124 ppm

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Causes severe skin burns.

Serious Eye Damage/Eye Irritation

Product: Causes serious eye damage.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Product: Respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard
Product: Not classified

Other effects: None known.

12. Ecological information
Ecotoxicity:
Acute hazards to the aquatic environment:
Fish
Product: No data available.

Specified substance(s):

HYDROCHLORIC ACID LC 50 (Western mosquitofish (*Gambusia affinis*), 96 h): 282 mg/l Mortality

Aquatic Invertebrates
Product: No data available.

Specified substance(s):

HYDROCHLORIC ACID LC 50 (Green or European shore crab (*Carcinus maenas*), 48 h): 240 mg/l Mortality
LC 50 (Common shrimp, sand shrimp (*Crangon crangon*), 48 h): 260 mg/l Mortality

Chronic hazards to the aquatic environment:
Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability
Biodegradation
Product: Expected to be readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

13. Disposal considerations

Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1789
UN Proper Shipping Name:	Hydrochloric acid
Transport Hazard Class(es):	8
Label(s):	8
Packing Group:	II
Marine Pollutant:	Not a Marine Pollutant
Special precautions for user:	—

IMDG

UN Number:	UN 1789
UN Proper Shipping Name:	HYDROCHLORIC ACID
Transport Hazard Class(es):	8
Class(es):	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Marine Pollutant:	Not a Marine Pollutant
Special precautions for user:	—

IATA

UN Number:	UN 1789
Proper Shipping Name:	Hydrochloric acid
Transport Hazard Class(es):	8
Class(es):	8
Label(s):	8
Marine Pollutant:	Not a Marine Pollutant
Packing Group:	II
Special precautions for user:	—

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
HYDROCHLORIC ACID	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate)

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
HYDROCHLORIC ACID	5000 lbs.	500 lbs.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
HYDROCHLORIC ACID	5000 lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
HYDROCHLORIC ACID	500lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
HYDROCHLORIC ACID	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

<u>Chemical Identity</u>	<u>Reportable quantity</u>
HYDROCHLORIC ACID	Reportable quantity: 5000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
HYDROCHLORIC ACID	15000 lbs
HYDROCHLORIC ACID	5000 lbs

US State Regulations
US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u>
HYDROCHLORIC ACID

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u>
HYDROCHLORIC ACID

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u>
HYDROCHLORIC ACID

US. Rhode Island RTK

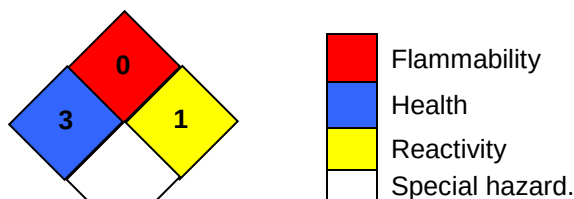
<u>Chemical Identity</u>
HYDROCHLORIC ACID

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Switzerland Consolidated Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	12-06-2016
Revision Date:	No data available.
Version #:	4.2
Further Information:	No data available.

Disclaimer:

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SAFETY DATA SHEET

Isobutylene

Airgas
an Air Liquide company

Section 1. Identification

GHS product identifier	: Isobutylene
Chemical name	: 2-methylpropene
Other means of identification	: 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene
Product type	: Gas.
Product use	: Synthetic/Analytical chemistry.
Synonym	: 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene
SDS #	: 001031
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Extremely flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General

: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage

: Protect from sunlight. Store in a well-ventilated place.

Disposal

: Not applicable.

Hazards not otherwise classified

: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: 2-methylpropene
Other means of identification	: 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene
Product code	: 001031

CAS number/other identifiers

CAS number : 115-11-7

Ingredient name	%	CAS number
Isobutylene	100	115-11-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Frostbite	: Try to warm up the frozen tissues and seek medical attention.
Ingestion	: As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
- Large spill** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isobutylene	ACGIH TLV (United States, 3/2017). TWA: 250 ppm 8 hours.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Gas. [Compressed gas.]
- Color** : Colorless.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : -140.7°C (-221.3°F)
- Boiling point** : -6.9°C (19.6°F)
- Critical temperature** : 144.75°C (292.6°F)
- Flash point** : Closed cup: -76.1°C (-105°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.
- Lower and upper explosive (flammable) limits** : Lower: 1.8%
Upper: 9.6%
- Vapor pressure** : 24.3 (psig)
- Vapor density** : 1.94 (Air = 1)
- Specific Volume (ft³/lb)** : 6.6845
- Gas Density (lb/ft³)** : 0.1496 (25°C / 77 to °F)
- Relative density** : Not applicable.
- Solubility** : Not available.
- Solubility in water** : 0.26 g/l
- Partition coefficient: n-octanol/water** : 2.34
- Auto-ignition temperature** : 465°C (869°F)
- Decomposition temperature** : Not available.
- Viscosity** : Not applicable.
- Flow time (ISO 2431)** : Not available.
- Molecular weight** : 56.12 g/mole
- Aerosol product**
- Heat of combustion** : -45029034 J/kg

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Oxidizers
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutylene	LC50 Inhalation Vapor	Rat	550000 mg/m ³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Section 11. Toxicological information

- Inhalation** : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Long term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Isobutylene	2.34	-	low

Mobility in soil

- Soil/water partition coefficient (K_{oc})** : Not available.

Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1055	UN1055	UN1055	UN1055	UN1055
UN proper shipping name	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

Additional information

DOT Classification

: **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 150 kg.
Special provisions 19, T50

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 0.125
ERAP Index 3000
Passenger Carrying Ship Index Forbidden
Passenger Carrying Road or Rail Index Forbidden
Special provisions 29

IATA

: **Quantity limitation** Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 150 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act (CAA) 112 regulated flammable substances: Isobutylene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : **Japan inventory (ENCS)**: This material is listed or exempted.
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Section 15. Regulatory information

Taiwan	: This material is listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: This material is listed or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/ 1
Flammability	4
Physical hazards	3

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1	Expert judgment
GASES UNDER PRESSURE - Liquefied gas	Expert judgment

History

Date of printing : 5/10/2018

Date of issue/Date of revision : 5/10/2018

Date of previous issue : 7/11/2016

Version : 0.02

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References

: Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Isopropyl Alcohol

Airgas
an Air Liquide company

Section 1. Identification

GHS product identifier	: Isopropyl Alcohol
Chemical name	: Isopropyl alcohol
Other means of identification	: isopropanol; 2-Propanol
Product type	: Liquid.
Product use	: Synthetic/Analytical chemistry.
Synonym	: isopropanol; 2-Propanol
SDS #	: 001105
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : May form explosive mixtures with air.
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : Isopropyl alcohol
Other means of identification : isopropanol; 2-Propanol
Product code : 001105

CAS number/other identifiers

CAS number : 67-63-0

Ingredient name	%	CAS number
Isopropyl alcohol	100	67-63-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.

Section 4. First aid measures

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation : Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Store locked up. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isopropyl alcohol	ACGIH TLV (United States, 3/2017). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes.

Section 8. Exposure controls/personal protection

NIOSH REL (United States, 10/2016).

TWA: 400 ppm 10 hours.

TWA: 980 mg/m³ 10 hours.

STEL: 500 ppm 15 minutes.

STEL: 1225 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 400 ppm 8 hours.

TWA: 980 mg/m³ 8 hours.

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

- : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

- : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state

- : Liquid. [COLORLESS LIQUID WITH THE ODOR OF RUBBING ALCOHOL]

Color

- : Colorless.

Odor

- : Alcohol-like.

Odor threshold

- : Not available.

pH

- : Not available.

Section 9. Physical and chemical properties

Melting point	: -90°C (-130°F)
Boiling point	: 83°C (181.4°F)
Critical temperature	: Not available.
Flash point	: Closed cup: 11.7°C (53.1°F)
Evaporation rate	: 1.7 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 2% Upper: 12%
Vapor pressure	: 4.4 kPa (33 mm Hg) [room temperature]
Vapor density	: 2.1 (Air = 1)
Specific Volume (ft³/lb)	: 1.2739
Gas Density (lb/ft³)	: Not available
Relative density	: 0.79
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: 0.05
Auto-ignition temperature	: 456°C (852.8°F)
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.
Molecular weight	: 60.11 g/mole

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LC50 Inhalation Gas.	Rat	45248 ppm	1 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Isopropyl alcohol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Isopropyl alcohol	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness
- Inhalation** : Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Isopropyl alcohol	0.05	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1219	UN1219	UN1219	UN1219	UN1219
UN proper shipping name	ISOPROPANOL OR ISOPROPYL ALCOHOL	ISOPROPANOL; OR ISOPROPYL ALCOHOL	ISOPROPANOL OR ISOPROPYL ALCOHOL	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

Additional information

- DOT Classification** : **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.
Special provisions IB2, T4, TP1
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
Explosive Limit and Limited Quantity Index 1
Passenger Carrying Road or Rail Index 5
- IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 5 L. Cargo Aircraft Only: 60 L.
 Limited Quantities - Passenger Aircraft: 1 L.

- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Isopropyl alcohol	67-63-0	100
Supplier notification	Isopropyl alcohol	67-63-0	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Section 15. Regulatory information

Europe	: This material is listed or exempted.
Japan	: Japan inventory (ENCS) : This material is listed or exempted. Japan inventory (ISHL) : This material is listed or exempted.
Malaysia	: This material is listed or exempted.
New Zealand	: This material is listed or exempted.
Philippines	: This material is listed or exempted.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: Not determined.
Turkey	: This material is listed or exempted.
United States	: This material is listed or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	1
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Expert judgment Expert judgment Expert judgment

History

Date of printing	: 8/6/2018
Date of issue/Date of revision	: 8/6/2018

Section 16. Other information

Date of previous issue : 10/19/2017

Version : 1.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Buffer Solution pH 4.00

SECTION 1: Identification

Product identifier

Product name: Buffer Solution pH 4.00

Product code: 40465

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

AquaPhoenix Scientific

860 Gitts Run Road

Hanover

PA 17331

(717) 632-1291

Supplier:

United States

USABlueBook

3781 Bur Wood Dr.

Waukegan

IL 60085

(847) 689-3000

Emergency telephone number:

United States

Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 110-44-1	Sorbic Acid	0.01
CAS number: 877-24-7	Potassium hydrogen phthalate	1.02
CAS number: 7732-18-5	Water	98.97
CAS number: 6625-46-3	Pontacyl Carmine 2B	<0.01

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Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

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Heating causes a rise in pressure, risk of bursting and combustion
Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid breathing mist or vapor.
Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.
Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

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Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear colorless liquid
Odor	Not available
Odor threshold	Not available
pH	4
Melting point/freezing point	Not available
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	Not available
Relative density	Not available
Solubilities	Infinite solubility in water.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

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Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sorbic Acid	Causes skin irritation.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sorbic Acid	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

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Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

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International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

877-24-7	Potassium hydrogen phthalate	Listed
7732-18-5	Water	Listed
6625-46-3	Pontacyl Carmine 2B	Listed
110-44-1	Sorbic Acid	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

110-44-1	Sorbic Acid	Not Listed

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6625-46-3	Pontacyl Carmine 2B	Not Listed
7732-18-5	Water	Not Listed
877-24-7	Potassium hydrogen phthalate	Not Listed

New Jersey Right to Know:

110-44-1	Sorbic Acid	Not Listed
6625-46-3	Pontacyl Carmine 2B	Not Listed
7732-18-5	Water	Not Listed
877-24-7	Potassium hydrogen phthalate	Not Listed

New York Right to Know:

110-44-1	Sorbic Acid	Not Listed
6625-46-3	Pontacyl Carmine 2B	Not Listed
7732-18-5	Water	Not Listed
877-24-7	Potassium hydrogen phthalate	Not Listed

Pennsylvania Right to Know:

110-44-1	Sorbic Acid	Not Listed
6625-46-3	Pontacyl Carmine 2B	Not Listed
7732-18-5	Water	Not Listed
877-24-7	Potassium hydrogen phthalate	Not Listed

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

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End of Safety Data Sheet

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Buffer Solution pH 7.00

SECTION 1: Identification

Product identifier

Product name: Buffer Solution pH 7.00

Product code: 40475

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

AquaPhoenix Scientific

860 Gitts Run Road

Hanover

PA 17331

(717) 632-1291

Supplier:

United States

USABlueBook

3781 Bur Wood Dr.

Waukegan

IL 60085

(847) 689-3000

Emergency telephone number:

United States

Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 6359-83-7	Mordant Yellow 8	<0.1
CAS number: 1310-73-2	Sodium hydroxide	0.12
CAS number: 7732-18-5	Water	99.16
CAS number: 52-51-7	Bioban Plus	0.05

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Buffer Solution pH 7.00

CAS number: 7778-77-0	Potassium Phosphate	0.68

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

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Buffer Solution pH 7.00

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion
Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid breathing mist or vapor.
Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.
Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium hydroxide	1310-73-2	ACGIH TLV C 2.0 mg/m ³
United States (OSHA)	Sodium hydroxide	1310-73-2	OSHA PEL TWA 2.0 mg/m ³
NIOSH	Sodium hydroxide	1310-73-2	NIOSH REL C 2.0 mg/m ³
	Sodium hydroxide	1310-73-2	NIOSH IDLH 10.0 mg/m ³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

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Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, yellow liquid
Odor	Odorless
Odor threshold	Not available
pH	7
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	Not available
Relative density	Approx. 1
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

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Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Bioban Plus	dermal	LD50 Rat: 2,000 mg/kg
	inhalation	Derived no effect level (DNEL), Acute: 12.3 mg/m ³
		Derived no effect level (DNEL), Long-term: 4.1 mg/m ³
		LC50 Rat: 588 mg/m ³ (4hr)
	oral	LD50 Rat: 254 - 354 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sodium hydroxide	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

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Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Bioban Plus	LC50 (3.2 months): 35.7 mg/L
	NOEC (4 days): 20 mg/L
	EC50 (48 h): 1.4 mg/L
	EC50 (72 h): 250 - 370 µg/L

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

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It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

7778-77-0	Potassium Phosphate	Listed
7732-18-5	Water	Listed
1310-73-2	Sodium hydroxide	Listed
52-51-7	Bioban Plus	Listed
6359-83-7	Mordant Yellow 8	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

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Buffer Solution pH 7.00

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA:

1310-73-2	Sodium hydroxide	Listed	1000

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

1310-73-2	Sodium hydroxide	Listed
52-51-7	Bioban Plus	Not Listed
6359-83-7	Mordant Yellow 8	Not Listed
7732-18-5	Water	Not Listed
7778-77-0	Potassium Phosphate	Not Listed

New Jersey Right to Know:

1310-73-2	Sodium hydroxide	Listed
52-51-7	Bioban Plus	Not Listed
6359-83-7	Mordant Yellow 8	Not Listed
7732-18-5	Water	Not Listed
7778-77-0	Potassium Phosphate	Not Listed

New York Right to Know:

1310-73-2	Sodium hydroxide	Listed
1310-73-2	Sodium hydroxide	Listed
52-51-7	Bioban Plus	Not Listed
6359-83-7	Mordant Yellow 8	Not Listed
7732-18-5	Water	Not Listed
7778-77-0	Potassium Phosphate	Not Listed

Pennsylvania Right to Know:

1310-73-2	Sodium hydroxide	Listed
52-51-7	Bioban Plus	Not Listed
6359-83-7	Mordant Yellow 8	Not Listed

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7732-18-5	Water	Not Listed
7778-77-0	Potassium Phosphate	Not Listed

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-0-0

HMIS: 1-0-0

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SECTION 1: Identification

Product identifier

Product name: Buffer Solution, pH 10.00

Product code: 40477

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

AquaPhoenix Scientific

860 Gitts Run Road

Hanover

PA 17331

(717) 632-1291

Supplier:

United States

USABlueBook

3781 Bur Wood Dr.

Waukegan

IL 60085

(847) 689-3000

Emergency telephone number:

United States

Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 144-55-8	Sodium hydrogencarbonate	<2
CAS number: 34722-90-2	Bromothymol Blue, Sodium Salt	<2
CAS number: 7732-18-5	Water	>90
CAS number: 497-19-8	Sodium Carbonate	<2

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Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

After swallowing:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

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Heating causes a rise in pressure, risk of bursting and combustion
Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid breathing mist or vapor.
Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.
Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

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Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, blue liquid
Odor	Odorless
Odor threshold	Not available
pH	10
Melting point/freezing point	Approx. 0°C
Initial boiling point/range	Approx. 100°C
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	Not available
Relative density	Approx. 1
Solubilities	Infinite solubility in water.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

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None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sodium Carbonate	Causes eye irritation

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

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Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Sodium Carbonate	LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h
	EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	

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Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

34722-90-2	Bromothymol Blue, Sodium Salt	Listed
7732-18-5	Water	Listed
144-55-8	Sodium hydrogencarbonate	Listed
497-19-8	Sodium Carbonate	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

144-55-8	Sodium hydrogencarbonate	Not Listed

CERCLA: Not determined.

RCRA: Not determined.

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Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

144-55-8	Sodium hydrogencarbonate	Not Listed
34722-90-2	Bromothymol Blue, Sodium Salt	Not Listed
497-19-8	Sodium Carbonate	Not Listed
7732-18-5	Water	Not Listed

New Jersey Right to Know:

144-55-8	Sodium hydrogencarbonate	Not Listed
34722-90-2	Bromothymol Blue, Sodium Salt	Not Listed
497-19-8	Sodium Carbonate	Not Listed
7732-18-5	Water	Not Listed

New York Right to Know:

144-55-8	Sodium hydrogencarbonate	Not Listed
34722-90-2	Bromothymol Blue, Sodium Salt	Not Listed
497-19-8	Sodium Carbonate	Not Listed
7732-18-5	Water	Not Listed

Pennsylvania Right to Know:

144-55-8	Sodium hydrogencarbonate	Not Listed
34722-90-2	Bromothymol Blue, Sodium Salt	Not Listed
497-19-8	Sodium Carbonate	Not Listed
7732-18-5	Water	Not Listed

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The

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information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Initial preparation date: 11.24.2016

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End of Safety Data Sheet

Safety Data Sheet



1. Identification

Product Name:	PRO LSPR 6PK WB MARK WHITE	Revision Date:	5/18/2017
Product Identifier:	2592838	Supersedes Date:	4/28/2016
Product Use/Class:	Marking Paint/Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		
Emergency Telephone:	24 Hour Hotline: 847-367-7700		

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word

Danger

Possible Hazards

27% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Flammable Liquid, category 1	H224	Extremely flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.

GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local, regional and national regulations.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.

GHS SDS PRECAUTIONARY STATEMENTS

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.

3. Composition/Information On Ingredients**HAZARDOUS SUBSTANCES**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt.% Range</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Propane	74-98-6	10-25	GHS04	H280
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
n-Butane	106-97-8	2.5-10	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	2.5-10	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Talc (Hydrous Magnesium Silicate)	14807-96-6	1.0-2.5	Not Available	Not Available
n-Butyl Acetate	123-86-4	1.0-2.5	GHS02-GHS07	H226-336
Ethylbenzene	100-41-4	1.0-2.5	GHS02-GHS07-GHS08	H225-304-332-351-373

4. First-aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.E.	15 mg/m3	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	10.0	100 ppm	150 ppm	100 ppm	N.E.
Talc (Hydrous Magnesium Silicate)	14807-96-6	5.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Relative Density:	0.882	pH:	NE
Freeze Point, °C:	ND	Viscosity:	N.D.
Solubility in Water:	No Information	Partition Coefficient, n-octanol/water:	N.D.
Decomposition Temp., °C:	N.D.	Explosive Limits, vol%:	0.9 - 12.6
Boiling Range, °C:	-37 - 537	Flash Point, °C:	-96
Flammability:	Supports Combustion	Auto-ignition Temp., °C:	N.D.
Evaporation Rate:	Faster than Ether	Vapor Pressure:	N.D.
Vapor Density:	No Information		

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid contact with strong acid and strong bases.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010) May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
74-98-6	Propane	N.I.	N.I.	658 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	2500 mg/kg	N.I.
106-97-8	n-Butane	N.I.	N.I.	658 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
14807-96-6	Talc (Hydrous Magnesium Silicate)	6000	N.I.	30
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.I. - No Information

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

14. Transport Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Xylenes (o-, m-, p- isomers)	1330-20-7
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>Chemical Name</u>	<u>CAS-No.</u>
Castor oil, sulfated, sodium salt	68187-76-8

16. Other Information**HMIS RATINGS**

Health:	No Informa tion	Flammability:	4	Physical Hazard:	No Informatio n	Personal Protection:	No Information

NFPA RATINGS

Health:	N.E.	Flammability:	4	Instability	0

VOLATILE ORGANIC COMPOUNDS, g/L: 531

SDS REVISION DATE: 5/18/2017

REASON FOR REVISION: Regulatory Formula Source Changed
Product Composition Changed
Substance and/or Product Properties Changed in Section(s):
02 - Hazard Identification
05 - Fire-fighting Measures
09 - Physical & Chemical Properties
16 - Other Information
Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

1. PRODUCT IDENTIFICATION: PRODUCT USE:

PROVECT-ORS
Soil and water treatment.

MANUFACTURER:

EMERGENCY PHONE:

PROVECTUS ENVIRONMENTAL
2871 W. Forest Rd., Suite 2
Freeport, IL
61032

USA: (815) 650-2230

TRANSPORTATION OF DANGEROUS GOOD CLASSIFICATION:
Oxidizing Solid, n.o.s. (Calcium Peroxide), Class 5.1, PG II, UN1479

WHMIS CLASSIFICATION:
Oxidizer

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Chemical Formula	CAS No.	Percentage
Calcium Peroxide	CaO ₂	1305-79-9	75%-85%
Inorganic Nutrients			15%-25%

3. PHYSICAL DATA

Appearance.....	White & brown granules
Physical state.....	Solid
Odor threshold.....	None
Bulk Density.....	500~650g/L
Solubility in Water.....	Insoluble
pH.....	~11
Decomposition Temperature.....	Self-accelerating decomposition with oxygen release starting from 275 degrees Celsius

4. HAZARDS IDENTIFICATION

Emergency overview

Oxidizing agent, contact with other material may cause fire. Under fire conditions this material may decompose and release oxygen that intensifies fire. This product contains <1% **non-respirable** crystalline silica. The NTP and OSHA have not classified **non-respirable** crystalline silica as carcinogenic. Long term exposure to hazardous levels of *respirable* silica dusts can cause lung disease (silicosis). ORS does not contain respirable crystalline silica.

Potential Health Effects:

- General.....Irritating to mucous membrane and eyes.

- Inhalation.....Irritating to respiratory tract. Long term inhalation of elevated levels may cause lung disease (silicosis).
- Eye contact.....May cause irritation to the eyes; Risks of serious or permanent eye lesions.
- Skin contact.....May cause skin irritation.
- Ingestion.....Irritation of the mouth and throat with nausea and vomiting.

5. FIRST AID MEASURES

- Inhalation.....Remove affected person to fresh air. Seek medical attention if effects persist.
- Eye contact.....Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- Skin contact.....Wash affected skin with soap and mild detergent and large amounts of water.
- Ingestion.....If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not induce vomiting.

6. FIRE FIGHTING MEASURE

Flash Point

- Not applicable

Flammability

- Not applicable

Ignition Temperature

- Not applicable

Danger of Explosion

- Non-explosive

Extinguishing Media

- Water

Fire Hazards

- Oxidizer. Storage vessels involved in a fire may vent gas or rupture due to internal pressure. Damp material may decompose exothermically and ignite combustibles. Oxygen release due to exothermic decomposition may support combustion. May ignite other combustible materials. Avoid contact with incompatible materials such as heavy metals, reducing agents, acids, bases,

combustible (wood, papers, cloths etc.) Thermal decomposition releases oxygen and heat. Pressure bursts may occur due to gas evolution. Pressurization if confined when heated or decomposing. Containers may burst violently.

Fire Fighting Measures

- Evacuate all non-essential personnel
- Wear protective clothing and self-contained breathing apparatus.
- Remain upwind of fire to avoid hazardous vapors and decomposition products.
- Use water spray to cool fire- exposed containers.

7. ACCIDENTAL RELEASE MEASURES**Spill Clean-up Procedure**

- Oxidizer. Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 9. Never exceed any occupational exposure limit.
- Shovel or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory. Avoid making dust.
- Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.
- Do not touch or walk through spilled material. Keep away from combustibles (wood, paper, oils, etc.). Do not return product to container because of risk of contamination.

8. HANDLING AND STORAGE**Storage**

- Oxidizer. Store in a cool, well-ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat.
- Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- Protect from moisture. Do not store near combustible materials. Keep containers well sealed. Ensure pressure relief and adequate ventilation.
- Store separately from organics and reducing materials. Avoid contamination that may lead to decomposition.

Handling

- Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- Prevent contact with combustible or organic materials.
- Label containers and keep them tightly closed when not in use.
- Wash thoroughly after handling.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls**

- General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure limits, monitoring should be performed regularly.

Respiratory Protection

- For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, wear a NIOSH approved respirator.

Eye/Face Protection

- Wear chemical safety goggles and a full face shield while handling this product.

Skin Protection

- Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Chemical-resistant (Recommended materials: PVC, neoprene or rubber)

Other Protective Equipment

- Eye-wash station
- Safety shower
- Impervious clothing
- Rubber boots

General Hygiene Considerations

- Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical removed from skin as soon as practical, especially before eating or smoking.

10. STABILITY AND REACTIVITY**Stability**

- Stable under normal conditions

Condition to Avoid

- Water
- Acids
- Bases
- Salts of heavy metals
- Reducing agents
- Organic materials
- Flammable substances

Hazardous Decomposition Products

- Oxygen which supports combustion

11. TOXICOLOGICAL INFORMATION

- LD50 Oral: Min.2000 mg/kg, rat
- LD50 Dermal: Min. 2000mg/kg, rat
- LD50 Inhalation: Min. 4580 mg/kg, rat

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

- Hazards for the environment is limited due to the product properties of no bioaccumulation, weak solubility and precipitation in aquatic environment.

Chemical Fate Information

- As indicated by chemical properties oxygen is released into the environment.

13. DISPOSAL CONSIDERATIONS

Waste Treatment

- Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

Package Treatment

- The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

14. TRANSPORT INFORMATION

- Proper Shipping Name: EHC-O
- Hazard Class: 5.1
- Labels: 5.1 (Oxidizer)
- Packing Group: II

15. REGULATORY INFORMATION

- SARA Section.....Yes
- SARA (313) Chemicals.....No
- EPA TSCA Inventory.....Appears
- Canadian WHMIS Classification C, D2B
- Canadian DSL.....Appears
- EINECS Inventory.....Appears

APPENDIX E

Generic Community Air Monitoring Plan



Appendix 1A

New York State Department of Health Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.
4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B

Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.
2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.
3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM₁₀) with the following minimum performance standards:
 - (a) Objects to be measured: Dust, mists or aerosols;
 - (b) Measurement Ranges: 0.001 to 400 mg/m³ (1 to 400,000 :ug/m³);
 - (c) Precision (2-sigma) at constant temperature: +/- 10 :g/m³ for one second averaging; and +/- 1.5 g/m³ for sixty second averaging;
 - (d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
 - (e) Resolution: 0.1% of reading or 1g/m³, whichever is larger;
 - (f) Particle Size Range of Maximum Response: 0.1-10;
 - (g) Total Number of Data Points in Memory: 10,000;
 - (h) Logged Data: Each data point with average concentration, time/date and data point number
 - (i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
 - (j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
 - (k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
 - (l) Operating Temperature: -10 to 50° C (14 to 122° F);
 - (m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.
4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.
5. The action level will be established at 150 ug/m³ (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m³, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m³ above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m³ continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM₁₀ at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

- (a) Applying water on haul roads;
- (b) Wetting equipment and excavation faces;
- (c) Spraying water on buckets during excavation and dumping;
- (d) Hauling materials in properly tarped or watertight containers;
- (e) Restricting vehicle speeds to 10 mph;
- (f) Covering excavated areas and material after excavation activity ceases; and
- (g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m³ action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

APPENDIX F

Well Construction Logs



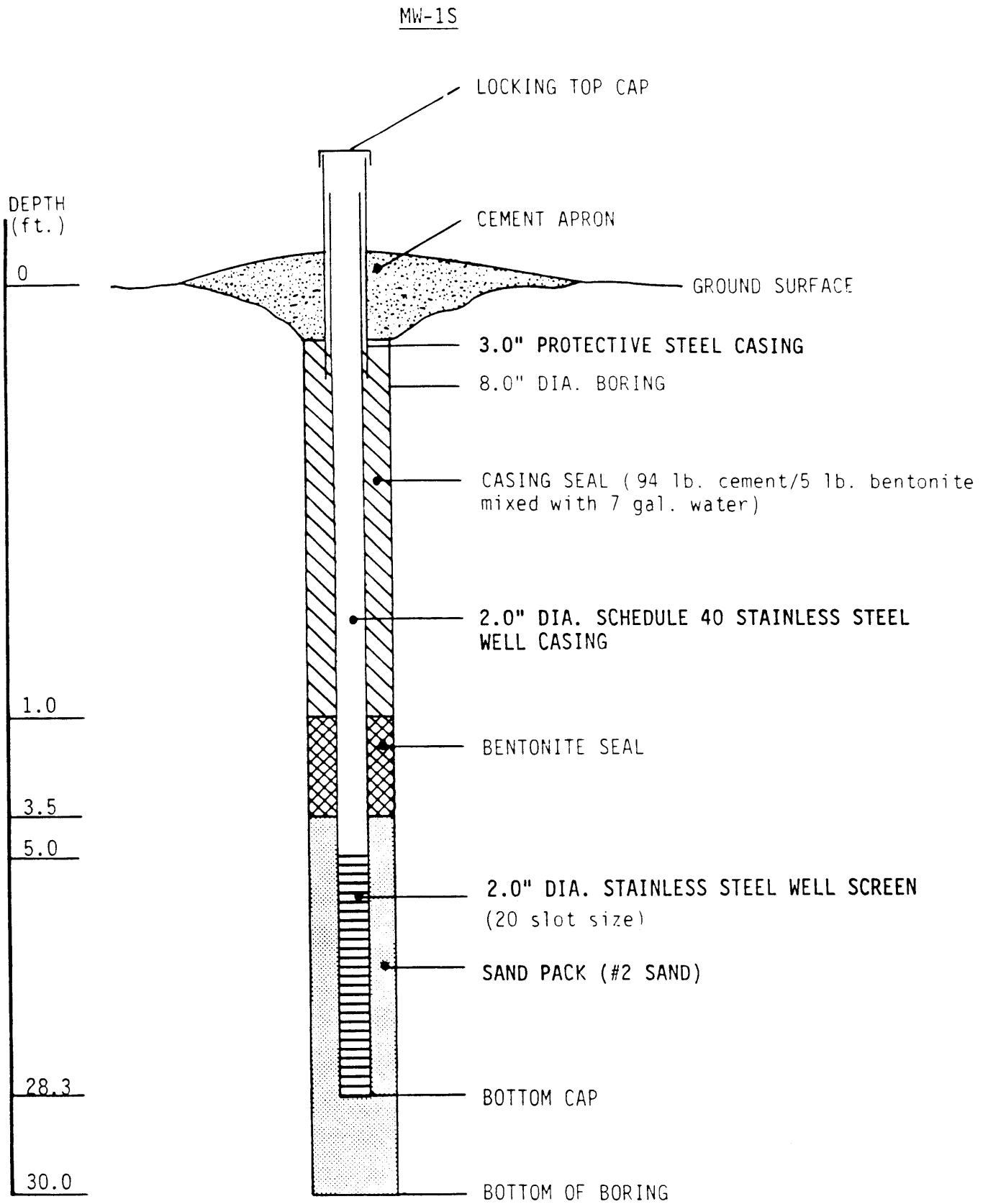
MW-1S
BORING LOG

PROJECT NO.: 3438-N61-21
PROJECT: NYSEG - DANSVILLE
CLIENT: New York State Electric and Gas
LOCATION: 50 Ossian Street, Dansville, New York
DRILLING CONTRACTOR: North Star Drilling
DRILLER: Harry Lyon
TRC INSPECTOR: Carl Mohrbacher

PAGE 1 OF 1
TOP OF CASING ELEVATION: 688.85
WELL DEPTH: 28.3'
CASING STICK UP: 1.56'
WATER LEVEL: 11.09'
DRILLING METHOD: Hollow-stem augers
COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/13/86
DATE COMPLETED: 08/13/86
TOP OF SCREEN: 5.0'
BOTTOM OF SCREEN: 28.3'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/OVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
0-2	2-4-4-5	100	0		Brown fine sand and silt. Moist.	
2-4	-	60	0		Brown fine to coarse sand and silt. Moist	
4-6	1-3-5-5	70	0		Brown silt, trace clay. Moist.	
6-8	4-5-6-19	65	0		Brown silt, little sand, trace clay. Moist.	Cobbles start at 6.5 feet.
8.5-10	11-9-12	25	4.0		Brown cobbles and gravel and coarse sand, trace silt. Wet.	Cobble at 8.0-8.5'. OVA switched from 10X to 1X scale.
10-12	5-4-3-2	55	2.3		Brown fine sand and silt.	This and all remaining samples are wet.
12-14	6-7-12-6	100	2.1		Same as above.	OVA at background levels for this and all remaining samples.
14-16	2-3-4-5	50	4.6		Same as above.	Driller feels stratigraphy change at 15.5'.
16-18	4-6-7-7	50	1.5		Gray silt, some clay, little fine sand.	
18-20	wor-3-3-2	75	2.0		Gray varved silt and clay.	wor = "weight of rods", meaning that the soils were not competent enough to hold the weight of the rods resting on them. wor replaces blow counts for the number of 6" intervals through which the rods sank.
20-22	4-6-6-7	35	3.6		Gray fine sand and silt, trace clay.	
22-24	4-5-5-5	70	3.4		Same as above.	
24-26	3-4-7-7	100	3.4		Gray silt, some fine sand, trace clay.	
26-28	4-6-6-9	-	-		Gray silt, little clay, trace fine sand.	
28-30	3-5-7-10	85	0.4		Gray silt, trace clay, fine sand.	Stopped boring and installed well. Sampling continues where shallow boring left off.
30-32	5-8-10-10	0	-			
32-34	12-18-18-16	75	0		Gray silt, trace clay. Stiff.	
34-36	6-9-10-12	100	0.2		Same as above.	
36-38	wor-7-7	0	-			



NOT TO SCALE

MW-1D
BORING LOG

PROJECT NO.: 3438-N61-21
PROJECT: NYSEG - DANVILLE
CLIENT: New York State Electric and Gas
LOCATION: 50 Ossian Street, Danville, New York
DRILLING CONTRACTOR: North Star Drilling
DRILLER: Harry Lyon
TRC INSPECTOR: Carl Mohrbacher

PAGE 1 OF 2
TOP OF CASING ELEVATION: 689.01
WELL DEPTH: 80.0'
CASING STICK UP: 1.94'
WATER LEVEL: 7.41'
DRILLING METHOD: Hollow-stem augers
COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/14/86
DATE COMPLETED: 08/15/86
TOP OF SCREEN: 62.5'
BOTTOM OF SCREEN: 80.0'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/OVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
38-40	wor-5-8-9	100	72		Gray silt, little clay. Stiff.	
40-42	wor-7-11	88	-		Same as above.	
42-44	6-8-8-10	100	0.2		Same as above.	
44-46	wor	70	10.0		Same as above.	
46-48	6-7-9-10	100	1.8		Gray silt, little clay, trace gravel. Stiff.	
48-50	3-4-6-9	100	200		Gray silt, some clay, occasional fine sand lense.	Occasional high readings probably due to methane.
50-52	4-7-8-10	100	0		Same as above.	
52-54	10-12-12-12	100	7.4		Same as above.	
54.5-56	wor-4-6-10	100	210		Gray silt, little clay.	
56-58	12-16-18-21	100	1.4		Gray silt, trace clay.	
58-60	5-6-9-10	90	0.1		Same as above.	
60-62	wor-7-8	60	3.0		Same as above.	
62-64	7-8-12-12	15	0.9		Gray silt, trace clay, trace fine sand.	
64-66	3-6-9-14	100	0.4		Gray silt, some fine sand.	
66-68	wor-13-13	100	140		Gray silt and fine sand.	
68-70	6-8-10-10	100	860		Gray fine sand, some silt, trace medium sand, trace gravel.	
70-72	4-6-5-7	100	420		Gray fine sand and silt, trace clay, trace gravel.	
72-74	5-6-6-12	100	5.6		Gray silt, little fine sand, trace clay.	
74-76	wor-4	100	-		Gray silt, little fine sand.	

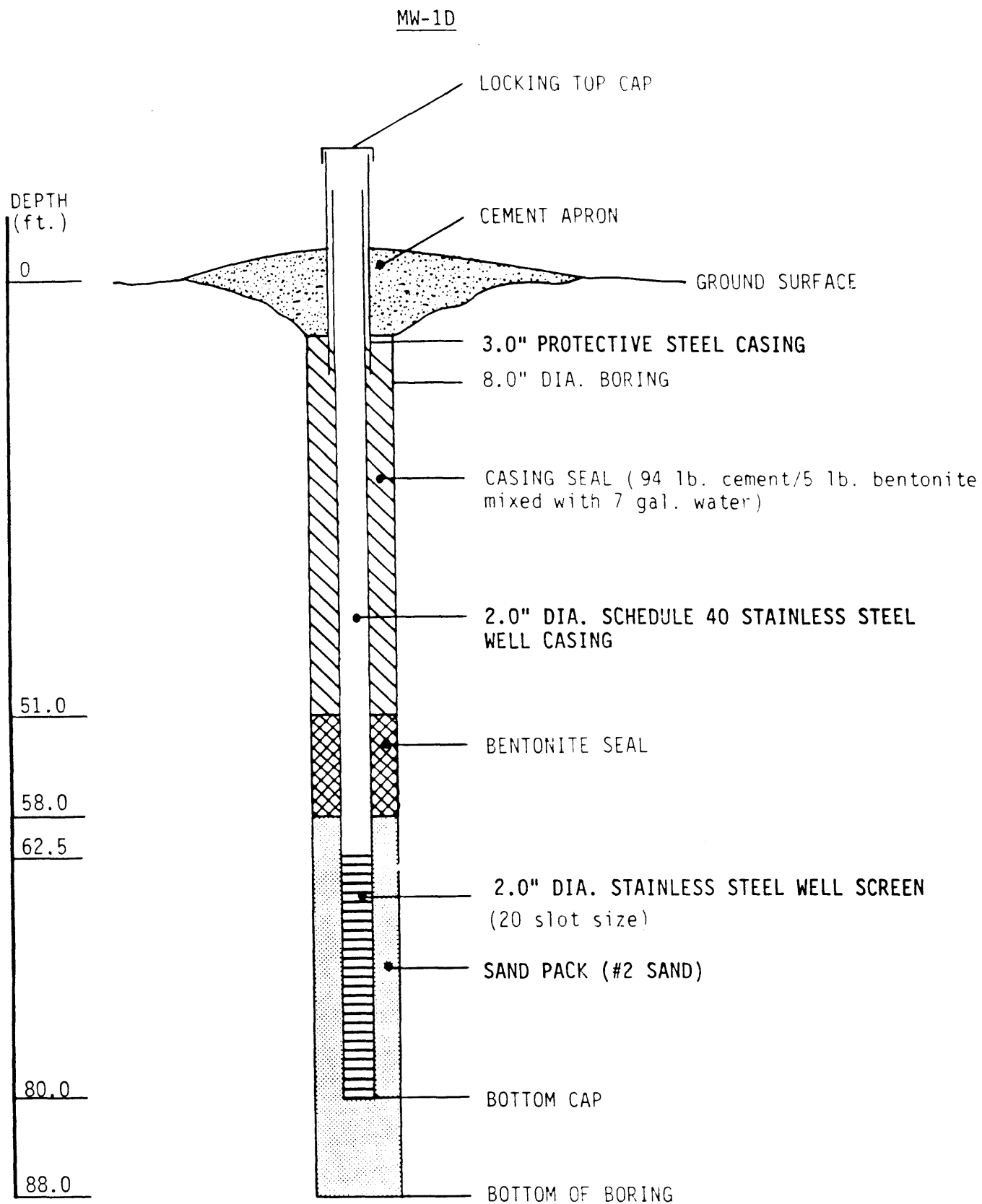
MW-1D
BORING LOG

PROJECT NO.: 3438-N61-21
PROJECT: NYSEG - DANSVILLE
CLIENT: New York State Electric and Gas
LOCATION: 50 Ossian Street, Dansville, New York
DRILLING CONTRACTOR: North Star Drilling
DRILLER: Harry Lyon
TRC INSPECTOR: Carl Mohrbacher

PAGE 2 OF 2
TOP OF CASING ELEVATION: 689.01
WELL DEPTH: 80.0'
CASING STICK UP: 1.94'
WATER LEVEL: 7.41'
DRILLING METHOD: Hollow-stem augers
COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/14/86
DATE COMPLETED: 08/15/86
TOP OF SCREEN: 62.5'
BOTTOM OF SCREEN: 80.0'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/OVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
76-78	wor-3-4-4	100	310		Same as above.	
78-80	wor-6-8-12	100	1.0		Same as above.	
80-82	2-3-6-7	100	1.6		Gray silt, little fine sand, trace clay. middle 1' is silt and fine sand.	
82-84	5-8-16-22	100	1.3		82-83 gray fine sand and silt, trace clay. 83-84 gray silt, some clay.	
84-86	4-5-7-4	100	2.5		Gray silt and clay. 86-86.3 medium sand layer.	
86-88	5-4-7-3	85	200		Gray fine and medium sand, little silt.	
88-90	4-2-4-8	75	<10		Four layers of gray silt, some fine sand, interbedded with fine sand layers.	
90-92	9-6-3-4	100	2.4		Gray fine sand, some silt, trace medium sand.	
92-94	wor-3-6-10	100	5.4		Gray fine sand, some silt, little clay. 94-94.4 silt layer.	
94-96					No sample collected.	
96-98	12-12-12-12	100	850		Gray fine sand, some silt, trace clay. Two layers of silt, little fine sand, 0.2' and 0.4 thick.	
98-100	wor	100	1.8		Gray fine sand and silt. Two layers of silt, little fine sand, 0.2' and 0.4' thick.	End of boring.



NOT TO SCALE

MW-2S

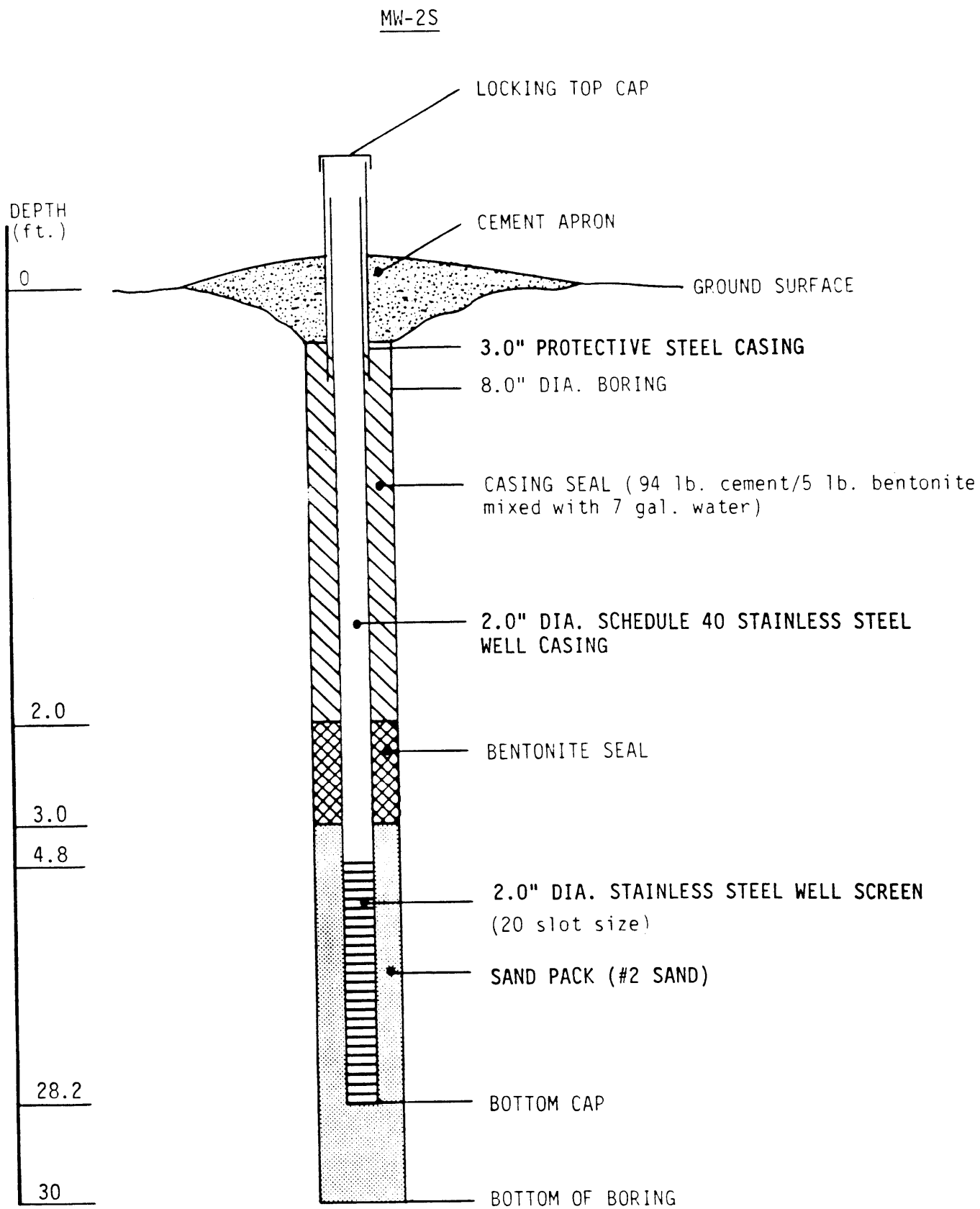
BORING LOG

PROJECT NO.: 3438-N61-21
 PROJECT: NYSEG - DANSVILLE
 CLIENT: New York State Electric and Gas
 LOCATION: 50 Ossian Street, Dansville, New York
 DRILLING CONTRACTOR: North Star Drilling
 DRILLER: Harry Lyon
 TRC INSPECTOR: Carl Mohrbacher

PAGE 1 OF 1
 TOP OF CASING ELEVATION: 691.84
 WELL DEPTH: 28.2'
 CASING STICK UP: 2.02'
 WATER LEVEL: 13.80'
 DRILLING METHOD: Hollow-stem augers
 COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/18/86
 DATE COMPLETED: 08/18/86
 TOP OF SCREEN: 4.8'
 BOTTOM OF SCREEN: 28.2'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/QVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
0-2	2-1-3-2	40	-		Top soil with 0.1' thick black ash layer in middle and 0.1' thick tan sand at bottom. Moist.	
2-4	2-1-1-1	60	0		Tan sand. Moist.	Auger encountered cobbles at 4'.
4-6	7-15-9-11	68	0		Tan gravel and sand. Moist.	
6-8	8-12-9-14	45	-		Same as above.	Recalibrated OVA. Background = 0.9 ppm.
8-10	8-24-20-15	63	1.4-5.4		Tan gravel and sand. Moist.	
10-12	10-25-14-12	45	30-48		Same as above.	
12-14	12-11-10-9	75	2.0		Upper half: same as above. Lower half: tan medium sand. Wet.	Strata change probably occurs at 13'.
14-16	5-10-9-7	100	-		Tan fine to medium sand.	Recalibrated OVA. All readings after this point were equal to background levels, unless otherwise noted.
16-18	5-7-6-9	100	-		16-17 tan fine sand and silt. 17-17.5 gray fine sand and silt. 17.5-18 gray silt, trace clay.	
18-20	wor-3-3	100	1.3		Gray varved fine sand vs. silt, trace clay.	OVA background = 0.8 ppm.
20-22	3-4-5-4	100	1.5		Same as above, with one 0.3' fine sand layer.	Smelled coal tar.
22-24	3-3-3-5	100	1.5		Same as above, grading to all silt, trace clay in the bottom 0.4'.	Smelled coal tar.
24-26	wor-4-7	75	1.6		Gray silt, little clay.	OVA background = 1.4 ppm.
26-28	4-6-7-7	100	2.0-5.0		Gray varved silt, trace clay vs. fine sand and silt.	
28-30	5-6-7-6	100	1.4		Gray silt, some clay.	OVA background = 1.2 ppm. Shallow well installed.



NOT TO SCALE

MW-2D
BORING LOG

PROJECT NO.: 3438-N61-21
PROJECT: NYSEG - DANSVILLE
CLIENT: New York State Electric and Gas
LOCATION: 50 Ossian Street, Dansville, New York
DRILLING CONTRACTOR: North Star Drilling
DRILLER: Harry Lyon
TRC INSPECTOR: Carl Mohrbacher

PAGE 1 OF 2
TOP OF CASING ELEVATION: 691.40
WELL DEPTH: 86.5'
CASING STICK UP: 1.59'
WATER LEVEL: 12.12'
DRILLING METHOD: Hollow-stem augers
COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/18/86
DATE COMPLETED: 08/19/86
TOP OF SCREEN: 70.5'
BOTTOM OF SCREEN: 86.5'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/OVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
30-32	3-5-6-7	25	BG		Gray silt, some clay.	BG = OVA reads background levels.
35-37	10-10-10-10	100	-		Gray silt, some fine sand.	Switch to standard sampling (every 5').
40-42	4-8-9-9	100	BG		Gray silt, some fine sand. Layer of silt and fine sand 41.5-42.	OVA reading from sandy layer = BG + 0.6 ppm.
45-47	3-4-6-6	75	0.6-1.4		Gray silt, some clay.	
50-52	3-6-9-13	85	-		Gray clay, some silt.	
55-57	2-3-3-6	100	1.0-2.0		55-55.8 gray silt. 55.8-57 gray fine sand layered with fine sand, some silt.	BG = 0.2. Return to continuous sampling.
58-60	wor-6-6	100	BG		Gray fine sand, some silt.	
60-62	4-9-9-9	100	BG		Gray fine sand, little silt.	
62-64	11-11-11	60	BG+0.2		Gray fine sand, layers of medium sand with little silt.	
64-66	10-13-13-13	85	BG		Gray fine sand, little silt, trace fine gravel.	
66-68	6-14-19-19	100	-		Gray fine sand, little silt, trace fine gravel. Layer medium sand 0.2' thick.	
68-70	11-13-15-17	100	BG		Gray medium sand, trace silt. Layer fine sand, little silt 0.5' thick.	
70-72	wor	0	-			
72-74	6-16-20-34	100	1.0		72-73.1 medium sand. 73.1-74 coarse sand and gravel, trace fine sand.	
74-76	8-16-34-40	100	7-19		Coarse sand and gravel.	
79-81	44-100-refusal	25	24		Medium sand.	

MW-2D
BORING LOG

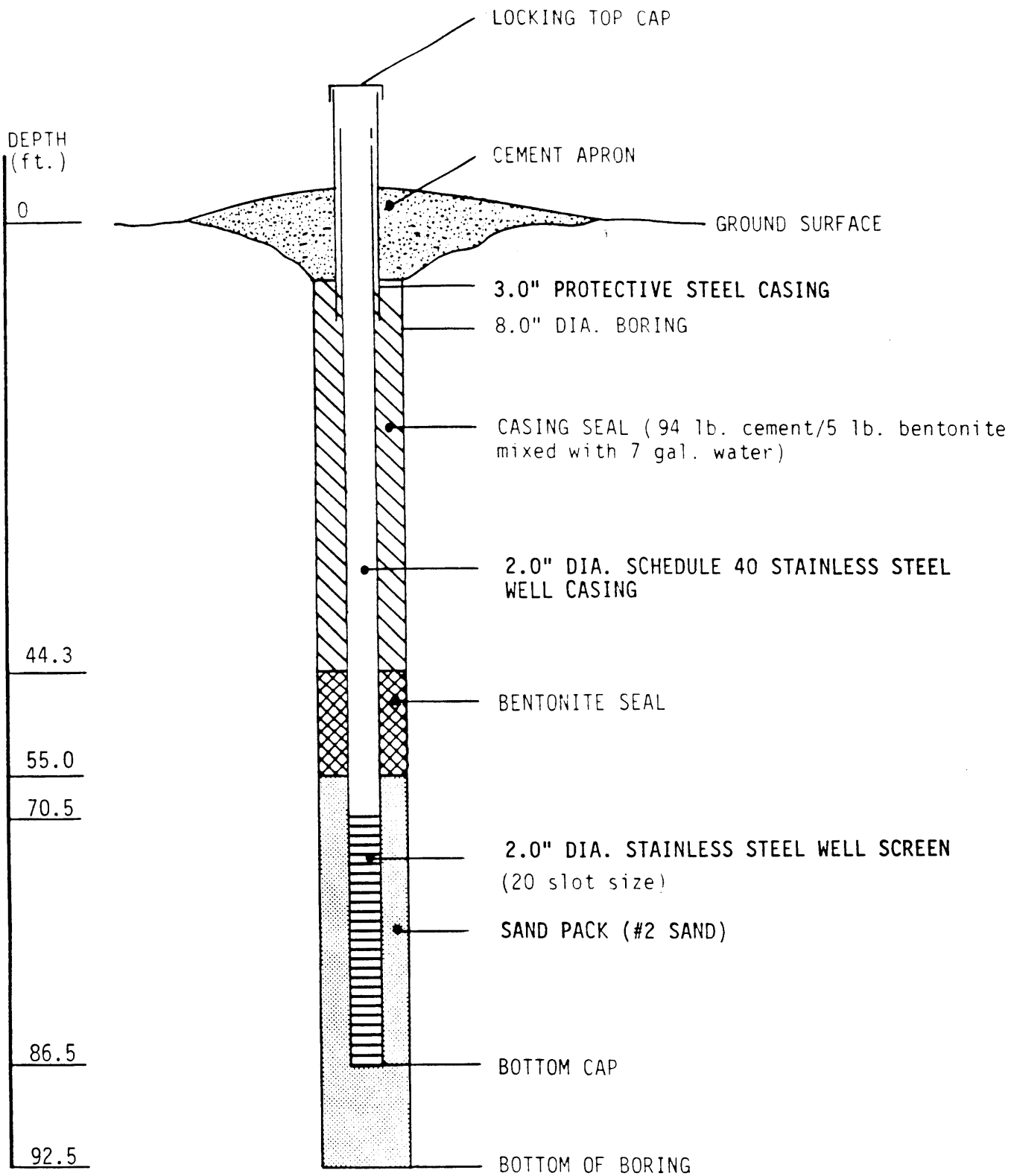
PROJECT NO.: 3438-N61-21
PROJECT: NYSEG - DANSVILLE
CLIENT: New York State Electric and Gas
LOCATION: 50 Ossian Street, Dansville, New York
DRILLING CONTRACTOR: North Star Drilling
DRILLER: Harry Lyon
TRC INSPECTOR: Carl Mohrbacher

PAGE 2 OF 2
TOP OF CASING ELEVATION: 691.40
WELL DEPTH: 86.5'
CASING STICK UP: 1.59'
WATER LEVEL: 12.12'
DRILLING METHOD: Hollow-stem augers
COMPLETION AND DEVELOPMENT: Air surging

DATE STARTED: 08/18/86
DATE COMPLETED: 08/19/86
TOP OF SCREEN: 70.5'
BOTTOM OF SCREEN: 86.5'

DEPTH INTERVAL	BLOW ON SPLIT SPOON	PERCENT RECOVERY	(ppm) HNU/OVA	SAMPLES ANALYZED	SAMPLE DESCRIPTION	REMARKS
85-86.5	35-27-22	100	BG		Medium sand, trace fine gravel. Lower half is coarse sand and gravel.	
90.5-92.5	9-9-11-8	85	-		Grading top to bottom: silt, some fine sand to silt, some clay.	Driller felt strata change at 86.5'. End of boring.

MW-2D



NOT TO SCALE

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 6/21/2004

DATE COMPLETED: 6/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP12/PZ03

GROUND ELEVATION: 684.40 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 684.01 ft. above MSL

DEPTH TO WATER: 7.41 ft. below TOC

X-COORDINATE: 519112.73

Y-COORDINATE: 935482.04

WEATHER: Sunny, hot

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
1.1-4.0		75	0.0		Ground Surface Asphalt and Concrete Augered through asphalt and concrete	0			Flush mount curb box
4-8		80	0.0		Fill Dry, medium brown silt with fine sand	1			
8-12		80	0.0		Fill Dry, brown silt with fine sand, gravel, and concrete	2			
12-14		0%	8.1		Sand Moist, brown silty sand with a little clay	3			
14-17.5		0%			Sand and Gravel Wet, brown sand and gravel	4			
			3.0	10.0-12.0		5			
					No Recovery	6			
					Rock in shoe	7			
					No Recovery	8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 6/21/2004

DATE COMPLETED: 6/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP12/PZ03

GROUND ELEVATION: 684.40 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 684.01 ft. above MSL

DEPTH TO WATER: 7.41 ft. below TOC

X-COORDINATE: 519112.73

Y-COORDINATE: 935482.04

WEATHER: Sunny, hot

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0	16.0-20.0	Clay Moist, gray clay with fine sand	16			
					End of Log	17			
						18			
						19			
						20			Well cap
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03033

LOCATION: Dansville, NY

DATE STARTED: 6/24/2004

DATE COMPLETED: 6/24/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP19/PZ10

GROUND ELEVATION: 678.45 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 678.15 ft. above MSL

DEPTH TO WATER: 9.42 ft. below TOC

X-COORDINATE: 518599.60

Y-COORDINATE: 935966.26

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19.0 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
1-3		75			Ground Surface Asphalt	0			Flush mount curb box
3-7		75			Fill Dry, light to medium brown silt	1			
7-11		40			Fill Dry, medium brown silt with a little gravel and sand Fill Dry to moist, medium brown silt with gravel, concrete and weathered quartz pieces	2			Bentonite seal
11-15		90		11-13.5	Sand and Gravel Wet, medium brown sand and gravel	3			
15-19		100			Silt Moist, medium brown silt with a little clay and sand Clay Moist, gray clay with fine sand	4			Sand pack
					End of Log	5			Water level (6/26/04)
						6			1-inch PVC w/10-foot 0.010-inch slotted screen
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			Well cap
						20			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 6/24/2004

DATE COMPLETED: 6/24/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP20/PZ11

GROUND ELEVATION: 677.07 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 676.63 ft. above MSL

DEPTH TO WATER: 11.38 ft. below TOC

X-COORDINATE: 935974.60

Y-COORDINATE: 518341.51

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 26.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
1-3		70	0.0		Ground Surface Asphalt	0			Flush mount curb box
3-7		70	0.0		Fill Dry, medium to dark brown, fine sand with gravel and debris	1			
7-11		90	0.0			2			
						3			
						4			Bentonite grout
						5			
						6			
						7			
						8			
						9			
					Rock and concrete	10			
11-15		100	0.0	11-13	Sand Moist, black, medium sand	11			Water level (6/26/04)
					Silt Moist to wet, medium brown silt with sand and gravel	12			Bentonite seal
					Silt Dry, brown silt and gravel	13			Sand pack
					Sand and Gravel Wet, brown, medium to coarse sand and gravel	14			
15-17		100	0.0		Sand Wet, brown, fine to medium sand	15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 6/24/2004

DATE COMPLETED: 6/24/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP20/PZ11

GROUND ELEVATION: 677.07 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 676.63 ft. above MSL

DEPTH TO WATER: 11.38 ft. below TOC

X-COORDINATE: 935974.60

Y-COORDINATE: 518341.51

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 26.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
17-19.9		100	0.0		Sand Wet, brown, fine to medium sand	16			
19.9-21.7		100	0.0		Sand Wet, brown, fine sand	17			
21.7-22.3		100	0.0			18			
22.3-25.0		100	0.0			19			
						20			
						21			
						22			
						23			
25.0-26.5		100	0.0		Clay Moist, gray clay with fine sand	24			
						25			
						26			
					End of Log	27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/20/2004

DATE COMPLETED: 9/20/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP23/PZ12

GROUND ELEVATION: 675.90 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 675.51 ft. above MSL

DEPTH TO WATER: 12.72 ft. below TOC

X-COORDINATE: 518073.85

Y-COORDINATE: 935982.24

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 26 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
1.5-3.5	100	0.0	0.0		Ground Surface	0			Flush mount curb box
					Asphalt and Road Fill Augered through asphalt, gravel, sand and cobbles	1			
					Gravel and Sand Dry, brown gravel, rock clasts and sand	2			Bentonite grout
3.5-7.5	50	0.0	0.0		Silt, Sand, and Gravel Dry, brown silt and sand with a little gravel	3			
						4			
						5			Bentonite seal
						6			
						7			
						8			
7.5-11.5	60	0.0	0.0		Sand and Gravel Dry, dark brown sand and gravel	9			
					Sand Dry, brown sand with angular clasts and quartz pieces	10			
					Sand and Gravel Dry, brown sand with gravel and angular clasts	11			
						12			
						13			Water level (9/29/04)
						14			Sand pack
11.5-15.4	10	0.0	0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/20/2004

DATE COMPLETED: 9/20/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP23/PZ12

GROUND ELEVATION: 675.90 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 675.51 ft. above MSL

DEPTH TO WATER: 12.72 ft. below TOC

X-COORDINATE: 518073.85

Y-COORDINATE: 935982.24

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 26 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
15.4-19.5		10	0.0		Sand and Gravel Dry to moist, brown sand with gravel and broken rock pieces	16			
			0.0			17			
			0.0			18			
			0.0			19			
19.5-22.0		0.0	0.0	19.0-19.5	Sand Wet, brown, fine sand grading to coarser sand and gravel No Recovery	20			1-inch PVC w/10-foot 0.010-inch slotted screen
						21			
22.0-26.0		50			Sand Wet, fine sand with a little gravel	22			
						23			
						24			
			0.0	24.0-26.0		25			
			0.0			26			Well cap
			0.0		End of Log	27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP24/PZ13

GROUND ELEVATION: 682.22 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.93 ft. above MSL

DEPTH TO WATER: 9.83 ft. below TOC

X-COORDINATE: 518501.74

Y-COORDINATE: 935384.30

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0		Ground Surface	0			Flush mount curb box
			0.0		Topsoil	0			
			0.0		Moist, dark brown grading to medium brown, fine sand with grass and other organic matter	1			Bentonite grout
			0.0			2			
			0.1			3			Bentonite seal
4-8		100	0.0		Gravel	4			
			0.0		Sand	4			
			0.0		Dry, dark brown, fine sand with a little gravel	5			
			0.0		Sand	5			
			0.0		Dry, light brown fine sand with gravel and angular reddish clasts	6			
			0.0			7			
8-12		50	0.0			8			Sand pack
			0.0			9			
			0.0			10			Water level (9/29/04)
			0.0		Sand and Gravel	10			
			0.0		Moist to wet, brown, fine to medium sand with gravel	11			
12-16		25	0.0	11.5-12.0		12			
			1.6			13			1-inch PVC w/10-foot 0.010-inch slotted screen
			1.0	15.0-16.0		14			
						15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP24/PZ13

GROUND ELEVATION: 682.22 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.93 ft. above MSL

DEPTH TO WATER: 9.83 ft. below TOC

X-COORDINATE: 518501.74

Y-COORDINATE: 935384.30

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		90	0.0		Gravel Wet, brown gravel, rock clasts and a little sand with sheens on water and a few small NAPL globules	16			
			0.0		Clay Moist, gray clay with fine sand	17			
			0.0			18			
			0.0	19.0-20.0		19			
			0.0			20			Well cap
					End of Log	21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP25/PZ14

GROUND ELEVATION: 678.50 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 678.20 ft. above MSL

DEPTH TO WATER: 12.30 ft. below TOC

X-COORDINATE: 518226.93

Y-COORDINATE: 935651.19

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		50			Ground Surface Topsoil Moist, dark brown topsoil with grass and other organic matter Fill Dry, medium brown, fine sand with a little coal-like material (CLM)	0			Flush mount curb box
			0.0			1			Bentonite grout
			0.0			2			
			0.0			3			
4-8		50	0.0		Sand and Gravel Moist, medium brown, fine sand with coarse sand and gravel	4			
			0.0			5			Bentonite seal
			0.0			6			
			0.0			7			
8-12		50	0.0		Sand and Gravel Dry, medium brown, fine to coarse sand, gravel, and angular clasts	8			
			0.0			9			Sand pack
			0.0			10			
			0.0			11			
12-16		75	0.0			12			Water level (9/29/04)
			0.0			13			
			0.0		Sand and Gravel Dry to wet, medium brown sand and gravel - wet at 14.5'	14			
			0.0	14.5-15.2		15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP25/PZ14

GROUND ELEVATION: 678.50 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 678.20 ft. above MSL

DEPTH TO WATER: 12.30 ft. below TOC

X-COORDINATE: 518226.93

Y-COORDINATE: 935651.19

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		75	0.0		Clay Wet, gray clay with fine sand	16			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0		Interbedded Sand and Clay Wet, interbedded, gray, fine sand and clay	17			
			0.0			18			
			0.0			19			
			0.0			20			Well cap
End of Log					20				
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP26/PZ15

GROUND ELEVATION: 676.81 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 676.51 ft. above MSL

DEPTH TO WATER: 12.17 ft. below TOC

X-COORDINATE: 518235.35

Y-COORDINATE: 935794.79

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0		Ground Surface Topsoil Moist, dark brown, silty topsoil with grass and other organic matter Silt, Sand, and Gravel Dry, light brown silt and fine sand with gravel and angular clasts	0			Flush mount curb box
4-8		85	0.0		Sand and Gravel Dry, light brown sand and gravel with angular clasts	1			
8-12		75	0.0			2			
			0.0			3			Bentonite seal
			0.0			4			
			0.0			5			
			0.0			6			
			0.0			7			
			0.0			8			Sand pack
			0.0			9			
			0.0			10			
			0.0	11.0-12.0	Sand and Gravel Moist to wet, light brown sand and gravel with angular clasts	11			
12-16		90	0.0		Sand and Gravel Wet, brown, fine to coarse sand and gravel	12			Water level (9/30/04)
					Sand Wet, brown, fine sand with some natural iron staining	13			
						14			
						15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/21/2004

DATE COMPLETED: 9/21/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP26/PZ15

GROUND ELEVATION: 676.81 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 676.51 ft. above MSL

DEPTH TO WATER: 12.17 ft. below TOC

X-COORDINATE: 518235.35

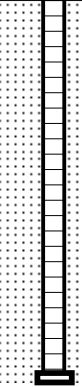
Y-COORDINATE: 935794.79

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19.5		100			Sand Wet, brown, fine sand with some natural iron staining	16			1-inch PVC w/10-foot 0.010-inch slotted screen
					Sand and Gravel Moist, brown sand and gravel	17			
					Clay Moist, gray clay with fine sand	18			
					Sand Moist, brown, fine sand with clay	19			
					End of Log	20			Well cap
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/22/2004

DATE COMPLETED: 9/22/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP27/PZ16

GROUND ELEVATION: 689.24 ft. below MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 688.89 ft. below MSL

DEPTH TO WATER: 10.95 ft. below TOC

X-COORDINATE: 518727.92

Y-COORDINATE: 934867.74

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		50			Ground Surface Silt Dry, dark brown silt Silt and Sand Moist, medium brown silt and fine sand Silt and Sand Dry to moist, medium brown silt and fine sand with some gravel	0 1 2 3			Flush mount curb box Bentonite seal
4-8		75				4 5 6 7			
8-9		100			Silt and Sand Dry to moist, medium brown silt and fine sand with some gravel - large rock in shoe and refusal at 9' - break up with drive point and continue sampling at 11' No Recovery	8 9 10			Sand pack
11-12		35			Silt and Sand Dry to wet, brown silt and fine sand with gravel and angular clasts	11 12			Water level (9/30/04)
12-16		50				13 14 15			1-inch PVC w/10-foot 0.010-inch slotted screen
				14.0-15.0	Sand and Gravel Wet, brown sand and gravel				

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/22/2004

DATE COMPLETED: 9/22/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP27/PZ16

GROUND ELEVATION: 689.24 ft. below MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 688.89 ft. below MSL

DEPTH TO WATER: 10.95 ft. below TOC

X-COORDINATE: 518727.92

Y-COORDINATE: 934867.74

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0		Clay Wet, brown clay and silt with fine sand	16			
			0.0		Clay Wet, gray clay with fine sand	17			
			0.0			18			
			0.0	19.0-20.0		19			
			0.0		Sand Wet, gray, fine sand	20			Well cap
					End of Log	21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/1/2005

DATE COMPLETED: 9/1/2005

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP54/PZ17

GROUND ELEVATION: 685.54 ft. above MSL

PROTECTIVE CASING ELEVATION: N/A

WELL ELEVATION: 684.26 ft. above MSL

DEPTH TO WATER: 7.27 ft. below TOC

X-COORDINATE: 519062.62

Y-COORDINATE: 935278.14

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 16 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		60	0.0		Ground Surface	0			Flush mount curb box
			0.0		Asphalt				
			0.0		Fill	1			
			0.0		Dry gravel				
			0.0		Sand	2			1" pvc riser
			0.0		Moist, brown, fine to medium sand				
4-8		60	0.0		Sand	3			
			0.0		Moist, brown, fine to medium sand with gravel and rock clasts				
			0.0			4			Bentonite seal
			0.0			5			Sand pack
			0.0			6			
			0.0			7			Water level (9/2/05)
8-12		50	0.0		Gravel	8			
			0.0		Wet, brown gravel and rock clasts with some coarse sand				
			0.0	10.0-11.0		9			
			0.0	11.0-12.0		10			0.010-inch slotted screen
			0.0			11			
12-16		100	0.0		Sand	12			
			0.0		Moist, brown, fine sand with a little gravel, and some iron staining at bottom of unit				
			0.0		Interbedded Clay and Sand	13			
			0.0		Wet, gray clay with fine sand interbedded with fine sand and clay				
			0.0	15.0-16.0		14			
			0.0			15			
			0.0			16			Well cap
					End of Log	17			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/22/2004

DATE COMPLETED: 9/22/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP29/PZ18

GROUND ELEVATION: 687.04 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.71 ft. above MSL

DEPTH TO WATER: 9.67 ft. below TOC

X-COORDINATE: 518739.23

Y-COORDINATE: 935018.00

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75			Ground Surface Silt Dry, dark brown silt with some organic matter	0			Flush mount curb box
			0.0			1			
			0.0			2			
			0.0		Silt and Sand Moist, medium brown silt and sand	3			
4-8		75	0.0		Sand Dry, medium brown, fine to medium sand with gravel	4			Bentonite seal
			0.0			5			
			0.0		Sand Dry to moist, medium brown, fine to coarse sand with gravel and angular clasts	6			
			0.0			7			
8-12		70	0.0			8			Sand pack
			0.0			9			
			0.0			10			Water level (9/30/04)
			0.0	11.2-11.7	Sand and Gravel Wet, brown, fine to medium sand and gravel	11			
12-16		100	0.0	12.0-12.5	Sand Wet, brown, fine sand	12			
			0.0		Clay Moist, orangy-brown clay and fine sand	13			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0		Sand Wet, orangy-brown, fine sand with a little clay and some natural iron staining	14			
			0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/22/2004

DATE COMPLETED: 9/22/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP29/PZ18

GROUND ELEVATION: 687.04 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.71 ft. above MSL

DEPTH TO WATER: 9.67 ft. below TOC

X-COORDINATE: 518739.23

Y-COORDINATE: 935018.00

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19		100	0.0		Sand Wet, gray fine sand - Stiffer and drier from 18.5-19'	16			
			0.0			17			
			0.0	18.0-19.0		18			
			0.0			19			Well cap
					End of Log	20			
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/1/2005

DATE COMPLETED: 9/1/2005

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP56/PZ19

GROUND ELEVATION: 685.47 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.15 ft. above MSL

DEPTH TO WATER: 11.0 ft. below TOC

X-COORDINATE: 518546.19

Y-COORDINATE: 935172.85

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		100	0.0		Ground Surface Topsoil Dry, light brown silt and fine sand with trace gravel and some root material	0			Flush mount curb box
			0.0			1			
			0.0		Fill Dry, dark brown silt and fine sand with trace gravel and glass pieces	2			1" PVC riser
			0.0			3			
4-8		75	0.0			4			Bentonite seal
			0.0			5			
			0.0		Sand and Gravel Moist, brown, tightly packed, fine to coarse sand and gravel with a few rock clasts	6			
			0.0			7			Sand pack
8-12		70	0.0			8			
			0.0			9			
			0.0			10			
			0.0			11			Water level (9/2/05)
12-16		95	0.0	12.5-13.5	Sand and Gravel Wet, brown, coarse sand and gravel	12			
			0.0			13			
			0.0		Sand Moist to wet, orangy-brown, fine sand with trace clay	14			0.010-inch slotted screen
			0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/1/2005

DATE COMPLETED: 9/1/2005

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP56/PZ19

GROUND ELEVATION: 685.47 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.15 ft. above MSL

DEPTH TO WATER: 11.0 ft. below TOC

X-COORDINATE: 518546.19

Y-COORDINATE: 935172.85

WEATHER: Warm and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0		Sand and Clay Moist to wet, gray, fine sand and clay	16			
			0.0		Interbedded Sand and Clay Wet, gray, interbedded fine sand and clay	17			
			0.0	18.5-19.5		18			Well cap
			0.0			19			
			0.0			20			
					End of Log	21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/23/2004

DATE COMPLETED: 9/23/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP32/PZ21

GROUND ELEVATION: 678.22 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 677.89 ft. above MSL

DEPTH TO WATER: 11.00 ft. below TOC

X-COORDINATE: 518387.40

Y-COORDINATE: 935798.07

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 21.2 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		80	0.0		Ground Surface	0			Flush mount curb box
			0.0		Silt Dry, medium to dark brown silt with organic material	1			Bentonite grout
			0.0		Silt and Sand Dry, medium brown silt and fine sand with some natural iron staining	2			
4-7.5		75	0.0			3			
			0.0			4			
			0.0			5			Bentonite seal
			0.0			6			
7.5-11.5		100	0.0		Sand Dry, medium to dark brown, fine to medium sand with gravel and angular clasts - Refusal at 7.7' - Moved SW a few feet and continue	7			
			0.0			8			
			0.0			9			Sand pack
			0.0			10			
11.5-15.5		40	0.0			11			Water level (10/1/04)
			0.7		Sand and gravel Wet, brown fine sand and gravel	12			
			3.1		Sand Wet, fine sand with small NAPL globules and sheen	13			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.5			14			
			0.0	14.5-15.0		15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/23/2004

DATE COMPLETED: 9/23/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP32/PZ21

GROUND ELEVATION: 678.22 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 677.89 ft. above MSL

DEPTH TO WATER: 11.00 ft. below TOC

X-COORDINATE: 518387.40

Y-COORDINATE: 935798.07

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 21.2 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
15.5-18.5		100							
			0.0		Sand Moist, brown fine sand	16			
			0.0	17.5-18.5	Sand Moist, brown fine to medium sand	17			
			0.0			18			
18.5-21.2		0%			No Recovery	19			
						20			
						21			Well cap
					End of Log	22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/24/2004

DATE COMPLETED: 9/24/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP33/PZ22

GROUND ELEVATION: 681.93 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.61 ft. above MSL

DEPTH TO WATER: 10.04 ft. below TOC

X-COORDINATE: 518372.26

Y-COORDINATE: 935375.45

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 21.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		60			Ground Surface Fill Dry, dark brown silt with organic material and small pieces of glass	0			Flush mount curb box
			0.1			1			
			0.0			2			
			0.4			3			Bentonite seal
4-8		50	0.7		Silt, Sand, and Gravel Dry to moist, medium brown silt and fine sand with gravel and rock clasts	4			
			0.0			5			
			0.0			6			
			0.0			7			
8-12		40	0.0		Silt, Sand, and Gravel Moist, medium brown silt and fine sand with gravel and rock clasts	8			Sand pack
			0.0			9			
			0.0			10			Water level (10/1/04)
			0.0		Sand and Gravel Wet, brown fine to coarse sand and gravel	11			
12-15.5		40	0.0	11.5-12.0		12			
			0.0			13			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0	14.0-15.0	Sand and Gravel Wet, brown, fine to coarse sand and gravel - more loosely packed than layer above	14			
			0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/24/2004

DATE COMPLETED: 9/24/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP33/PZ22

GROUND ELEVATION: 681.93 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.61 ft. above MSL

DEPTH TO WATER: 10.04 ft. below TOC

X-COORDINATE: 518372.26

Y-COORDINATE: 935375.45

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 21.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
15.5-18.7		100							
			0.0	16.0-18.0	Sand and Gravel Wet, brown, coarse sand and gravel	16			
			0.0		Sand Wet, brown, fine sand	17			
			0.0			18			
18.7-21.5		100							
			0.0		Sand Wet, brown, fine sand with a few interbedded clay lenses	19			
			0.0	20.5-21.5		20			
			0.0			21			
					Clay Moist, gray clay with fine sand	22			
					End of Log	23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/27/2004

DATE COMPLETED: 9/27/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP35/PZ24

GROUND ELEVATION: 681.48 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.16 ft. above MSL

DEPTH TO WATER: 10.39 ft. below TOC

X-COORDINATE: 518514.95

Y-COORDINATE: 935609.91

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		80	0.0		Ground Surface Fill Dry, dark brown silt with wood pieces, and black charcoal-like material	0			Flush mount curb box
			0.0			1			
			0.0		Fill Dry, medium brown silt	2			
			0.0		Fill Dry, dark brown silt with tile, charcoal, and rocks	3			Bentonite seal
4-8		50	0.0		Silt and Sand Moist, medium brown silt and fine sand	4			
			0.0			5			
			0.0			6			
			0.0		Silt Moist, medium brown silt with fine to coarse sand and gravel	7			
8-12		60	0.0			8			Sand pack
			0.0			9			
			0.0			10			Water level (10/1/04)
			0.0		Sand and Gravel Wet, reddish-brown sand and gravel	11			
12-16		90	0.0	12.6-13.2		12			
			0.0			13			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0		Clay Moist to wet, gray clay with fine sand	14			
			0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/27/2004

DATE COMPLETED: 9/27/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP35/PZ24

GROUND ELEVATION: 681.48 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 681.16 ft. above MSL

DEPTH TO WATER: 10.39 ft. below TOC

X-COORDINATE: 518514.95

Y-COORDINATE: 935609.91

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 19.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19.5		100	0.0		Clay Moist to wet, gray clay with fine sand	16			
			0.0			17			
			0.0	18.5-19.5		18			
			0.0			19			
					End of Log	20			Well cap
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP-NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/27/2004

DATE COMPLETED: 9/27/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP36/PZ25

GROUND ELEVATION: 681.07 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 680.87 ft. above MSL

DEPTH TO WATER: 9.08 ft. below TOC

X-COORDINATE: 518633.58

Y-COORDINATE: 935613.73

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 27 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0		Ground Surface	0			Flush mount curb box
			0.0		Silt Dry, dark brown silt with organic material	1			
			0.0		Sand and Silt Dry, medium brown, fine sand and silt with some organic material	2			
			0.0			3			
4-8		75	0.0		Sand Moist, light brown, fine to medium sand with gravel	4			Bentonite grout
			0.0		Sand Dry, light brown, fine to coarse sand with gravel and angular clasts	5			
			0.0			6			
			0.0			7			
8-12		50	0.0			8			
			0.0			9			Water level (10/1/04)
			0.0			10			
			0.0		Sand and Gravel Wet, brown sand and gravel	11			
12-16		90	0.0	11.5-12.0		12			
			0.0	12.4-12.8		13			Sand pack
			0.0		Sand Wet, orangy-brown, fine sand				
			0.0		Clay Wet, gray clay with fine sand	14			
			0.0		Sand Wet, brown, fine sand	15			

PROJECT: Dansville MGP-NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/27/2004

DATE COMPLETED: 9/27/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP36/PZ25

GROUND ELEVATION: 681.07 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 680.87 ft. above MSL

DEPTH TO WATER: 9.08 ft. below TOC

X-COORDINATE: 518633.58

Y-COORDINATE: 935613.73

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 27 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19.6		100	0.0		Sand Wet, brown, fine sand with a slight gas-like odor and staining	16			
			0.0			17			
			0.0			18			
			0.0		Sand Wet, gray, fine sand	19			
19.6-23		50	0.0		Clay Wet, gray clay with sand and gravel	20			1" PVC w/ 10-foot 0.010-inch slotted screen
			0.0			21			
			0.0			22			Well cap
23-27		50	0.0		Sand Wet, brown, fine sand	23			
			0.0			24			
			0.0			25			
			0.0	26.0-27.0	Sand Wet, brown, fine sand with a little clay	26			
			0.0		End of Log	27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/27/2004

DATE COMPLETED: 9/27/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP37/PZ26

GROUND ELEVATION: 677.94 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 677.63 ft. above MSL

DEPTH TO WATER: 7.72 ft. below TOC

X-COORDINATE: 518622.04

Y-COORDINATE: 935808.21

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 17.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		80	0.0		Ground Surface Silt and Sand Dry, dark brown silt and fine sand with trace gravel and organic material	0			Flush mount curb box
			0.0			1			
			0.0			2			
			0.0			3			Bentonite seal
4-8		70	0.0		Silt Dry to moist, medium brown silt, fine sand, gravel and angular clasts	4			
			0.0			5			
			0.0			6			Sand pack
			0.0			7			
8-12		100	0.0		Sand and Gravel Wet, brown, fine to coarse sand and gravel	8			Water level (10/1/04)
			0.0	9.0-10.0		9			
			0.0		Sand Wet, brown, fine sand	10			
			0.0			11			
12-14		100	0.0		Sand Wet, brown, fine sand with some natural iron staining	12			1" PVC w/10-foot 0.010-inch slotted screen
			0.0			13			
14-17.5		100	0.0		Clay Moist, gray clay with fine sand with slight black staining at 15.4, but no odor	14			
			0.0	15.0-16.0		15			
			0.0			16			
			0.0			17			
					End of Log	18			Well cap

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/28/2004

DATE COMPLETED: 9/28/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP38/PZ27

GROUND ELEVATION: 689.37 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 689.03 ft. above MSL

DEPTH TO WATER: 9.08 ft. below TOC

X-COORDINATE: 518930.51

Y-COORDINATE: 934805.57

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 16 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		90	0.0		Ground Surface	0			Flush mount curb box
			0.0		Silt Dry, dark brown silt with organic material	1			
			0.0		Silt and Sand Dry, light brown silt and fine sand with natural iron staining	2			Bentonite seal
			0.0		Sand Dry, medium brown, fine to medium sand with gravel, angular clasts, and some natural iron staining	3			
4-8		75	0.0			4			
			0.0			5			Sand pack
			0.0		Sand Dry, brown, fine to medium sand with gravel and angular clasts	6			
			0.0			7			
8-12		60	0.0			8			
			0.2			9			Water level (10/2/04)
			0.2	10.2-11.5		10			
			0.2		Sand and Gravel Wet, brown sand and gravel	11			
			0.0		Silt Dry, very hard and stiff, brown silt with a little clay and fine sand	12			
12-16		80	0.0			13			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0	14.0-16.0	Clay Dry to moist, gray clay with fine sand	14			
			0.0			15			
			0.0			16			Well cap
					End of Log	17			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/28/2004

DATE COMPLETED: 9/28/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP39/PZ28

GROUND ELEVATION: 678.10 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 677.81 ft. above MSL

DEPTH TO WATER: 13.07 ft. below TOC

X-COORDINATE: 518050.65

Y-COORDINATE: 935715.39

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 22.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		50	0.0		Ground Surface Asphalt and Gravel Sand and Silt Dry, dark brown sand and silt with a little gravel - unit is crumbly and breaks apart easily	0			Flush mount curb box
			0.0			1			
			0.0			2			
			0.0			3			Bentonite seal
4-8		50	0.0		Sand and Silt Moist, medium brown sand and silt with some clay and gravel - unit is less crumbly and does not break apart easily	4			
			0.0			5			
			0.0			6			
8-12		60	0.0		Sand and Silt Moist to wet, light to medium brown, fine to coarse sand and silt with gravel and angular clasts - unit is crumbly and breaks apart easily	7			
			0.0			8			
			0.0			9			
			0.0			10			Sand pack
			0.0			11			
12-16		60	0.0			12			
			0.0			13			Water level (10/2/04)
			0.0	13.9-14.9	Sand and Gravel Wet, brown, fine to medium sand and gravel	14			
			0.0			15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 9/28/2004

DATE COMPLETED: 9/28/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP39/PZ28

GROUND ELEVATION: 678.10 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 677.81 ft. above MSL

DEPTH TO WATER: 13.07 ft. below TOC

X-COORDINATE: 518050.65

Y-COORDINATE: 935715.39

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 22.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19.2		100	0.0		Sand Wet, brown, fine to medium sand	16			
			0.0		Interbedded Sand and Clay Wet, brown, fine to medium sand interbedded with wet, gray clay with fine sand	17			
			0.0			18			
19.2-22.5		100	0.0	18.8-19.2		19			1-inch PVC w/10-foot 0.010-inch slotted screen
			0.0		Sand Wet, brown to gray, fine sand with some natural iron staining	20			
			0.0			21			
			0.0	21.5-22.5		22			Well cap
					Clay Moist, gray clay with fine sand				
					End of Log	23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 10/01/2004

DATE COMPLETED: 10/01/2004

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP40/PZ29

GROUND ELEVATION: 689.71 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 689.27 ft. above MSL

DEPTH TO WATER: 9.36 ft. below TOC

X-COORDINATE: 519037.74

Y-COORDINATE: 934864.02

WEATHER: Not Recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

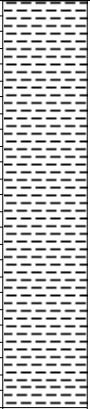
BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		60			Ground Surface Silt and Sand Dry, brown silt and sand with some grass.	0			Flush mount curb box
4-8		50	0.6		Silt and Sand Moist, soft, brown silt and sand Silt and Sand Dry, dark brown silt and sand with a little gravel in shoe	1			
			0.4			2			
			0.6			3			
8-12		60	0.6	10-12	Silt and Sand Dry, brown silt and sand with a little gravel and angular clasts - unit is crumbly and breaks apart easily - rock in shoe	4			Bentonite seal
						5			
						6			
						7			
						8			
						9			
						10			
12-16		100		15-16	Silt Moist to wet, brown silt with fine to coarse grained sand and gravel. Sand and Gravel Wet, brown sand and gravel Clay Dry, very stiff, gray clay	11			Sand pack
						12			
						13			1" PVC w/10-foot, 0.010-inch slotted screen
						14			
						15			

PROJECT: Dansville MGP- NYSEG
PROJECT NO: I03023
LOCATION: Dansville, NY
DATE STARTED: 10/01/2004
DATE COMPLETED: 10/01/2004
DRILLING CONTRACTOR: Lyon Drilling Company
DRILLER: Harry Lyon
DRILLING METHOD: Direct Push
SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP40/PZ29

GROUND ELEVATION: 689.71 ft. above MSL
PROTECTIVE CASING ELEVATION: NA
WELL ELEVATION: 689.27 ft. above MSL
DEPTH TO WATER: 9.36 ft. below TOC
X-COORDINATE: 519037.74
Y-COORDINATE: 934864.02
WEATHER: Not Recorded
GEOLOGIST: Lara Gray
ENTERED BY: Lara Gray
BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-18		100			Clay Dry, very stiff, gray clay	16			Well cap
18-20		50				17			
						18			
						19			
						20			
					End of Log	21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/2005

DATE COMPLETED: 5/10/2005

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP43/PZ30

GROUND ELEVATION: 688.23 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 687.83 ft. above MSL

DEPTH TO WATER: 10.05 ft. below TOC

X-COORDINATE: 518742.39

Y-COORDINATE: 934789.78

WEATHER: Warm, sunny, slight breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 32 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
					Ground Surface	0			Flush mount curb box
					Asphalt				
1-4		45	0.0		Fill Moist, medium brown, sand with some gravel and concrete	1			
			0.0			2			
			10.0			3			Bentonite seal
			15.0			4			
4-8		65	1.7			5			1" PVC riser
			8.7			6			
			9.7			7			
			9.7			8			
8-12		75	6.3			9			Sand pack
			2.3			10			
			3.3	10-11.5	Sand and Gravel Dry, medium brown, sand and gravel	11			Water level (5/16/05)
			4.3		Sand and Gravel Moist to wet, brown, medium to coarse grained sand and gravel	12			0.010-inch slotted PVC screen
			2.3			13			
12-16		100	1.0		Silt Dry, medium brown, stiff silt with some clay	14			
			1.0			15			
			1.0						
			1.0	14.5-15.5					
			1.0						

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/2005

DATE COMPLETED: 5/10/2005

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP43/PZ30

GROUND ELEVATION: 688.23 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 687.83 ft. above MSL

DEPTH TO WATER: 10.05 ft. below TOC

X-COORDINATE: 518742.39

Y-COORDINATE: 934789.78

WEATHER: Warm, sunny, slight breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 32 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0		Sand Wet, gray, fine sand	16			0.010-inch slotted PVC screen
			0.0			17			
			0.0			18			Sand pack
			0.0			19			
20-24		85	0.0			20			Well cap
			0.0			21			
			0.0		Silt and Sand Moist, stiff, gray silt and very fine sand with trace gravel	22			
			0.0			23			
24-28		95	0.0			24			
			0.0			25			
			0.0		Sand Wet, gray, fine sand	26			
			0.0		Silt Moist, gray silt with a little clay and trace gravel	27			
28-32		80	0.0		End of Log	28			
						29			
				30-32		30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/05

DATE COMPLETED: 5/10/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP44/PZ31

GROUND ELEVATION: 687.48 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 687.14 ft. above MSL

DEPTH TO WATER: 12.09 ft. below TOC

X-COORDINATE: 518911.13

Y-COORDINATE: 935316.36

WEATHER: Sunny, hot, slight breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 23.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0		Ground Surface	0			Flush mount curb box
			0.0		Top Soil				
			0.0		Grass with dark brown, very fine sand and top soil with trace gravel	1			
			0.0		Fill	2			
			0.0		Moist, medium brown, fine sand with trace gravel and charred wood @ 3.5' and 5.3'	3			
4-8		75	0.0			4			Bentonite seal
			0.0			5			
			0.0			6			1" PVC riser
			0.0			7			
8-12		50	0.0		Sand	8			
			0.0		Dry, medium brown, compact sand with gravel	9			
			0.0			10			
			0.0			11			Sand pack
12-16		55	0.0			12			Water level (5/16/05)
			0.0			13			
			0.0	14-15		14			0.010-inch slotted PVC screen
			0.0	15-16	Sand and Gravel	15			
					Wet, brown, loose, coarse sand and gravel				

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/05

DATE COMPLETED: 5/10/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP44/PZ31

GROUND ELEVATION: 687.48 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 687.14 ft. above MSL

DEPTH TO WATER: 12.09 ft. below TOC

X-COORDINATE: 518911.13

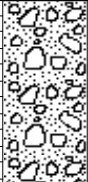
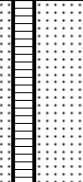
Y-COORDINATE: 935316.36

WEATHER: Sunny, hot, slight breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 23.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		80	0.0 0.0 0.0		Sand and Gravel Wet, brown, loose, coarse sand and gravel	16 17			Sand pack
			0.0		Silt and Clay Moist, brown silt with clay	18			
			0.0		Clay and Sand Moist, gray clay with fine sand and some natural iron staining	19			
20-23.5		100	0.0 0.0 0.0			20 21			0.010-inch slotted PVC screen
			0.0 0.0 0.0 0.0	21.5-22.5		22			Well cap
					End of Log	23 24 25 26 27 28 29 30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/05

DATE COMPLETED: 5/10/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP45/PZ32

GROUND ELEVATION: 684.28 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 683.96 ft. above MSL

DEPTH TO WATER: 9.3 ft. below TOC

X-COORDINATE: 518806.97

Y-COORDINATE: 935319.90

WEATHER: Hot, sunny, light breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		90	0.0		Ground Surface	0			Flush mount curb box
			0.0		Top Soil				
			0.0		Grass and medium to dark brown, very fine sand with some root material	1			
			0.0		Sand	2			Bentonite seal
			0.0		Moist, medium brown, fine sand	3			
			0.0			4			1" PVC riser
4-8		50	0.0		Sand and Gravel	5			
			0.0		Moist, brown, medium grained sand with some gravel	6			
			0.0			7			Sand pack
8-12		50	0.0			8			
			0.0			9			Water level (5/16/05)
			0.0			10			
			20			11			0.010-inch slotted PVC screen
12-16		100		11.5-12	Sand and Gravel	12			
				12-13	Wet, brown, fine sand and gravel. Slight sheen and odor present with very small NAPL globules.	13			
				13-13.5	Sand	14			
					Wet, brown, fine sand	15			
			0.0						

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/10/05

DATE COMPLETED: 5/10/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP45/PZ32

GROUND ELEVATION: 684.28 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 683.96 ft. above MSL

DEPTH TO WATER: 9.3 ft. below TOC

X-COORDINATE: 518806.97

Y-COORDINATE: 935319.90

WEATHER: Hot, sunny, light breeze

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0 0.0 0.0 0.0 0.0 0.0	15.5-16 18-20	Sand and Clay Wet to moist, interbedded, brown, fine sand and gray clay	16 17 18 19 20			Well cap
					End of Log	21 22 23 24 25 26 27 28 29 30			

BOREHOLE DEPTH: 26.5 ft. below grade

DV-DP46/PZ33

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		90	0.0		Ground Surface	0			Flush mount curb box
			0.0		Topsoil				
			0.0		Grass and dry, light brown sand, gravel and topsoil				
			0.0		Fill	1			
			0.0		Dry, dark brown, sand and gravel with a little coal-like material (CLM) at 1.8'	2			
			0.0		Sand	3			1" PVC riser
			0.0		Dry to moist, medium brown, fine sand	4			
4-8		75	0.0			5			
			0.0			6			Bentonite seal
			0.0		Silt	7			
			0.0		Dry to moist, stiff, brown silt with fine sand and some medium-large gravel	8			
8-12		50	0.0			9			
			0.0			10			Water level (5/17/05)
			0.0			11			
12-16		100	0.0	12-16	Sand and Gravel	12			0.010-inch slotted PVC screen
			0.0		Moist to wet, brown, loose sand and gravel	13			
			0.0		Sand	14			Sand pack
			0.0		Moist to wet, gray, fine sand with interbedded silt and clay lenses	15			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/11/05

DATE COMPLETED: 5/11/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP46/PZ33

GROUND ELEVATION: 689.57 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 689.17 ft. above MSL

DEPTH TO WATER: 10.24 ft. below TOC

X-COORDINATE: 519069.00

Y-COORDINATE: 934986.70

WEATHER: Hot and sunny

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 26.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0 0.0 0.0 0.0		Sand Moist to wet, gray, fine sand with interbedded silt and clay lenses	16			Sand pack
20-23		100	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			17			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			18			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			19			0.010-inch slotted PVC screen
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			20			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			21			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			22			Well cap
23-26.5		100	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			23			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			24			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	25-26		25			
			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			26			
					End of Log	27			
						28			
						29			
						30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/11/05

DATE COMPLETED: 5/11/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP47/PZ34

GROUND ELEVATION: 684.50 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 684.22 ft. above MSL

DEPTH TO WATER: 6.79 ft. below TOC

X-COORDINATE: 519138.91

Y-COORDINATE: 935213.22

WEATHER: Warm, sunny, breezy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

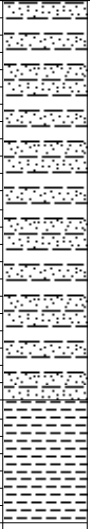
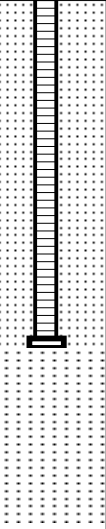
BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	1.0		Ground Surface	0			Flush mount curb box
			2.0		Topsoil Dry, light brown silt with grass and root material	0.5			
			20		Silt and Sand Dry, brown silt and sand with some root material	1.5			Bentonite seal
			40			2.5			
4-8		65	2.0		Sand and Gravel Dry, brown sand with gravel and some broken rock clasts	3.5			1" PVC riser
			0.0			4.5			
			0.0			5.5			
			0.0			6.5			
			0.0			7.5			Water level (5/17/05)
8-12		95	0.0		Sand and Gravel Moist to wet brown sand and gravel	8.5			0.010-inch slotted PVC screen
			0.0	9-10		9.5			
			0.0			10.5			
			0.0		Sand Wet, brown and orange, fine sand	11.5			
			0.0		Clay and Sand Wet, gray, interbedded clay and fine sand	12.5			
12-16		85	0.0			13.5			Sand pack
			0.0			14.5			
			0.0			15.5			
			0.0			16.5			
			0.0			17.5			
			0.0			18.5			
			0.0			19.5			

PROJECT: Dansville MGP- NYSEG
PROJECT NO: I03023
LOCATION: Dansville, NY
DATE STARTED: 5/11/05
DATE COMPLETED: 5/11/05
DRILLING CONTRACTOR: Lyon Drilling Company
DRILLER: Harry Lyon
DRILLING METHOD: Direct Push
SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP47/PZ34

GROUND ELEVATION: 684.50 ft. above MSL
PROTECTIVE CASING ELEVATION: NA
WELL ELEVATION: 684.22 ft. above MSL
DEPTH TO WATER: 6.79 ft. below TOC
X-COORDINATE: 519138.91
Y-COORDINATE: 935213.22
WEATHER: Warm, sunny, breezy
GEOLOGIST: Lara Gray
ENTERED BY: Amanda Bissell
BOREHOLE DEPTH: 20 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0	18.5-19.5	Clay and Sand Wet, gray, interbedded clay and fine sand	15			
			0.0						
			0.0						
			0.0						
			0.0						
			0.0						
			0.0						
			0.0						
			0.0						
			0.0						
			0.0		Clay Moist, gray clay with a little fine sand	19			
			0.0		End of Log	20			
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			

Well cap

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/12/05

DATE COMPLETED: 5/12/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP49/PZ35

GROUND ELEVATION: 686.40 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.06 ft. above MSL

DEPTH TO WATER: 10.72 ft. below TOC

X-COORDINATE: 518621.76

Y-COORDINATE: 935040.49

WEATHER: Cool, cloudy, breezy

GEOLOGIST: Amanda Bissell

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 24 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		80	0.0		Ground Surface	0			Flush mount curb box
			0.0		Fill				
			0.0		Dry, dark brown sand with grass, root material, and some coal-like material (CLM)	1			
			0.0		Fill	2			1" PVC riser
			0.0		Dry to moist, light brown, cohesive, fine sand with some root material; grain size coarsens with depth	3			
4-8		80	0.0			4			
			0.0			5			Bentonite seal
			0.0			6			
			0.0			7			
8-12		70	0.0		Fill	8			Sand pack
			0.0		Moist, brown, cohesive, fine to coarse grained sand with sub-angular gravel, some natural iron staining present and black CLM	9			
			0.0			10			
			0.0			11			Water level (5/17/05)
12-16		95	0.0			12			0.010-inch slotted PVC screen
			0.0		Silt and Gravel				
			0.0		Very wet, silt matrix with small angular gravel	13			
			0.0	13-14	Sand and Gravel				
			0.0		Wet, brown, loose, medium to very coarse sand interbedded with small to coarse gravel	14			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/12/05

DATE COMPLETED: 5/12/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP49/PZ35

GROUND ELEVATION: 686.40 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.06 ft. above MSL

DEPTH TO WATER: 10.72 ft. below TOC

X-COORDINATE: 518621.76

Y-COORDINATE: 935040.49

WEATHER: Cool, cloudy, breezy

GEOLOGIST: Amanda Bissell

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 24 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		100	0.0 0.0 0.0 0.0 0.0 0.0		Sand and Clay Wet, light brown, cohesive, very fine sand interbedded with moist gray clay. Some natural iron staining present.	15 16 17 18 19			0.010-inch slotted PVC screen
20-24		100	0.0 0.0 0.0 0.0 0.0	22-23		20 21 22 23			Well cap
			0.0		End of Log	24 25 26 27 28 29			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/12/05

DATE COMPLETED: 5/12/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP51/PZ36

GROUND ELEVATION: 686.43 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.13 ft. above MSL

DEPTH TO WATER: 9.66 ft. below TOC

X-COORDINATE: 518972.45

Y-COORDINATE: 935220.83

WEATHER: Warm, sunny, breezy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 22.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		25			Ground Surface Fill Dry, brown sand with angular gravel and concrete	0			Flush mount curb box
			0.5			1			
			0.7			2			Bentonite seal
						3			
4-8		95	0.3			4			1" PVC riser
			0.7			5			
			0.0		Sand Dry, brown and gray, fine sand				
					Sand Dry, fine sand with small clasts (2mm-2.5cm)				
			1.0		Sand and Gravel Dry to moist, medium brown, tightly packed, fine sand with medium to large gravel				
			0.0			6			
						7			
8-12		50				8			Sand pack
						9			
			0.0			10			Water level (5/18/05)
			57			11			
12-16		100	12	12-12.3	Sand and Gravel Wet, gray, medium sand with small gravel, a slight odor, and some iron staining.	12			0.010-inch slotted PVC screen
			10	12.5-13.5	Sand Wet, orange and brown, fine sand with natural iron staining and a slight odor	13			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/12/05

DATE COMPLETED: 5/12/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP51/PZ36

GROUND ELEVATION: 686.43 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 686.13 ft. above MSL

DEPTH TO WATER: 9.66 ft. below TOC

X-COORDINATE: 518972.45

Y-COORDINATE: 935220.83

WEATHER: Warm, sunny, breezy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 22.5 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19		100			Sand and Clay Wet, interbedded, gray, fine sand with wet, gray clay. Slight odor present between 13.7' and 14.3'.	14			
						15			
						16			Sand pack
						17			0.010-inch slotted PVC screen
						18			
19-22.5		100	0.5			19			Well cap
			0.0			20			
			0.0	20-21		21			
			0.0			22			
			0.0			23			
			0.0			24			
			0.0			25			
			0.0			26			
			0.0			27			
					End of Log				

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/13/05

DATE COMPLETED: 5/13/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP52/PZ37

GROUND ELEVATION: 685.60 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.25 ft. above MSL

DEPTH TO WATER: 10.75 ft. below TOC

X-COORDINATE: 518554.34

Y-COORDINATE: 935120.41

WEATHER: Cool, cloudy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 19 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0		Ground Surface	0			Flush mount curb box
			0.0		Topsoil	0			
			0.0		Dry, medium to dark brown sand with grass and root material	1			
			0.0			2			1" PVC riser
			0.0		Sand	2			
			0.0		Moist, orangy brown, fine sand with a little root material and trace gravel	3			
4-8		70	0.0			4			Bentonite seal
			0.0			5			
			0.0			6			
			0.0		Sand and Gravel	6			
			0.0		Dry to moist, medium brown, medium to coarse sand with both angular and rounded gravel and clasts	7			Sand pack
8-12		70	0.0			8			
			0.0			9			0.010-inch slotted PVC screen
			0.0			10			
			0.0	10.5-11.5		11			Water level (5/18/05)
			0.0			12			
12-16		100	0.0	12-12.5		13			
			0.0		Sand	13			
			0.0		Moist, orangy-brown, fine sand with some natural iron staining	14			
			0.0		Clay and Sand	14			
			0.0		Moist to wet, gray clay with fine sand	15			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/13/05

DATE COMPLETED: 5/13/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP52/PZ37

GROUND ELEVATION: 685.60 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.25 ft. above MSL

DEPTH TO WATER: 10.75 ft. below TOC

X-COORDINATE: 518554.34

Y-COORDINATE: 935120.41

WEATHER: Cool, cloudy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 19 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19		100	0.0 0.0 0.0 0.0 0.0 0.0	16-17 17-18	Clay and Sand Moist to wet, gray clay with fine sand	16 17 18 19			Sand pack Well cap
					End of Log	19 20 21 22 23 24 25 26 27 28 29 30			

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/13/05

DATE COMPLETED: 5/13/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP53/PZ38

GROUND ELEVATION: 681.50 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 680.80 ft. above MSL

DEPTH TO WATER: 7.34 ft. below TOC

X-COORDINATE: 518834.40

Y-COORDINATE: 935625.38

WEATHER: Sunny, cool, breezy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 22 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		75	0.0 0.0 0.0 0.0 0.0		Ground Surface Fill Dry, dark brown sand with grass, root material, and some coal-like material (CLM)	0 1 2			Flush mount curb box Bentonite seal
4-8		50	0.0 0.0 0.0		Sand and Clasts Dry, medium brown sand with large clasts Sand Dry to moist, brown, medium sand with black staining present at 3.4' Sand and Clasts Dry to moist, brown, medium sand with small angular to rounded gravel and large angular clasts	3 4 5 6 7			1" PVC riser
8-12		70	0.0 0.0 0.0 0.0			8 9 10 11			Water level (5/18/05) 0.010-inch slotted PVC screen
12-16		100	0.0 0.0 0.0 0.0 0.0 0.0	10.5-11.5	Sand and Gravel Wet, dark to medium brown, cohesive, fine to coarse sand with small to medium rounded and angular gravel. Some natural iron staining present. Sand Moist, orangy brown, cohesive, fine sand with some natural iron staining Clay and Sand Wet, interbedded, gray clay and fine sand	12 13 14 15			Sand pack

PROJECT: Dansville MGP- NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 5/13/05

DATE COMPLETED: 5/13/05

DRILLING CONTRACTOR: Lyon Drilling Company

DRILLER: Harry Lyon

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Macro-Cores

DV-DP53/PZ38

GROUND ELEVATION: 681.50 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 680.80 ft. above MSL

DEPTH TO WATER: 7.34 ft. below TOC

X-COORDINATE: 518834.40

Y-COORDINATE: 935625.38

WEATHER: Sunny, cool, breezy

GEOLOGIST: Lara Gray

ENTERED BY: Amanda Bissell

BOREHOLE DEPTH: 22 ft. below grade

SAMPLE INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OVM (PPM)	ANALYTICAL SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-19		100	0.0 0.0 0.0 0.0 0.0 0.0	16-17	Clay and Sand Wet, interbedded, gray clay and fine sand	16			Sand pack
19-22			0.0		No Recovery	19			Well cap
					End of Log	20			
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 12/18/2003

DATE COMPLETED: 12/18/2003

DRILLING CONTRACTOR: Nothnagle Drilling

DRILLER: Neil Short

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Cores

DV-SB20/MW04

GROUND ELEVATION: 686.39 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.86 ft. above MSL

DEPTH TO WATER: 11.10 ft. below TOC

X-COORDINATE: 518669.62

Y-COORDINATE: 935175.69

WEATHER: Not recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SPLIT SPOON INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OMV (PPM)	SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
0-4		60	0.6		Ground Surface Asphalt and Concrete Fill Dry, brown silty sand with some gravel and debris	0			Flush mount curb box
4-8		50	0.8		Fill Dry, brown sand and gravel with some brick Gravel and Sand Moist to wet, brown gravel and sand	1			Grout
8-12		60	0.7		Gravel and Sand Wet, brown gravel and sand	2			Bentonite seal
12-16		60	24.2	12-14'	Gravel and Sand Wet, brown gravel and sand with sheens and odor	3			Sand pack
						4			Water level (2/16/04)
						5			2-inch PVC w/10-foot 0.010-inch slotted screen
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			

PROJECT: Dansville MGP - NYSEG

PROJECT NO: I03023

LOCATION: Dansville, NY

DATE STARTED: 12/18/2003

DATE COMPLETED: 12/18/2003

DRILLING CONTRACTOR: Nothnagle Drilling

DRILLER: Neil Short

DRILLING METHOD: Direct Push

SAMPLE METHOD: 4' Geoprobe Cores

DV-SB20/MW04

GROUND ELEVATION: 686.39 ft. above MSL

PROTECTIVE CASING ELEVATION: NA

WELL ELEVATION: 685.86 ft. above MSL

DEPTH TO WATER: 11.10 ft. below TOC

X-COORDINATE: 518669.62

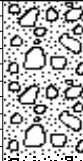
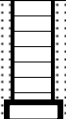
Y-COORDINATE: 935175.69

WEATHER: Not recorded

GEOLOGIST: Lara Gray

ENTERED BY: Lara Gray

BOREHOLE DEPTH: 20 ft. below grade

SPLIT SPOON INTERVAL (ft.)	BLOWS PER 0.5 ft.	% RECOVERY	OMV (PPM)	SAMPLE	SOIL DESCRIPTION	DEPTH (ft.)	LITHOLOGY	WELL CONSTRUCTION	REMARKS
16-20		80	10.4			16			
				18-20'	Clay Moist, brown grading to gray clay with sheen on outside of clay from layer above	17			Well cap
			2.4			18			
						19			
					End of Log	20			
						21			
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

Date Start/Finish: 5/26 - 5/27/2015 Drilling Company: Nothnagle Drilling, Inc. Driller's Name: Neil Short Drilling Method: Hollow Stem Auger Sampling Method: 4' Acetate Liner Rig Type: CME-55 Auger Size: 10.25" ID	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 21' bgs Surface Elevation: NA' AMSL Descriptions By: Nicholas (Klaus) Beyrle	Well/Boring ID: NRW-1 Client: NYSEG Location: 50 Ossian Street Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0							Steel flushmount cover Locking J-Plug Concrete Pad (0-0.5' bgs) Sand Drain (0.5-1' bgs) Bentonite/concrete Grout (1-5' bgs) 6" Sch 40 PVC Riser (0.5'-9' bgs) Bentonite Seal (5-7' bgs) Pea Gravel Filter Pack (7-18' bgs) 6" Sch 40 PVC 0.030" Slot Screen (9-18' bgs)
		1	0-4	1.2	0.0		Brown very fine to medium SAND and SILT, little to trace very fine to medium Gravel, moist. Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	
					0.0			
					0.0			
					0.0			
-5	-5	2	4-8	1.0	0.0			
					0.0			
					0.0			
					0.0			
-10	-10	3	8-12	1.1	0.0		Brown SILT, some to little very fine Sand, trace very fine to fine Gravel, trace Clay, soft, moist to wet.	
					0.0			
					0.0			
		4	12-15	NA	NA		NO RECOVERY.	
-15	-15						Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	

	Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.

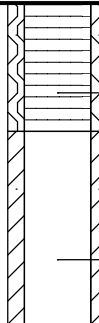
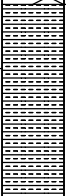
Client: NYSEG

Well/Boring ID: NRW-1

Site Location:

Borehole Depth: 21' bgs

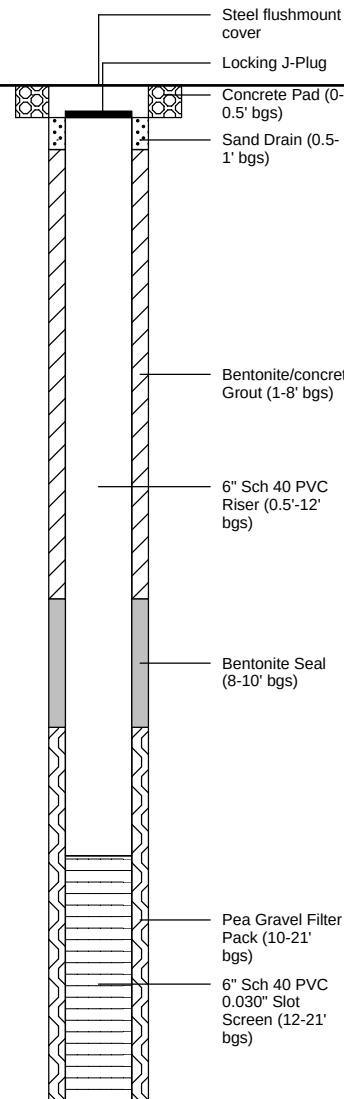
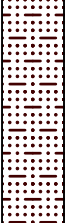
50 Ossian Street
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		5	15-19	1.5	0.0 0.0 0.0		Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	 - Pea Gravel Filter Pack (7-21' bgs) 6" Sch 40 PVC 0.030" Slot Screen (9-18' bgs) - Grout (18-21' bgs) - Sump (18-21' bgs)
-20	-20	6	19-21	1.4	0.0 0.0 0.0		Gray SILTY CLAY, plastic, medium stiff, moist.	
-25	-25							
-30	-30							
-35	-35							



Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.

Date Start/Finish: 5/26 - 5/27/2015 Drilling Company: Nothnagle Drilling, Inc. Driller's Name: Neil Short Drilling Method: Hollow Stem Auger Sampling Method: 4' Acetate Liner Rig Type: CME-55 Auger Size: 10.25" ID	Northing: NA Easting: NA Casing Elevation: NA Borehole Depth: 24' bgs Surface Elevation: NA' AMSL Descriptions By: Nicholas (Klaus) Beyrle	Well/Boring ID: NRW-2 Client: NYSEG Location: 50 Ossian Street Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0							 Steel flushmount cover Locking J-Plug Concrete Pad (0-0.5' bgs) Sand Drain (0.5-1' bgs) Bentonite/concrete Grout (1-8' bgs) 6" Sch 40 PVC Riser (0.5'-12' bgs) Bentonite Seal (8-10' bgs) Pea Gravel Filter Pack (10-21' bgs) 6" Sch 40 PVC 0.030" Slot Screen (12-21' bgs)
		1	0-4	0.9	0.0		Brown SILT and very fine to fine SAND, some very fine to very coarse Gravel, moist. Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	
-5	-5	2	4-8	1.8	0.0		Brown SILT and very fine SAND, little to trace very fine to coarse rounded Gravel, medium dilatant, no plasticity, wet.	
-10	-10	3	8-12	1.3	0.0		Brown SILT and very fine SAND, some to little very fine to coarse rounded Gravel, medium dilatant, no plasticity, wet. Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	
-15	-15	4	12-15	0.5	0.0			

 Infrastructure · Water · Environment · Buildings	Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.

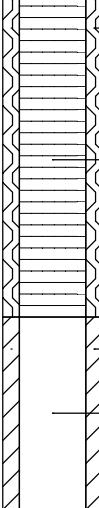
Client: NYSEG

Well/Boring ID: NRW-2

Site Location:

Borehole Depth: 24' bgs

50 Ossian Street
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		5	15-19	1.2	0.0 0.0 0.0		Gray very fine to very coarse angular GRAVEL, little Silt (Crusher Run), dry.	 Pea Gravel Filter Pack (10-21' bgs) 6" Sch 40 PVC 0.030" Slot Screen (12-21' bgs) Grout (21-24' bgs) Sump (21-24' bgs)
20	-20	6	19-24	2.0	0.0 0.0		Gray SILT and CLAY, plastic, moist to wet.	
25	-25							
30	-30							
35	-35							



Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.

Date Start/Finish: 7/23/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934409.51 Easting: 1385559.36 Borehole Depth: 19' bgs Surface Elevation: 686.00' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-01 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt. FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, very loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	1.1	WOH WOH 3	2	24.7 8.9		Olive brown grading to reddish brown SILT; trace to little very fine Sand; trace organics; moist, medium stiff.	Bentonite Cement Grout (1'-3.5' bgs)
		3	7-9	0.8	9 8 12 10	20	0.6		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose. Slight odor starting at 9 feet bgs.	Hydrated Granular Bentonite (3.5'-5.5' bgs)
10		4	9-11	0.9	12 12 7 12	19	4.4 127.9		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, moderate petroleum-like odor, trace sheen on water in pore space.	4" Dia. SCH40 PVC Riser (0'-7.5' bgs)
675		5	11-13	0.9	5 6 5 6	11	52.4		Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; wet, loose, moderate petroleum-like odor, little brown OLM on water in pore space.	4" Dia., 0.020" slot SCH40 PVC Well Screen (7.5'-15.5' bgs)
		6	13-15	0.8	3 4 3 4	7	27.1			#0 Sand Pack (5.5'-16.5' bgs)
15		7	15-17	0.9	2 2	4	24.7		Grey SILT; little Clay; moist and wet, soft to medium stiff, slight petroleum-like odor.	
670										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



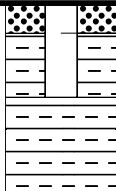
Client: NYSEG

Well/Boring ID: **AW-01**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	0.9	2 2	4	24.7		Grey SILT; little Clay; moist and wet, soft to medium stiff, slight petroleum-like odor.	
		8	17-19	NR	1 2 1 2	3	NA		No Recovery. Little blebs of black OLM on water in spoon.	
20	665								End of Boring. Boring terminated at 19' bgs.	
25	660									
30	655									
35										



Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/23/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934404.11 Easting: 1385588.28 Borehole Depth: 19' bgs Surface Elevation: 686.30' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-03 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt. FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	NR	1 2 2 3	4	0.0		No Recovery - Rock stuck in sample shoe.	Bentonite Cement Grout (1'-4' bgs)
		3	7-9	0.5	2 2 3 3	5	0.0		Brown very fine to medium SAND; some fine to medium Gravel, angular to subround; little Silt; moist, loose.	Hydrated Granular Bentonite (4'-6' bgs)
10		4	9-11	0.7	4 6 3 4	9	0.0 0.0		Brown fine to coarse SAND and fine to coarse Gravel, angular to subround; moist to wet, loose.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
675		5	11-13	NR	4 5 7 8	NA	NA		No Recovery - Rock stuck in sample shoe.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
		6	13-15	1.1	8 9 4 4	13	NA		Brown fine to coarse SAND and fine to coarse Gravel, angular to subround; moist to wet, loose, trace to little black OLM in pore space at 13.5 to 14 feet bgs., moderate petroleum-like odor.	#0 Sand Pack (6'-16' bgs)
15		7	15-17	1.5	2 2	6	NA		Grey SILT; little grading to some Clay; moist and wet, soft to medium stiff, slight petroleum-like odor.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: AW-03

Site Location:

Dansville Manufactured Gas Plant - OU2
Dansville, NY

Borehole Depth:

19' bgs

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
17.5	665	7	15-17	1.5	4	6	NA		Grey SILT; little grading to some Clay; moist and wet, soft to medium stiff, slight petroleum-like odor.	2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
18.5	665	8	17-19	1.9	4	9	NA			
19.5	665				5					
20.5	665				6					
21.5	665									
22.5	665									
23.5	660								End of Boring. Boring terminated at 19' bgs.	
24.5	660									
25.5	660									
26.5	660									
27.5	660									
28.5	660									
29.5	660									
30.5	655									
31.5	655									
32.5	655									
33.5	655									
34.5	655									
35.5	655									



Design & Consultancy
for natural and
built assets

Remarks:

bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/22/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934403.95 Easting: 1385602.97 Borehole Depth: 19' bgs Surface Elevation: 686.46' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-04 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
	685	1	0-5	NA	NA	NA	0.0		Asphalt.	Concrete Pad (0'-1' bgs)
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	
5		2	5-7	0.2	WOH 1	2	NA		Brown SILT; little Organics; moist, soft.	Bentonite Cement Grout (1'-4' bgs)
	680				2					Hydrated Granular Bentonite (4'-6' bgs)
		3	7-9	0.7	WOH 1	3	NA		Dark brown SILT; little Organics; little Clay; moist, soft.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
					2					
10		4	9-11	0.8	WOH 1	2	NA		Dark brown SILT; little fine to coarse Gravel, subangular to subround; little Organics; little Clay; moist, soft, some black discoloration, slight petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
					3					
	675	5	11-13	0.6	WOH 5	22	NA		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; wet, loose, little sheen, trace black blebs of OLM on surface of water in pore space, moderate petroleum-like odor.	#0 Sand Pack (6'-16' bgs)
					8					
					14					
					10					
		6	13-15	0.8	WOH 3	4	NA		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; little Silt; little Clay; wet, loose, some dark brown blebs of OLM on surface of water in pore space, moderate petroleum-like odor.	
					2					
15					2				Grey SILT; little Clay; wet and moist, soft, rapid dilatancy at intervals of 15.2 to 15.4, 15.6 to 15.7, 15.9 to 16, and 16.5 to 16.6 feet bgs, moderate to slight petroleum-like odor.	
		7	15-17	1.7	WOH 2	7	NA		Grey SILT; little Clay; wet and moist, soft, rapid dilatancy at intervals of	2-ft Sump (15'-17' bgs)
					3					

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



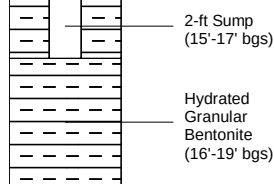
Client: NYSEG

Well/Boring ID: **AW-04**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headpace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.7	4 3	7	NA		15.2 to 15.4, 15.6 to 15.7, 15.9 to 16, and 16.5 to 16.6 feet bgs, moderate to slight petroleum-like odor.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
		8	17-19	1.3	WOH 1 2 1	3	NA		Grey SILT and CLAY; moist, soft, medium plasticity.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/22/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934403.05 Easting: 1385618.43 Borehole Depth: 19' bgs Surface Elevation: 686.56' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-05 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										
685		1	0-5	NA	NA	NA	0.0		Asphalt.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5					WOH				Brown SILT; little Organics; trace Shell fragments; moist, soft.	Bentonite Cement Grout (1'-4' bgs)
680		2	5-7	1.1	1	3	NA		Dark brown very fine to medium SAND; little fine to coarse Gravel, angular to subround; little Silt; moist, loose.	Hydrated Granular Bentonite (4'-6' bgs)
					2					4" Dia. SCH40 PVC Riser (0'-8' bgs)
					1					
		3	7-9	0.5	10	30	NA		Dark brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist, loose.	
					14					
					16					
					11					
10		4	9-11	0.5	5	21	NA		Dark brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, moderate petroleum-like odor, little sheen on water in pore space, trace brown OLM.	
					4					
					17					4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
					12					
675		5	11-13	0.6	8	17	NA		Grey very fine to medium SAND and fine to coarse GRAVEL, angular to subangular; little Silt; wet, loose, moderate petroleum-like odor, little sheen on water in pore space.	#0 Sand Pack (6'-16' bgs)
					8					
					8					
					9					
					10					
		6	13-15	0.4	8	12	NA		Grey very fine to medium SAND and fine to coarse GRAVEL, angular to subangular; little Silt; wet, loose, moderate petroleum-like odor, little sheen on water in pore space.	
					7					
					5					
15					4				Grey SILT; little Clay; trace very fine Sand; wet and moist, soft, rapid dilatancy at intervals of 15 to 15.4 and 15.5 to 15.6 feet bgs, low plasticity, slight petroleum-like odor.	2-ft Sump (15'-17' bgs)
		7	15-17	1.6	2	9	NA			
					4					

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Client: NYSEG

Well/Boring ID: **AW-05**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.6	5 3	9	NA		Grey SILT; little to some Clay; trace very fine Sand; wet and moist, soft, rapid dilatancy at 17.4 to 17.6 feet bgs, medium plasticity, slight petroleum-like odor.	2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
		8	17-19	1.2	2 3 5 7	8	NA			
20		9	19-21						End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/22/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934398.53 Easting: 1385633.13 Borehole Depth: 19' bgs Surface Elevation: 686.72 AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-06 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
	685	1	0-5	NA	NA	NA	0.0		Asphalt.	Concrete Pad (0'-1' bgs)
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	
5		2	5-7	1.6	WOH WOH WOH	2	NA		Very dark brown SILT; little Organics; moist, soft, slight odor.	Bentonite Cement Grout (1'-4' bgs)
	680								Olive grey SILT; little Clay; trace Organics; moist, soft, low plasticity, slight petroleum-like odor.	Hydrated Granular Bentonite (4'-6' bgs)
		3	7-9	0.9	8 7 8 9	15	NA		Brown very fine to fine SAND; little Silt; trace fine to coarse Gravel, angular to round; moist, medium dense, slight petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
									Reddish brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist, loose.	
10		4	9-11	0.7	4 14 10 7	24	NA		Dark olive brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist and wet, loose, little brown OLM on water in pore space, moderate petroleum-like odor.	
	675	5	11-13	0.5	5 5 7 8	12	NA		Dark olive brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, some black OLM on water in pore space, moderate petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
									No Recovery.	#0 Sand Pack (6'-16' bgs)
15		6	13-15	NR	5 6 7 5	NA	NA		Grey SILT; little Clay; trace very fine Sand; wet and moist, medium stiff, low plasticity, little sheen on water in pore space, slight petroleum-like odor.	2-ft Sump (15'-17' bgs)
		7	15-17	1.3	5 4	9	NA			

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



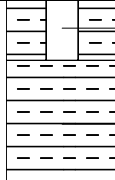
Client: NYSEG

Well/Boring ID: **AW-06**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

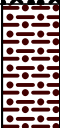
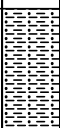
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.3	5	9	NA		Grey SILT; little Clay; trace very fine Sand; wet and moist, medium stiff, low plasticity, little sheen on water in pore space, slight petroleum-like odor.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
					5					
		8	17-19	1.3	1					
					2	6	NA			
					4					
					1					
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/21/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934397.84 Easting: 1385647.76 Borehole Depth: 19' bgs Surface Elevation: 686.74' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-07 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt. FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.8	WOH WOH WOH	2	0.1 0.2		Very dark brown SILT; trace very fine Sand; trace Clay; trace Organics; moist, soft.	Bentonite Cement Grout (1'-4' bgs)
680		3	7-9	1.0	9 12 12 14	24	0.1		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, moderate petroleum-like odor starting at 9 feet bgs.	Hydrated Granular Bentonite (4'-6' bgs)
10		4	9-11	1.0	10 9 10 9	19	305.7 952.8		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; wet, loose, some black and brown OLM on water in pore space, strong petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
675		5	11-13	NR	10 12 13 14	24	NA		No Recovery.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
		6	13-15	1.4	3 4 5 3	9	NA		Grey SILT; little Clay; trace very fine Sand; wet and moist, medium stiff to soft, slight petroleum-like odor.	#0 Sand Pack (6'-16' bgs)
15		7	15-17	1.8	1 2	4	NA		Grey SILT; little Clay; wet and moist, medium stiff, low plasticity, slight petroleum-like odor.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: **AW-07**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.8	2 2	4	NA		Grey SILT; little Clay; wet and moist, medium stiff, low plasticity, slight petroleum-like odor.	2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
		8	17-19	1.6	2 2 5 3	7	NA			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
									End of Boring. Boring terminated at 19' bgs.	
30										
655										
35										



Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/21/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934397.43 Easting: 1385662.85 Borehole Depth: 19' bgs Surface Elevation: 687.08' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-08 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Asphalt.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5										Bentonite Cement Grout (1'-4' bgs)
		2	5-7	1.4	1	2	0.1		Black SILT; little Clay; little Organics; moist, soft.	Hydrated Granular Bentonite (4'-6' bgs)
					1		0.2		Dark olive grey SILT and CLAY; moist, soft, medium plasticity, trace black discoloration.	
					1		0.3		Dark olive grey SILT and CLAY; moist, soft, medium plasticity, little black discoloration, slight to moderate petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
680		3	7-9	1.6	WOH	18	3.1		Dark brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, moderate petroleum-like odor.	
					17		56.2			
					15		328.9			
10		4	9-11	1.2	10	25	106.1		Dark brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; wet, loose, moderate petroleum-like odor, sheen on water in pore space.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
					11		202.7			
					14					
					17					
675		5	11-13	NR	12	31	NA		No Recovery. Rock stuck in sample shoe.	#0 Sand Pack (6'-16' bgs)
					14					
					17					
					12					
		6	13-15	1.4	3	7	7.5		Grey SILT; trace very fine Sand; trace Clay; wet and moist, medium stiff, rapid dilatancy at 13.5 to 13.7 and 14.1 to 14.2 feet bgs.	
					4		12.3			
					3		15.7			
15		7	15-17	1.3	3	6	3.9		Grey SILT; little Clay; trace very fine Sand; wet and moist, medium stiff.	2-ft Sump (15'-17' bgs)
					3					

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



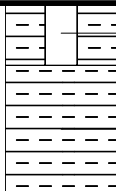
Client: NYSEG

Well/Boring ID: **AW-08**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.3	3 3	6	5.1		Grey SILT; little Clay; trace very fine Sand; wet and moist, medium stiff.	
		8	17-19	NR	1 4 4 3	8	NA		No Recovery.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										



Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/21/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934396.70 Easting: 1385677.79 Borehole Depth: 19' bgs Surface Elevation: 687.03' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-09 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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	687.03									
0									Asphalt.	8" Flush-mounted Well Box
0									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
0.5	685	1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-5' bgs)
5									Dark olive brown SILT and CLAY; trace very fine Sand; trace Organics; moist, soft, medium plasticity.	Hydrated Granular Bentonite (5'-7' bgs)
		2	5-7	0.8	WOH 1	2	0.9 0.8			
6	680								Light brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, moderate petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-9' bgs)
		3	7-9	1.0	20 19 30	39	272.1 174.5			
10									Light brown, discolored green fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, strong petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9'-15' bgs)
		4	9-11	1.0	12 11 10 10	21	10.9 8.4 410.7			
									Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; wet, loose, strong petroleum-like odor.	#0 Sand Pack (7'-16' bgs)
	675	5	11-13	0.2	5 6 7 7	13	22.1			
									Grey SILT; trace very fine Sand; trace Clay; wet and moist, medium stiff, slow dilatancy at 13.1 to 13.4 feet bgs.	
		6	13-15	1.2	1 2 3 5	5	10.8 11.5			
15										2-ft Sump (15'-17' bgs)
		7	15-17	1.5	4 5	10	4.9			

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



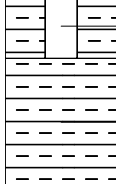
Client: NYSEG

Well/Boring ID: **AW-09**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.5	5 3	10	7.2		Grey SILT; trace very fine Sand; trace Clay; wet and moist, medium stiff.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
		8	17-19	1.0	5 3 3 4	6	1.8 2.2			
20										
665										
25										
660										
30										
655										
35										

Remarks:

bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/20/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934396.01 Easting: 1385692.75 Borehole Depth: 19' bgs Surface Elevation: 686.92' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-10 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt.	Concrete Pad (0'-1' bgs)
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Bentonite Cement Grout (1'-4.5' bgs)
5		2	5-7	1.5	WOH WOH WOH	2	0.7 4.7 2.1		Very dark brown and black SILT; little Fill; little Organics; moist, soft.	Hydrated Granular Bentonite (4.5'-6.5' bgs)
680					WOH WOH				Dark olive grey SILT; some Clay; moist, medium stiff, medium plasticity.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
		3	7-9	1.0	WOH 17 14	18	111.2 71.4		Dark olive grey SILT; some Clay; moist, medium stiff, medium plasticity, moderate petroleum-like odor.	
									Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist, loose.	
10		4	9-11	0.8	9 9 9	18	36.2 37.9		Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, trace brown OLM on water in pore space, moderate petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-15.5' bgs)
675		5	11-13	1.0	5 10 6 7	16	7.9 29.2		Grey very fine medium SAND; some Silt; little fine to coarse Gravel, angular to subround; wet, dense, trace black OLM, moderate petroleum-like odor	#0 Sand Pack (6.5'-16.5' bgs)
									Grey SILT; some very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy.	
		6	13-15	1.2	2 2 2 3	4	10.1 11.2 9.8		Grey SILT; little to trace very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy at 13 to 13.3 and 13.5 to 13.7 feet bgs.	
15		7	15-17	1.5	2 4	8	8.4		Grey SILT; trace Clay; wet, medium stiff.	2-ft Sump (15.5'-17.5' bgs)

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



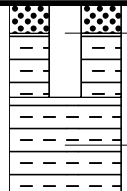
Client: NYSEG

Well/Boring ID: **AW-10**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.5	4	8	9.7		Grey SILT; little Clay; wet, medium stiff.	 2-ft Sump (15.5'-17.5' bgs) Hydrated Granular Bentonite (16.5'-19' bgs)
					4					
					3		1.8			
		8	17-19	1.8	3	7	1.6			
					4		1.6			
					5					
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/20/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934396.232 Easting: 1385707.77 Borehole Depth: 19' bgs Surface Elevation: 687.05' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-11 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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	690									
									Gravel - Site Cover.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
	685	1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-3.5' bgs)
5										Hydrated Granular Bentonite (3.5'-5.5' bgs)
		2	5-7	1.3	1 1 1 1	2	4.2 7.3 8.8		Very dark brown SILT; little very fine Sand; trace Organics; trace Clay; moist, soft, very slight odor.	
	680									4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
		3	7-9	1.3	WOH WOH WOH 15	2	172.7 176.8		Very dark brown SILT; little very fine Sand; trace Organics; trace Clay; trace Creosote-like material; moist, soft, trace to little black discoloration, moderate MGP-like odor.	
10									Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; little Silt; moist, loose, slight odor.	
		4	9-11	1.0	8 5 5 2	10	347.1		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; little Silt; wet, loose, trace brown OLM on water, moderate petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-14.5' bgs)
	675									#0 Sand Pack (6.5'-15.5' bgs)
		5	11-13	0.7	8 8 8 9	16	8.9		Brown grading to grey SILT; trace very fine Sand; trace Clay; moist, medium stiff, slight petroleum-like odor.	
		6	13-15	0.9	8 4 5 4	9	1.8 2.7		Grey SILT and very fine SAND; wet, medium stiff, rapid dilatancy.	
15										
		7	15-17	NR	5 6	11	NA		No Recovery.	2-ft Sump (14.5'-16.5' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: **AW-11**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	NR	5 8	11	NA		No Recovery.	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/17/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934395.75 Easting: 1385722.20 Borehole Depth: 19' bgs Surface Elevation: 687.57' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-12 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.0	WOH WOH WOH	2	0.8 0.7		very dark brownish grey SILT; little very fine Sand; little Organics; moist, soft	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	1.9	WOH WOH	11	2.9 11.1 78.2		Dark olive grey SILT; trace Clay; trace Organics; moist, soft, medium plasticity, slight petroleum-like odor, trace black discoloration.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	0.9	10 10 11 8	21	20.7		Reddish brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, slight petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
675		5	11-13	0.7	11 7 7 5	14	17.6 9.1		Reddish brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; wet, loose, trace to little brown and black OLM blebs on water in pore space, slight petroleum-like odor. 1-inch DNAPL globule at 11.2 to 11.3 feet bgs.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-15.5' bgs)
15		6	13-15	1.2	6 6 3 5	9	8.1 7.9 8.9		Reddish brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; little Silt; wet, loose, little green and black discoloration, trace to little brown and black OLM blebs on water in pore space, slight petroleum-like odor	#0 Sand Pack (7.5'-16.5' bgs)
									Olive brown SILT and very fine SAND; trace Clay; wet, medium stiff, slow dilatancy.	
		7	15-17	1.7	3 2	3	7.0		Grey SILT; little very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy from 15.6 to 16.2 and slow dilatancy from 16.4 to 16.5 feet bgs.	2-ft Sump (15.5'-17.5' bgs)

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



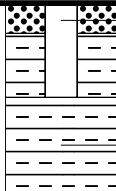
Client: NYSEG

Well/Boring ID: **AW-12**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.7	1 3	3	11.1		Grey SILT; little very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy from 15.6 to 16.2 and slow dilatancy from 16.4 to 16.5 feet bgs.	 2-ft Sump (15.5'-17.5' bgs) Hydrated Granular Bentonite (15.5'-19' bgs)
		8	17-19	1.2	1 2 1 3	3	3.5 2.1			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/16/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934394.66 Easting: 1385737.83 Borehole Depth: 19' bgs Surface Elevation: 687.47' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-13 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	NR	1 1 1 1	2	NA		No Recovery.	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	0.4	1 2 5	3	27.1		Dark olive grey fine to coarse SAND; some fine to coarse Gravel, angular; little Silt; trace Clay; moist, loose.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	0.7	9 7 10 8	17	10.9		Brown grading to olive brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; trace Silt; moist to wet, loose, slight odor.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
675		5	11-13	0.7	5 5 6	10	233.1 192.8		Grey fractured COBBLES, angular; some fine to coarse Sand; trace Silt; wet, loose, trace blebs of black OLM on water in pore space, moderate petroleum-like odor	4" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-16.5' bgs)
15		6	13-15	0.4	6 8 7 5	15	29.7		Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; wet, loose, trace blebs of brown OLM on water in pore space, moderate petroleum-like odor.	#0 Sand Pack (7.5'-17.5' bgs)
		7	15-17	1.3	1 2	5	63.7		Olive brown to olive grey SILT; little Clay, moist, medium stiff.	
									Grey SILT; some very fine Sand, trace Clay; wet, rapid dilatancy, slight	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



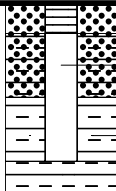
Client: NYSEG

Well/Boring ID: **AW-13**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.3	3 4	5	62.9		Grey SILT; some very fine Sand, trace Clay; wet, rapid dilatancy, slight petroleum-like odor.	 2-ft Sump (16.5'-18.5' bgs) Hydrated Granular Bentonite (15.5'-19' bgs)
670		8	17-19	1.0	2 2 3 4	5	37.2 66.9		Grey SILT; little very fine Sand, trace Clay; wet and moist, interbedded seams of no and rapid dilatancy, slight petroleum-like odor.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/16/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934401.88 Easting: 1385752.82 Borehole Depth: 19' bgs Surface Elevation: 687.99' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-14 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.4	1 1 1 1	6	NA		Brown fine to medium SAND; little Silt; trace fine to coarse Gravel, angular; moist, loose.	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	1.6	WOH 1 2 5	4	NA		Brown SILT; little very fine Sand; trace Clay; moist, medium stiff.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	1.4	9 7 10 8	17	NA		Olive and rusty brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
675		5	11-13	0.3	5 5 5 6	16	NA		Olive and rusty brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; wet, loose, trace brown OLM on water in pore space, moderate petroleum-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-16.5' bgs)
15		6	13-15	NR	6 8 7 5	16	NA		No Recovery.	#0 Sand Pack (7.5'-17.5' bgs)
		7	15-17	0.7	1 2	7	NA		Grey SILT; trace very fine Sand; trace Clay; wet and moist, medium stiff, slight petroleum-like odor.	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



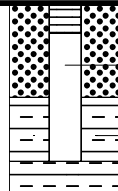
Client: NYSEG

Well/Boring ID: **AW-14**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	0.7	3 4	7	NA		Grey SILT; trace very fine Sand; trace Clay; wet and moist, medium stiff, rapid dilatancy at 17 to 17.5 and 17.8 to 18.8 feet bgs, slight petroleum-like odor.	 2-ft Sump (16.5'-18.5' bgs) Hydrated Granular Bentonite (17.5'-19' bgs)
670		8	17-19	1.4	2 2 3 4	12	NA			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/15/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934401.19 Easting: 1385768.02 Borehole Depth: 19' bgs Surface Elevation: 688.09' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-15 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685										Bentonite Cement Grout (1'-5' bgs)
5		2	5-7	NR	WOH 1 2 2	3	NA		No Recovery. Brick stuck in sample shoe.	Hydrated Granular Bentonite (5'-7' bgs)
		3	7-9	1.9	WOH 3 3 4	6	NA		Olive brown SILT and very fine SAND; trace Clay; root traces from 7.3 to 7.9 feet bgs; moist, medium stiff.	4" Dia. SCH40 PVC Riser (0'-9' bgs)
680									Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist to wet, loose.	
10		4	9-11	0.9	7 10 11 11	21	NA		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, very loose, some blebs of brown and black OLM on water in pore space, moderate MGP-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9'-15' bgs)
		5	11-13	0.5	7 9 9	16	NA		Brown to olive grey SILT and very fine SAND; wet, rapid dilatancy, medium stiff.	#0 Sand Pack (7'-16' bgs)
675									Grey SILT; trace very fine Sand; trace Clay; wet and moist, stiff, slight MGP-like odor.	
15		6	13-15	0.9	4 6 6 5	12	NA		Grey SILT; trace very fine Sand; trace Clay; wet and moist, stiff, slow dilatancy at 15.1 to 15.2 and 15.5 to 15.6 feet bgs, slight MGP-like odor, trace sheen on water in pore space.	2-ft Sump (15'-17' bgs)
		7	15-17	1.2	3 3	6	NA			

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



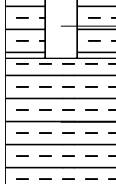
Client: NYSEG

Well/Boring ID: **AW-15**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.2	3 2	6	NA		Grey SILT; trace very fine Sand; trace Clay; wet and moist, stiff, rapid dilatancy at 17.1 to 17.3 and slow dilatancy at 17.6 to 17.9 feet bgs, slight MGP-like odor, trace sheen on water in pore space.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
670		8	17-19	0.9	2 2 3 6	5	NA			
20									End of Boring. Boring terminated at 19' bgs.	
	665									
25										
	660									
30										
	655									
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/15/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934400.61 Easting: 1385781.91 Borehole Depth: 19' bgs Surface Elevation: 688.24' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-16 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-4.5' bgs)
5		2	5-7	NR	3 3 2 1	5	NA		No Recovery.	Hydrated Granular Bentonite (4.5'-6.5' bgs)
									Olive brown SILT and very fine SAND; trace Organics; moist, stiff.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
680		3	7-9	1.6	3 3 4	6	0.5 0.3 0.4			
10		4	9-11	0.6	9 10 14 14	24	0.5		Brown coarse GRAVEL, angular to subangular; some fine to coarse Sand; trace Silt; moist, loose.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-14.5' bgs)
		5	11-13	0.9	5 5 4 6	9	17.2 24.9		Discolored black fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; trace Silt; moist and wet, little black creosote-like material material, trace brown OLM on water in pore space, moderate MGP-like odor.	#0 Sand Pack (6.5'-15.5' bgs)
675		6	13-15	0.9	10 9 5 5	14	14.5 29.7		Olive brown to grey SILT; little very fine Sand; trace Clay; moist and wet, moderate petroleum-like odor.	
15		7	15-17	1.2	10 9	16	4.2		Grey SILT; trace very fine Sand; trace Clay; moist and wet, soft, rapid dilatancy at 15.5 to 16.2 feet bgs.	2-ft Sump (14.5'-16.5' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

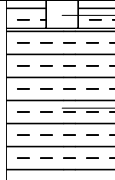
Client: NYSEG

Well/Boring ID: **AW-16**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.2	7	16	5.2		Grey SILT; trace very fine Sand; trace Clay; moist and wet, soft, rapid dilatancy at 17 to 17.5 feet bgs.	 2-ft Sump (14.5'-16.5' bgs) Hydrated Granular Bentonite (15.5'-19' bgs)
					5					
					4					
670		8	17-19	0.8	3	5	1.3			
					2		2.1			
					2					
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										



Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/14/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934400.40 Easting: 1385796.98 Borehole Depth: 19' bgs Surface Elevation: 688.23' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-17 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-4.5' bgs)
5					5		0.0			Hydrated Granular Bentonite (4.5'-6.5' bgs)
		2	5-7	1.2	3	5	0.2		Dark olive grey SILT; trace Clay; trace Organics; moist, medium stiff, trace black discoloration, very slight odor.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
					2		0.0			
					1					
680		3	7-9	1.2	1	5	1.6		Brown very fine SAND; little fine to coarse Gravel, subangular to subround; little Silt; moist, medium dense.	
					2		0.7			
					3					
					4					
10		4	9-11	0.9	10	21	0.4		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; moist, loose.	
					10		0.2			4" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-14.5' bgs)
					11					
					22					
		5	11-13	1.1	14	21	149.2		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; wet, loose, trace blebs of brown OLM on water in pore space, moderate MGP-like odor.	#0 Sand Pack (6.5'-15.5' bgs)
					10		26.4			
					11		21.7			
675					7				Grey SILT; trace very fine Sand; trace Clay; moist and wet, medium stiff.	
		6	13-15	1.3	3	11	3.0			
					6		5.5			
					5		7.1		Grey SILT; trace to little Clay; trace very fine Sand; moist, soft, slight petroleum-like odor.	
15					4					
		7	15-17	1.0	4	11	4.5			2-ft Sump (14.5'-16.5' bgs)
					5					

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material. Location hand cleared 0-5' bgs.

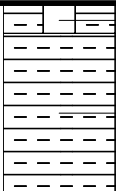
Client: NYSEG

Well/Boring ID: **AW-17**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.0	6 8	11	1.2		Grey SILT; little very fine Sand; trace Clay; wet and moist, medium stiff, rapid dilatancy at 16 to 17 and 17.5 to 17.6 feet bgs.	 2-ft Sump (14.5'-16.5' bgs) Hydrated Granular Bentonite (15.5'-19' bgs)
		8	17-19	1.2	4 4 4 4	8	6.0 7.9			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/14/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934399.87 Easting: 1385812.29 Borehole Depth: 19' bgs Surface Elevation: 688.30' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-18 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	NR	1 3 4 2	7	NA		No Recovery.	Bentonite Cement Grout (1'-5' bgs)
680		3	7-9	1.4	1 1 2 7	3	15.3 13.5		Dark olive grey to olive brown SILT; little to some very fine Sand; trace fine Gravel, Black discolored very fine to coarse SAND; little fine to coarse Gravel, angular to subangular; little Silt; moist, loose, moderate petroleum-like odor.	Hydrated Granular Bentonite (5'-7' bgs)
10		4	9-11	0.7	10 14 12 11	26	1.0		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular, moist, loose.	4" Dia. SCH40 PVC Riser (0'-9' bgs)
		5	11-13	1.0	15 10 10 7	20	8.9 141.7		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subangular, moist to wet, loose; Black DNAPL present in pore space at 12.5 to 12.8 feet bgs, moderate MGP-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9'-15' bgs)
675		6	13-15	0.9	5 5 5	10	57.1 85.6		Grey SILT; some very fine Sand; trace Clay; wet and moist, medium stiff, moderate MGP-like odor.	#0 Sand Pack (7'-16' bgs)
15		7	15-17	1.1	6 6	12	12.0			2-ft Sump (15'-17' bgs)

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



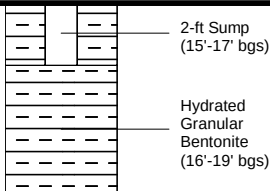
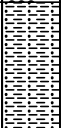
Client: NYSEG

Well/Boring ID: **AW-18**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.1	6	12	10.1		Grey SILT; some very fine Sand; trace Clay; wet and moist, medium stiff, moderate petroleum-like odor.	
670		8	17-19	1.4	1 2 2 3	4	41.2 40.8 48.5		Grey SILT; little Clay; moist, medium stiff, low plasticity, slight petroleum-like odor.	
									End of Boring. Boring terminated at 19' bgs.	
20										
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/14/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934399.57 Easting: 1385827.09 Borehole Depth: 19' bgs Surface Elevation: 688.34' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-19 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685										Bentonite Cement Grout (1'-5.5' bgs)
5		2	5-7	0.6	2 1 1 1	2	1.9		Dark brown, discolored to dark olive grey SILT; trace very fine Sand; trace Organics; moist, soft, slight petroleum-like odor.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
		3	7-9	0.4	2 4 4 10	8	1.6		Brown very fine to fine SAND; some Silt; trace Coarse Gravel, angular; moist, medium dense.	4" Dia. SCH40 PVC Riser (0'-9.5' bgs)
680										
		4	9-11	1.1	4 6 12 14	18	12.0 12.9		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist to wet, loose, moderate petroleum-like odor, black discoloration at 9 to 9.6 feet bgs, trace blebs of OLM at 11.3 to 11.7 feet bgs	4" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-15.5' bgs)
10		5	11-13	0.9	12 11 7	23	183.4 101.7			#0 Sand Pack (7.5'-16.5' bgs)
675		6	13-15	1.0	5 6 5 5	11	73.8 55.9		Grey SILT; some very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy at 13.3 to 13.6, 15.2 to 15.3 and 15.9 to 16.1 feet bgs, moderate petroleum-like odor.	
15		7	15-17	1.5	2 3	6	39.7			2-ft Sump (15.5'-17.5' bgs)

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



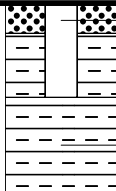
Client: NYSEG

Well/Boring ID: **AW-19**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.5	3 3	6	93.4		Grey SILT; some very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy at 15.9 to 16.1 and 17 to 17.8 feet bgs, moderate petroleum-like odor.	 2-ft Sump (15.5'-17.5' bgs) Hydrated Granular Bentonite (15.5'-19' bgs)
	670	8	17-19	1.5	2 2 2 3	4	46.7 51.9 37.1			
20									End of Boring. Boring terminated at 19' bgs.	
	665									
25										
	660									
30										
	655									
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/13/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934397.62 Easting: 1385855.67 Borehole Depth: 21' bgs Surface Elevation: 688.03' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-21 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.9	3 2 2 2	4	0.8 1.6		Dark olive grey SILT; trace very fine Sand; trace Clay; trace Brick fragments; moist, medium stiff, slight petroleum-like odor.	Bentonite Cement Grout (1'-4' bgs)
680		3	7-9	0.8	3 2 3 10	5	11.5 17.6		Dark olive grey fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; moist, loose.	Hydrated Granular Bentonite (4'-6' bgs)
10		4	9-11	0.9	12 12 7 9	19	17.8 145.2		Dark olive grey fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; moist to wet, medium stiff, slight petroleum-like odor, trace OLM on water in pore space at 10 to 10.3 feet bgs.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
		5	11-13	1.0	11 28 14 7	42	350.1 354.2 272.9		Dark olive grey fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; wet, medium stiff, strong petroleum-like odor, some brown OLM on water in pore space.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
675		6	13-15	1.5	6 7 5 6	12	101.7 92.5 118.9		Brown very fine SAND and SILT; wet, medium stiff, strong petroleum-like odor.	#0 Sand Pack (6'-16' bgs)
15		7	15-17	1.2	4 5	10	11.7		Grey SILT and very fine SAND; trace Clay; wet, medium stiff, slow dilatancy at 15 to 15.2 feet bgs, very slight petroleum-like odor.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

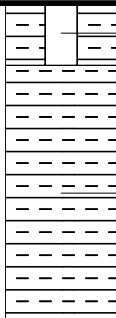
Client: NYSEG

Well/Boring ID: **AW-21**

Site Location:

Borehole Depth: 21' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	670	7	15-17	1.2	5 5	10	18.6		Grey SILT and very fine SAND; trace Clay; wet, medium stiff, very slight petroleum-like odor.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-21' bgs)
		8	17-19	1.6	1 2 3 4	5	21.4 20.8 10.8			
		9	19-21	1.6	2 3 3 3	6	3.8 11.0 2.4			
25	665								End of Boring. Boring terminated at 21' bgs.	
30	660									
35	655									

Remarks:

bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/10/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934396.69 Easting: 1385871.70 Borehole Depth: 21' bgs Surface Elevation: 687.61' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-22 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.8	4 4 5 8	9	0.1 0.2		Dark olive brown very fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; moist, loose.	Bentonite Cement Grout (1'-5' bgs)
680		3	7-9	0.8	4 8 9	12	5.9 19.4		Dark olive grey SILT and very fine Sand; trace fine Gravel, angular; trace Clay; moist, medium stiff, some black discoloration, slight MGP-like odor.	Hydrated Granular Bentonite (5'-7' bgs)
10		4	9-11	0.6	7 9 11 15	20	71.8		Dark olive grey very fine to medium SAND; some fine to coarse Gravel, angular to rounded; little Silt; moist, loose, little black discoloration, little petroleum-like odor.	4" Dia. SCH40 PVC Riser (0'-9' bgs)
675		5	11-13	1.0	7 8 14 16	22	44.2 91.9		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, moderate MGP-like odor, little sheen on water in pore space, trace OLM on water in pore space at 11.7 to 11.8 feet bgs.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9'-18' bgs)
15		6	13-15	NR	4 8 9 12	17	NA		No Recovery. Rock stuck in sample shoe.	#0 Sand Pack (7'-19' bgs)
		7	15-17	1.4	5 6	11	11.9		Reddish brown very fine SAND and SILT; wet, dense.	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



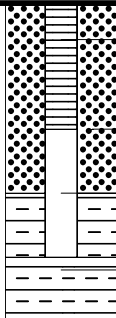
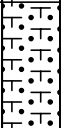
Client: NYSEG

Well/Boring ID: **AW-22**

Site Location:

Borehole Depth: 21' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	670	7	15-17	1.4	5 7	11	7.5		Grey very fine SAND and SILT; trace Clay; wet, dense, rapid dilatancy at 16.5 to 16.8 feet bgs.	 4" Dia., 0.020" slot SCH40 PVC Well Screen (9'-18' bgs) #0 Sand Pack (7'-19' bgs) 2-ft Sump (18'-20' bgs) Hydrated Granular Bentonite (19'-21' bgs)
		8	17-19	1.6	3 3 4 3	7	8.0 12.0 8.8		Grey very fine SAND and SILT; trace Clay; wet, dense, trace black discoloration in thin Clay seems, very slight MGP-like odor.	
		9	19-21	1.7	1 1 2 1	3	3.8 3.1 3.4		Grey SILT; some very fine Sand; trace Clay; moist, medium stiff.	
									End of Boring. Boring terminated at 21' bgs.	

Remarks:

bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/10/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934396.47 Easting: 1385887.25 Borehole Depth: 19' bgs Surface Elevation: 687.48' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-23 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-4' bgs)
5									Dark olive grey fractured COBBLES; wet, loose.	Hydrated Granular Bentonite (4'-6' bgs)
		2	5-7	0.7	1 24 20 7	44	0.0 0.0		Dark grey SILT; little very fine to fine Sand; trace Clay; wet to moist, soft.	4" Dia. SCH40 PVC Riser (0'-8' bgs)
680		3	7-9	0.7	1 7 13 6	20	456.1 79.8		Dark olive grey very fine to coarse SAND; some fine to coarse Gravel, angular to subangular; trace Silt; moist, loose, black discoloration, strong creosote-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
10		4	9-11	1.1	12 24 17 16	41	447.2 457.1			#0 Sand Pack (6'-16' bgs)
		5	11-13	0.6	12 6 7 9	13	87.0 66.1		Dark olive grey very fine to coarse SAND; some fine to coarse Gravel, angular to subangular; trace Silt; wet, loose, black discoloration, strong petroleum-like odor, some sheen on water surface, trace blebs of brown OLM.	
675		6	13-15	0.7	5 6 12 7	18	328.7		Brown grading to grey SILT and very fine SAND; wet to moist, soft, strong petroleum-like odor, some sheen on water surface.	
15		7	15-17	1.0	5 4	9	280.1		Grey SILT; little very fine Sand; trace Clay; moist and wet, medium stiff, moderate petroleum-like odor.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: **AW-23**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

[illegible]

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/9/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northings: 934396.62 Easting: 1385901.88 Borehole Depth: 19' bgs Surface Elevation: 687.34' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-24 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	1.4	1 WOH WOH 2	2	0.0 0.0		Dark olive grey SILT; trace Clay; trace shell fragments and Organics; moist, soft; Grease-like material at 5.6 to 5.9 feet bgs, strong petroleum-like odor.	Bentonite Cement Grout (1'-4' bgs)
680		3	7-9	1.3	13 18 18 19	36	456.1 79.8		Brown and olive brown fine to coarse SAND; some fine to coarse Gravel, angular to subangular; trace Silt; moist (wet starting at 10.5 feet bgs), loose, little black discoloration, moderate petroleum-like odor. Sheen and trace OLM on water in pore space.	Hydrated Granular Bentonite (4'-6' bgs)
10		4	9-11	0.9	5 12 18 43	30	447.2 457.1			4" Dia. SCH40 PVC Riser (0'-8' bgs)
675		5	11-13	NR	50/6" 100/6"	>50	87.0 66.1		No Recovery. Boulder or Concrete-like material at 12.5 feet bgs.	4" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
		6	13-15	0.7	36 30 9 12	39	328.7		Brownish grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, trace blebs of OLM on water in pore space, moderate petroleum-like odor.	#0 Sand Pack (6'-16' bgs)
15		7	15-17	1.2	7 5	8	280.1		Grey SILT; trace very fine Sand; trace Clay; moist, medium stiff; seam of very fine SAND at 15 to 15.2 feet bgs, wet, slow dilatancy.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

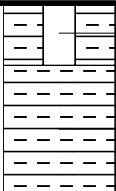
Client: NYSEG

Well/Boring ID: **AW-24**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.2	3 7	8	334.8		Grey SILT; trace very fine Sand; trace Clay; moist, medium stiff; seams of very fine SAND and SILT at 17.3 to 17.4 and 18.1 to 18.2 feet bgs, wet, rapid dilatancy.	
		8	17-19	1.5	3 3 2 6	5	348.1 451.2			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = no recovery; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/7/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934391.07 Easting: 1385916.94 Borehole Depth: 19' bgs Surface Elevation: 687.33' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-25 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0										8" Flush-mounted Well Box
									Asphalt.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0		FILL - Dark grey fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose. (perched water at 4.8 feet bgs)	Bentonite Cement Grout (1'-3' bgs)
5										Hydrated Granular Bentonite (3'-5' bgs)
		2	5-7	1.4	WOH WOH WOH 2	2	0.0 0.0 0.0		Dark grey and black SILT; some Organics; moist, soft. Dark olive brown SILT; trace to little Clay; trace shell fragments; moist, medium stiff.	4" Dia. SCH40 PVC Riser (0'-7' bgs)
680		3	7-9	1.3	2 6 10 10	16	0.0 0.0 0.0		Olive brown fine to coarse SAND; some fine to coarse Gravel, angular to subround; moist, loose.	
10		4	9-11	0.7	10 11 14 14	25	124.2 107.5		Olive brown fine to coarse SAND; some fine to coarse Gravel, angular to subround; moist to wet, loose, trace sheen on water in pore space, moderate MGP-like odor.	4" Dia., 0.020" slot SCH40 PVC Well Screen (7'-14' bgs)
		5	11-13	1.3	3 9 12 13	21	197.2 26.4 26.0		Grey SILT and very fine SAND; wet, medium stiff, slow dilatancy, slight odor.	#0 Sand Pack (5'-15' bgs)
675		6	13-15	1.2	6 9 14 14	23	96.1 40.0		Grey very fine SAND; little Silt; wet, medium dense, rapid dilatancy.	2-ft Sump (14'-16' bgs)
15		7	15-17	1.6	2 9	16	0.0		Grey SILT interbedded with very fine Sand and Clay seams; moist, stiff. Seams of very fine Sand are wet with slow dilatancy.	Hydrated Granular Bentonite (15'-19' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

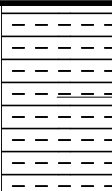
Client: NYSEG

Well/Boring ID: **AW-25**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.6	7 10	16	52.8		Grey SILT interbedded with very fine Sand and Clay seams; moist, stiff. Seams of very fine Sand are wet with slow dilatancy.	 Hydrated Granular Bentonite (15'-19' bgs)
		8	17-19	1.8	6 8 10 14	18	5.5 0.0 0.0		Grey SILT; trace very fine Sand; trace Clay; moist, medium stiff.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/7/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 10.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934390.31 Easting: 1385932.27 Borehole Depth: 19' bgs Surface Elevation: 687.29' AMSL Descriptions By: Ryan Clare	Well/Boring ID: AW-26 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Asphalt.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Dark grey SILT and fine to coarse SAND; some Fill (asphalt, brick, and concrete debris); moist, medium dense.	Concrete Pad (0'-1' bgs)
5		2	5-7	1.0	1 2 3 2	5	0.0 0.0 0.0 0.0		Dark grey SILT and CLAY; trace Fill material; moist, soft, low plasticity.	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	1.0	2 7 11 13	18	0.0 0.0 0.0 0.0		Olive grey fine to coarse SAND; trace fine to coarse Gravel, subangular to subround; trace Silt; moist, loose.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	1.3	9 10 12 12	22	0.0 0.0 0.0 0.0		Olive brown fine to coarse SAND and fine to coarse Gravel, angular to subround; trace Silt; wet, loose.	4" Dia. SCH40 PVC Riser (0'-8.5' bgs)
675		5	11-13	1.0	12 9 8	21	0.0 12.7 12.7		Olive brown very fine SAND; some Silt; wet, medium dense. Trace Clay at 11.8 to 12 feet bgs.	4" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-16.5' bgs)
15		6	13-15	1.5	3 8 13 13	21	0.6 18.4 1.8 1.8		Brown very fine SAND and SILT; wet, dense.	#0 Sand Pack (7.5'-17.5' bgs)
		7	15-17	1.1	3 9	17	0.0 0.0		Grey SILT; little very fine Sand; trace Clay; moist, medium stiff.	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



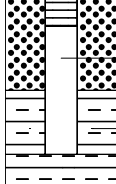
Client: NYSEG

Well/Boring ID: **AW-26**

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.1	8 11	17	0.0		Grey SILT; little very fine Sand; trace Clay; moist, medium stiff.	
		8	17-19	1.7	3 5 7 13	12	0.0 0.0 0.0 0.0		Grey SILT; trace very fine Sand; trace Clay; moist, stiff to very stiff.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/24/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934414.63 Easting: 1385573.56 Borehole Depth: 21' bgs Surface Elevation: 686.41' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-01 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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										8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt. FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	1.1	6 8 9 9	17	1.4 3.4		Brown fine to coarse SAND and fine to coarse GRAVEL, angular to subround; moist, loose.	Bentonite Cement Grout (1'-5' bgs)
680		3	7-9	0.9	6 8 10 12	18	0.1 0.0			Hydrated Granular Bentonite (5'-7' bgs)
10		4	9-11	0.4	8 30 27 14	57	0.0			2" Dia. SCH40 PVC Riser (0'-9' bgs)
675		5	11-13	0.7	5 4 5 6	9	146.7		Dark grey fine to coarse GRAVEL, angular to subangular and fine to coarse SAND; trace Silt; wet, loose, slight petroleum-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-18' bgs)
15		6	13-15	0.6	4 10 7 7	17	352.1		Olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; wet, loose, trace blebs of black OLM in pore space, strong petroleum-like odor.	#0 Sand Pack (7'-19' bgs)
		7	15-17	0.5	3 3	7	40.5			

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material. Location hand cleared 0-5' bgs.

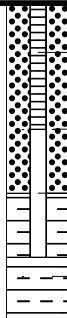
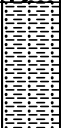
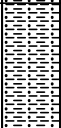
Client: NYSEG

Well/Boring ID: PMW-01

Site Location:

Borehole Depth: 21' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	0.5	4 2	7	40.5		subground; wet, loose, trace blebs of black OLM in pore space, strong petroleum-like odor.	 2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-18' bgs) #0 Sand Pack (7'-19' bgs) 2-ft Sump (18'-20' bgs) Hydrated Granular Bentonite (19'-21' bgs)
		8	17-19	1.0	2 3 3 4	6	35.2 39.7		Grey SILT; some Clay; moist and wet, medium stiff, medium plasticity, moderate petroleum-like odor. Trace very fine Sand at 17 to 19 feet bgs	
20		9	19-21	1.1	2 3 3 4	6	70.1 71.2		Grey SILT and CLAY; moist, soft, medium plasticity, slight petroleum-like odor.	
665									End of Boring. Boring terminated at 21' bgs.	
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/27/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934394.98 Easting: 1385572.92 Borehole Depth: 21' bgs Surface Elevation: 686.20' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-02 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

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									Asphalt.	8" Flush-mounted Well Box
	685	1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5										Bentonite Cement Grout (1'-4.5' bgs)
	680	2	5-7	0.9	1 2 1	2	0.0 0.0		Very dark brown SILT; little Organics; trace Shell fragments; moist, soft, slight odor.	Hydrated Granular Bentonite (4.5'-6.5' bgs)
		3	7-9	0.6	12 12 12 13	24	0.0		Reddish brown very fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose.	2" Dia. SCH40 PVC Riser (0'-8.5' bgs)
10		4	9-11	0.9	10 8 8 12	16	1.5 39.2		Olive grey very fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; moist, loose, moderate petroleum-like odor. Wet starting at 11 feet bgs; trace brown OLM blebs on water in pore space.	2" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-17.5' bgs)
	675	5	11-13	0.9	10 12 8 14	20	72.7			#0 Sand Pack (6.5'-18.5' bgs)
		6	13-15	0.6	12 4 4 6	8	70.8 40.2			
15		7	15-17	0.4	8 4	8	27.1		Grey SILT; little Clay; trace very fine to fine Sand; soft, wet.	

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: **PMW-02**

Site Location:

Borehole Depth: 21' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

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Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/16/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934403.93 Easting: 1385737.08 Borehole Depth: 19' bgs Surface Elevation: 687.80' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-03 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Asphalt.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.3	WOH 1 1 1	2	7.2		Brown fine to coarse SAND and fine to medium GRAVEL, angular to subangular; little Silt; moist, loose.	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	1.0	4 8 9 9	17	19.0 52.1		Brown very fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; little Silt; moist, loose, very slight odor.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	NR	17 17 16 12	33	NA		No Recovery. Rock stuck in sample shoe.	2" Dia. SCH40 PVC Riser (0'-9.5' bgs)
675		5	11-13	0.2	8 18 18 17	36	389.1		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; trace Silt; wet, loose, trace sheen and blebs of OLM on water in pore space, strong petroleum-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-16.5' bgs)
15		6	13-15	0.6	2 3 13 10	16	42.8 25.7		Dark olive grey fine to coarse SAND and fine to coarse GRAVEL, angular to subangular; trace Silt; wet, loose, some black discoloration, trace sheen and blebs of OLM on water in pore space. Black OLM (DNAPL) coating gravel at 14.7 to 15 feet bgs.	#0 Sand Pack (7.5'-17.5' bgs)
		7	15-17	1.3	4 4	7	12.4		Grey SILT; little very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy at 15 to 15.6 feet bgs.	

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

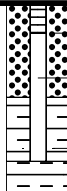
Client: NYSEG

Well/Boring ID: PMW-03

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.3	3 4	7	19.8		Grey SILT; little very fine Sand; trace Clay; wet, medium stiff, rapid dilatancy at 16 to 16.3 and 17.7 to 17.9 feet bgs.	 #0 Sand Pack (7.5'-17.5' bgs) 2-ft Sump (16.5'-18.5' bgs) - Hydrated Granular Bentonite (17.5'-19' bgs)
670		8	17-19	0.9	6 3 3 4	6	40.3 36.7			
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/17/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934385.40 Easting: 1385736.99 Borehole Depth: 19' bgs Surface Elevation: 687.76' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-04 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	NR	WOH WOH WOH 1	2	NA		No Recovery.	Bentonite Cement Grout (1'-5.5' bgs)
680		3	7-9	1.5	WOH 1 1 2	2	13.3 18.1		Reddish brown grading to olive brown SILT; trace very fine Sand; trace Clay; moist, soft, black root traces at 7 to 7.8 feet bgs.	Hydrated Granular Bentonite (5.5'-7.5' bgs)
10		4	9-11	1.3	15 10 10 9	20	118.4 134.7		Brown and olive brown fine to coarse SAND and fine to coarse GRAVEL, angular to sub angular; trace Silt; moist, loose, slight petroleum-like odor. Wet starting at 10.5 feet bgs.	2" Dia. SCH40 PVC Riser (0'-9.5' bgs)
675		5	11-13	1.0	6 9 13 11	22	222.1 139.4		Brownish grey fine to coarse SAND and fine to coarse GRAVEL, angular to subround; trace Silt; wet, loose, slight petroleum-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (9.5'-16.5' bgs)
15		6	13-15	0.7	10 10 12 11	22	27.4 11.0			#0 Sand Pack (7.5'-17.5' bgs)
		7	15-17	1.2	5 3	7	19.4		Olive brown grading to grey SILT; some very fine Sand; trace Clay; wet, medium stiff.	

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

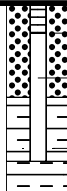
Client: NYSEG

Well/Boring ID: PMW-04

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.2	4	7	25.2		Grey SILT; some very fine Sand; trace Clay; wet, medium stiff. No odor starting at 17 feet bgs.	 #0 Sand Pack (7.5'-17.5' bgs) 2-ft Sump (16.5'-18.5' bgs) Hydrated Granular Bentonite (17.5'-19' bgs)
670		8	17-19	1.6	5	4	11.7		Grey very fine SAND; little Silt; wet, medium dense, rapid dilatancy.	
					2		11.4		Grey SILT; little Clay; trace very fine Sand; wet and moist, soft.	
					2		7.9			
					2					
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 7/8/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 4-foot Macrocore	Northing: 934400.44 Easting: 1385916.23 Borehole Depth: 19' bgs Surface Elevation: 687.48' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-05 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Gravel - Site Cover.	8" Flush-mounted Well Box
									FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, slag, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0			Bentonite Cement Grout (1'-4' bgs)
5									Dark reddish brown fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; moist, loose.	Hydrated Granular Bentonite (4'-6' bgs)
		2	5-9	1.2	NA	NA	0.0			2" Dia. SCH40 PVC Riser (0'-8' bgs)
680							0.0		No Recovery.	
10		3	9-13	NR	NA	NA	NA			2" Dia., 0.020" slot SCH40 PVC Well Screen (8'-15' bgs)
									Interval not sampled due to technical issues. Auger advanced to 15 feet bgs to resume sample collection.	#0 Sand Pack (6'-16' bgs)
675		NA	13-15	NR	NA	NA	NA			
15		4	15-19	2.6	NA	NA	0.0		Grey SILT interbedded with very fine Sand and Clay seems; moist, medium stiff. Seems of very fine Sand are wet.	2-ft Sump (15'-17' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

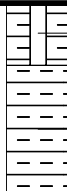
Client: NYSEG

Well/Boring ID: PMW-05

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		4	15-19	2.6	NA	NA	0.0 0.0 0.0		Grey SILT interbedded with very fine Sand and Clay seems; moist, medium stiff. Seams of very fine Sand are wet.	 2-ft Sump (15'-17' bgs) Hydrated Granular Bentonite (16'-19' bgs)
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										



Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.

Date Start/Finish: 7/9/2020 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Steve Loranty Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934381.79 Easting: 1385916.90 Borehole Depth: 19' bgs Surface Elevation: 687.27' AMSL Descriptions By: Ryan Clare	Well/Boring ID: PMW-06 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
690										
0									Asphalt.	8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		FILL - Brown fine to coarse SAND; some Fill (asphalt, brick, and wood debris); trace silt; moist, loose.	Concrete Pad (0'-1' bgs)
5		2	5-7	0.6	WOH 1 2 1	3	386.2		Black SILT; little very fine Sand; moist, soft.	Bentonite Cement Grout (1'-4.5' bgs)
680		3	7-9	1.5	17 17 17 17	34	361.2 386.4 472.1		Black FILL (Slag and building debris); wet, loose, moderate MGP-like odor, sheen on surface of water in pore space. (percehd water)	Hydrated Granular Bentonite (4.5'-6.5' bgs)
10		4	9-11	1.0	5 10 13 9	23	395.1 372.4		Dark olive grey fine to coarse SAND; some fine to coarse Gravel, angular to subangular; moist, loose, moderate petroleum-like odor.	2" Dia. SCH40 PVC Riser (0'-8.5' bgs)
675		5	11-13	1.7	6 10 14 20	24	280.4 172.5 130.0		Brown very fine SAND; little Silt; wet, soft, moderate petroleum-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (8.5'-15.5' bgs)
		6	13-15	NR	10 12 15 14	27	NA		Olive grey SILT; trace very fine SAND; trace Clay; moist, medium stiff.	#0 Sand Pack (6.5'-16.5' bgs)
15		7	15-17	1.0	4 11	23	98.1		Olive grey very fine SAND and SILT; wet, medium dense, rapid dilatancy, moderate petroleum-like odor.	
									No Recovery.	
									Grey SILT; little Clay; trace very fine Sand; moist, soft, slight petroleum-like odor.	2-ft Sump (15.5'-17.5' bgs)

	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material. Location hand cleared 0-5' bgs.

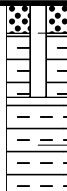
Client: NYSEG

Well/Boring ID: PMW-06

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.0	12 14	23	46.2		Grey SILT; little Clay; trace very fine Sand; moist, soft, slight petroleum-like odor.	 2-ft Sump (15.5'-17.5' bgs) Hydrated Granular Bentonite (16.5'-19' bgs)
		8	17-19	1.7	12 10 13 15	23	23.7 32.4 17.7		Grey SILT interbedded with very fine Sand and Clay seems; moist, medium stiff. Seems of very fine Sand are wet.	
20									End of Boring. Boring terminated at 19' bgs.	
665										
25										
660										
30										
655										
35										

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; WOH = weight of hammer; NR = no recovery; OLM = oil-like material.

Location hand cleared 0-5' bgs.



Date Start/Finish: 10/8/2018 - 10/9/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Kevin Busch Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934409.66 Easting: 1385606.67 Casing Elevation: 686.22' AMSL Borehole Depth: 21' bgs Surface Elevation: 686.56' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1801 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0											8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	NA			Asphalt.	Concrete Pad (0'-1' bgs)
										Brown and reddish brown very fine to medium SAND; little fine to coarse Gravel, subangular to subround; little Silt; trace Coal fragments; moist, loose.	
										Concrete slab.	
										Brown and reddish brown very fine SAND; little silt; trace Clay; moist, loose.	
5		2	5-7	1.2	2	8	0.0			Light brown and brown very fine SAND; trace Silt, moist, medium dense.	Bentonite Cement Grout (1'-7' bgs)
					3						
680					5		0.0			Olive brown very fine SAND and fine to coarse GRAVEL, angular; fractured Cobbles; moist, loose.	2" Dia. SCH40 PVC Riser (0'-9' bgs)
					8						
		3	7-9	1.2	7	20	0.0			Dark olive brown very fine to medium SAND and fine to coarse GRAVEL, angular to subangular; trace fractured Cobbles; trace Silt; moist, loose.	Hydrated Bentonite Chips (7'-8' bgs)
					8						
					12		0.0				
					14						
10		4	9-11	0.6	5	13	25.1			Brown very fine to fine SAND; little fine to coarse Gravel, angular; trace Silt; moist, loose, slight MGP-like odor.	
					6					Black and dark olive brown discolored very fine to fine SAND; little fine to coarse Gravel, angular; trace Silt; moist, loose, strong MGP-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-19' bgs)
					7						
675		5	11-13	1.2	11	20	1.9			Olive brown and white very fine SAND and fine to coarse GRAVEL, angular; little fractured Cobbles; little Silt; very wet, very loose, slight to moderate MGP-like odor. Bluish green and black discoloration at 12' to 12.2' bgs.	
					10		6.7				
					10						
					13						
		6	13-15	1.2	7	8	22.5			Greenish brown fine to coarse GRAVEL, subround; some fine to coarse Sand; wet, loose, moderate MGP-like odor.	
					4		7.2			Olive grey SILT and very fine SAND interbedded with 1-3 mm thick dark grey Clay lenses; wet, soft.	#0 Sand Pack (8'-19' bgs)
					4		7.9				
15					4						
					2		12.0			Olive grey SILT and very fine SAND interbedded with olive grey Clay lenses; very fine Sand, wet, medium dense, rapid dilatancy at 15.3' to 15.4' and 16.2' to 16.3' bgs, slight to moderate MGP-like odor.	
					5						

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: MW-1801

Site Location:

Borehole Depth: 21' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
670 											

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery.

Location hand cleared 0-5' bgs.



Date Start/Finish: 12/3/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934409.21 Easting: 1385771.50 Casing Elevation: 686.22' AMSL Borehole Depth: 25' bgs Surface Elevation: 688.36' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1802 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
690											
0											8" Flush-mounted Well Box
										Asphalt.	Concrete Pad (0'-1' bgs)
							0.0			FILL - Black and dark grey Slag, Cinders, Brick debris and fine to medium Sand; trace Silt; moist, loose.	
1		0-5	NA	NA	NA		0.0				Bentonite Cement Grout (1'-5' bgs)
685											2" Dia. SCH40 PVC Riser (0'-7' bgs)
5		2	5-7	0.5	1 2 7 7	9	0.0			Brown to yellowish brown fine to medium SAND; little fine to coarse Gravel, angular to subangular; moist, loose.	Hydrated Granular Bentonite (5'-6' bgs)
		3	7-9	NR	NA	NA	NA			No Recovery. Rock stuck in sample shoe.	
680										No Recovery. Rock stuck in sample shoe.	
10		4	9-11	NR	16 17 17 16	34	NA				2" Dia., 0.020" slot SCH40 PVC Well Screen (7'-17' bgs)
		5	11-13	0.2	14 15 16 18	31	26.1			Grey fractured COBBLES; wet, loose, trace to little brownish and yellowish OLM, moderate MGP-like odor.	#0 Sand Pack (6'-17' bgs)
675		6	13-15	1.0	2 12 7 6	19	80.1 75.2 48.5			Dark olive grey fine to coarse SAND; little fine to coarse Gravel, angular to subround; wet, loose, moderate MGP-like odor, little sheen on water in pore space.	
15										Olive grey and brown SILT; little to trace Clay; wet, sheen on water in pore space.	
					13 12		13.6			Olive grey SILT interbedded with very fine SAND; moist to wet, medium stiff, little sheen on water in pore space, moderate MGP-like odor.	

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; OLM = Oil-Like Material.

Location hand cleared 0-5' bgs.



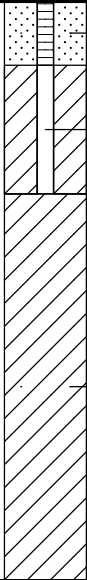
Client: NYSEG

Well/Boring ID: MW-1802

Site Location:

Borehole Depth: 25' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
20	670	7	15-17	0.7	4	16	13.9				 #0 Sand Pack (6'-17' bgs) 2-ft Sump (17'-19' bgs) Bentonite Cement Grout (17'-25' bgs)
		8	17-19	1.4	2	6	9.8			Brownish grey SILT; trace Clay; moist, medium stiff, slight MGP-like odor.	
					2		12.3			Brownish grey very fine SAND and SILT; wet, medium dense, rapid dilatancy; trace sheen on water in pore space.	
					4		5.6			Brownish grey SILT; trace Clay; moist, medium stiff, slight MGP-like odor.	
					3						
		9	19-21	0.9	1	5	4.8			Brownish grey very fine SAND; trace to little Silt; trace Clay at 19.7' to 19.9' bgs; wet, rapid dilatancy; medium dense to loose.	
					2		3.7				
					3		4.9				
					3						
		10	21-23	1.5	4	8	2.9			Brownish grey very fine SAND; little Silt, trace Clay; wet, medium dense to loose, rapid dilatancy.	
					3		7.1				
					5		3.9				
					5						
665	23-25	0.9	3	8	2.7			Grey SILT and very fine SAND; moist, soft to medium stiff.			
			4								
			4		2.9						
25									End of Boring. Boring terminated at 25' bgs.		
30	660										
35	655										

Date Start/Finish: 12/4/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934402.82 Easting: 1385885.61 Casing Elevation: 686.96' AMSL Borehole Depth: 19' bgs Surface Elevation: 687.30' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1803 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
690											
0											8" Flush-mounted Well Box
										Asphalt.	Concrete Pad (0'-1' bgs)
							0.0			FILL - Black cinders and slag; little fine to coarse Sand; moist, loose.	
685		1	0-5	NA	NA	NA	0.0			Light grey and grey SILT; some white cinder and ash-like material; trace small Cobbles, subround; trace Clay; moist, loose.	Bentonite Cement Grout (1'-5' bgs)
							0.0				2" Dia. SCH40 PVC Riser (0'-7' bgs)
5										Yellowish brown very fine to fine SAND; trace fine Gravel, subround; moist, loose.	
		2	5-7	0.9	2 6 7 7	13	0.0			Dark reddish brown to reddish brown very fine SAND and SILT; little fine to coarse Gravel, angular to subround; moist, loose.	Hydrated Bentonite Chips (5'-6' bgs)
							0.0				
680		3	7-9	0.7	9 12 16 16	28	0.0			Reddish brown fine to coarse SAND; some fine to coarse Gravel, angular to subangular; moist, loose.	
							0.0				2" Dia., 0.020" slot SCH40 PVC Well Screen (7'-17' bgs)
		4	9-11	0.3	30 50/3"	NA	0.0			Grey fractured COBBLE; trace very fine to medium Sand; dry, loose.	
-10										No Recovery.	#0 Sand Pack (6'-17' bgs)
		5	11-13	NR	13 11 8 6	19	NA				
675											
		6	13-15	0.8	1 3 8 9	11	0.7 0.6			Brownish grey fine to coarse GRAVEL, angular to subround; trace fine to coarse Sand; wet, loose, little brown OLM on surface of water in pore space, moderate MGP-like odor.	
-15										Brownish grey SILT and very fine to fine SAND; trace fine to coarse Gravel, angular to subangular; wet, very loose, strong MGP-like odor, little OLM on surface of water in pore space.	
					3 4		2.7				

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; OLM = Oil-Like Material.

Location hand cleared 0-5' bgs.



Client: NYSEG

Well/Boring ID: MW-1803

Site Location:

Borehole Depth: 19' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	0.7	8	12	2.6				
					6					Yellowish brown SILT and very fine SAND; wet, soft.	
		8	17-19	1.6	3	7	6.8			Grey SILT interbedded with layers of Clay and very fine Sand; wet to moist, medium stiff, nonplastic to low plasticity, slight MGP-like odor; trace to little rainbow sheen on water in pore space.	
					3		3.5				
					4		3.4				
					5						
20										End of Boring. Boring terminated at 19' bgs.	
665											
25											
660											
30											
655											
35											

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; OLM = Oil-Like Material.

Location hand cleared 0-5' bgs.



Northings: 934396.25
Easting: 1385985.14
Casing Elevation: 686.61' AMSL

Borehole Depth: 13' bgs
Surface Elevation: 686.94' AMSL

Descriptions By: Ryan Clare

Well/Boring ID: MW-1804

Client: NYSEG

Location: Dansville Manufactured Gas Plant -
OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0											
685		1	0-5	NA	NA	NA	0.0			FILL - Dark brown fine to coarse SAND; little fine to coarse Gravel, subangular to subround; trace Slag and Asphalt debris; moist, loose.	8" Flush-mounted Well Box
							0.0			FILL - Dark olive brown SILT; trace very fine Sand; trace Clay; trace white Cinders and Ash; moist, medium stiff.	Concrete Pad (0'-1' bgs)
5		2	5-7	NR	1 6 6 4	12	NA			No Recovery.	Bentonite Cement Grout (1'-4' bgs)
680		3	7-9	0.9	3 6 8 10	14	4.3 6.5			Dark reddish brown very fine to coarse SAND; some fine to coarse Gravel, angular to subangular; little Silt; moist and wet, loose, slight MGP-like odor, trace glossy sheen on water in pore space.	2" Dia. SCH40 PVC Riser (0'-6' bgs)
		4	9-11	0.7	2 4 14 12	18	0.0 0.0			Brown fine to medium SAND; little fine to coarse Gravel, angular to subround; trace Silt; wet, loose.	Hydrated Bentonite Chips (4'-5' bgs)
10		5	11-13	1.4	7 6 8 8	14	0.0 0.0 0.0			Yellowish grading to greyish brown SILT; trace very fine Sand; trace Clay; wet, medium dense, slow dilatancy.	#0 Sand Pack (5'-11' bgs)
675										Grey SILT; trace very fine Sand; trace Clay; wet to moist, stiff.	2" Dia., 0.020" slot SCH40 PVC Well Screen (6'-11' bgs)
										End of Boring. Boring terminated at 13' bgs.	2-ft Sump (11'-13' bgs)
15											Bentonite Cement Grout (11'-13' bgs)

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery.

Location hand cleared 0-5' bgs.



Date Start/Finish: 12/5/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934460.11 Easting: 1385570.05 Casing Elevation: 685.80' AMSL Borehole Depth: 17' bgs Surface Elevation: 686.15' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1805 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	685	1	0-5	NA	NA	NA	0.0			Dark brown very fine to fine SAND and SILT; trace fine to medium Gravel, subround to subangular; trace organics; moist, loose.	8" Flush-mounted Well Box
										Yellowish brown very fine to fine SAND; little Silt; trace fine Gravel, subangular; moist, medium dense.	Concrete Pad (0'-1' bgs)
											Bentonite Cement Grout (1'-3' bgs)
											Hydrated Bentonite Chips (3'-4' bgs)
5	680	2	5-7	1.2	2 6 12 11	18	0.0 0.0			Yellowish olive brown fine to coarse SAND; little fine to coarse Gravel, angular to subangular; trace fractured Cobbles; moist, loose.	2" Dia. SCH40 PVC Riser (0'-5' bgs)
										Yellowish olive brown fine to coarse SAND; little fine to coarse Gravel, angular to subangular; little fractured Cobbles; dry and moist, loose.	
		3	7-9	1.0	11 24 18 14	42	0.0 0.0			No Recovery.	#0 Sand Pack (4'-15' bgs)
											2" Dia., 0.020" slot SCH40 PVC Well Screen (5'-15' bgs)
10	675	4	9-11	NR	19 23 26 35	49	NR			Yellowish olive brown fine to coarse SAND; little fine to coarse Gravel, angular to subangular; little fractured Cobbles; dry and moist, loose.	
										Grey and olive fine to coarse SAND; little fine to coarse Gravel; trace Silt; wet, loose, slight MGP-like odor, trace sheen on water in pore space.	
		5	11-13	0.9	8 20 13 11	33	0.9 12.6			Olive grey to olive brown fine to coarse SAND; some fine to coarse Gravel, angular to subround; trace Silt; wet, loose, slight MGP-like odor, trace sheen on water in pore space.	
		6	13-15	0.8	10 10 10 6	20	4.8 1.0			Grey SILT interbedded with layers of very fine Sand and layers of Clay; wet, soft to medium stiff, slight MGP-like odor. Layers of Sand have slow dilatancy.	2-ft Sump (15'-17' bgs)
15					3 3		0.1				

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery. Location hand cleared 0-5' bgs. 3-inch diameter split-spoon used from 5' to 13' bgs. Soil samples collected for analytical from (12.5' - 13') and (16' - 17") bgs.

Client: NYSEG

Well/Boring ID: MW-1805

Site Location:

Borehole Depth: 17' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
670	7	15-17	1.2	4	7	0.1					 Bentonite Cement Grout (15'-17' bgs)
20										End of Boring. Boring terminated at 17' bgs.	
665											
25											
660											
30											
655											
35											

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery.

Location hand cleared 0-5' bgs.
 3-inch diameter split-spoon used from 5' to 13' bgs.
 Soil samples collected for analytical from (12.5' - 13') and (16' - 17') bgs.



Date Start/Finish: 12/6/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934451.82 Easting: 1385738.79 Casing Elevation: 686.87' AMSL Borehole Depth: 15' bgs Surface Elevation: 687.19' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1806 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
690											
0											8" Flush-mounted Well Box
										FILL - Brown SILT and very fine SAND; trace fine Gravel, angular; trace organics; trace cinder and ash debris; moist, loose.	Concrete Pad (0'-1' bgs)
685		1	0-5	NA	NA	NA	0.0			Yellowish brown very fine SAND; little Silt; moist, medium dense.	
5											Bentonite Cement Grout (1'-6' bgs)
					WOH					Reddish to light olive Brown SILT; trace Clay; moist, stiff.	2" Dia. SCH40 PVC Riser (0'-8' bgs)
		2	5-7	1.2	3	7	0.0			Light olive brown SILT and very fine SAND; trace fine Gravel, subround; moist, medium stiff.	Hydrated Bentonite Chips (6'-7' bgs)
					4		0.0				
680					3					Light yellowish brown very fine SAND and SILT; trace fine gravel, subangular to subround; moist and wet, loose. Rock stuck in sample shoe.	
		3	7-9	0.8	4	9	0.0				
					5		0.0				
					6						
-10					5					Yellowish brown fine to medium SAND; little fractured Cobbles; dry and moist, loose. Rock stuck in sample shoe.	#0 Sand Pack (7'-13' bgs)
		4	9-11	0.3	15	25	0.0				
					20						
					20						
					9		0.0			Olive gray fine to medium SAND; little fractured Cobbles; dry and moist, loose.	2" Dia., 0.020" slot SCH40 PVC Well Screen (8'-13' bgs)
675		5	11-13	0.9	9	20	0.0				
					11		0.0			Grey SILT and very fine SAND; wet, slow dilatancy, trace sheen on water in pore space.	
					10						
					7		0.0			Grey SILT; little Clay layers discolored black; moist and wet, medium stiff.	2-ft Sump (13'-15' bgs)
		6	13-15	1.3	6	11	0.0			Grey very fine SAND; wet, medium dense, rapid dilatancy.	Hydrated Bentonite Chips (13'-15' bgs)
					5		0.0			Grey SILT; little Clay layers discolored black; moist and wet, medium stiff.	
					8						
-15										End of Boring. Boring terminated at 15' bgs.	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; WOH = Weight of Hammer. Location hand cleared 0-5' bgs. Soil samples collected from 11'-13' and 14'-15' bgs for analysis of TCL VOCs and PAHs.

Date Start/Finish: 12/6/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934565.12 Easting: 1385539.86 Casing Elevation: 683.16' AMSL Borehole Depth: 18' bgs Surface Elevation: 683.53' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1807 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
685											
0											8" Flush-mounted Well Box
		1	0-5	NA	NA	NA	0.0			Brown fine to very fine SAND and SILT; little fine to coarse Gravel, subround; trace small Cobbles, subround; moist, loose.	Concrete Pad (0'-1' bgs)
680										Brown fine to coarse SAND; little fine to coarse Gravel, subround to sub angular; little small to medium Cobbles, subround; moist, loose.	Bentonite Cement Grout (1'-4' bgs)
5		2	5-7	0.9	5 11 13 11	24	0.0 0.0			Yellowish brown very fine to fine SAND; little to some medium to coarse Gravel, angular to subangular; trace fractured Cobbles; dry and moist, loose. Rock stuck in sample shoe.	Hydrated Bentonite Chips (4'-5' bgs)
		3	7-9	1.0	9 15 11 8	26	0.0 0.0			Yellowish brown very fine to medium SAND; little to some medium to coarse Gravel, angular to subangular; trace fractured Cobbles; dry and moist, loose; wet at 8.9' to 9' bgs.	2" Dia. SCH40 PVC Riser (0'-6' bgs)
675										Reddish brown very fine to medium SAND; little to some medium to coarse Gravel, angular to subangular; trace fractured Cobbles; trace Silt; moist, loose; wet at 10.9' to 11' bgs.	2" Dia., 0.020" slot SCH40 PVC Well Screen (6'-16' bgs)
10		4	9-11	1.1	11 23 16 20	39	0.0 0.0			Brown medium to coarse Gravel; trace fine to medium Sand; angular to subround; wet, loose, very slight MGP-like odor.	#0 Sand Pack (5'-16' bgs)
		5	11-13	0.1	14 11 7 6	18	0.0			Olive grey very fine to fine SAND; some fine to coarse Gravel, angular to subround; little silt; very loose, slight MGP-like odor, trace sheen on water in pore space.	
670		6	13-15	1.1	4 10 8 11	18	0.0 0.0			Grey SILT interbedded with very fine Sand and Clay layers; wet and moist, soft to medium stiff, trace to little sheen on water in pore space. Trace brown blebs of OLM on outside of sample spoon and in slough material.	
15					3 6		0.0				



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Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; OLM = Oil-Like Material.

Location hand cleared 0-5' bgs.
3-inch diameter split-spoon used from 9' to 18' bgs.
Soil samples collected from 9'-11' and 16'-17' bgs for analysis of TCL VOCs and PAHs.

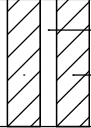
Client: NYSEG

Well/Boring ID: MW-1807

Site Location:

Borehole Depth: 18' bgs

Dansville Manufactured Gas Plant - OU2
 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
		7	15-17	1.3	9 8	15	0.0	X			 2-ft Sump (16'-18' bgs) Bentonite Cement Grout (16'-18' bgs)
										Not Sampled; Auger advanced to 18' bgs to set sump.	
665										End of Boring. Boring terminated at 18' bgs.	
20											
660											
25											
655											
30											
650											
35											

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; OLM = Oil-Like Material.

Location hand cleared 0-5' bgs.
 3-inch diameter split-spoon used from 9' to 18' bgs.
 Soil samples collected from 9'-11' and 16'-17' bgs for analysis of TCL VOCs and PAHs.



Date Start/Finish: 12/3/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934407.70 Easting: 1385695.18 Casing Elevation: 686.61' AMSL Borehole Depth: 23' bgs Surface Elevation: 686.96' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1808 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
0											8" Flush-mounted Well Box
685		1	0-5	NA	NA	NA	0.0		Asphalt.	FILL - Brown fine to coarse SAND; some Ash, Cinders, and Brick fragments; moist, loose.	Concrete Pad (0'-1' bgs)
							0.0			FILL - Dark grey and black fine to coarse SAND; some Ash, Cinders, and Brick fragments; moist, loose.	
							0.0				
							0.0				
5		2	5-7	0.5	2	4	0.0		Dark olive brown SILT; little very fine Sand; trace coarse Gravel, subangular; trace Clay; moist, medium stiff, low plasticity.		Bentonite Cement Grout (1'-7' bgs)
					2						2" Dia. SCH40 PVC Riser (0'-9' bgs)
					2						
680		3	7-9	0.8	4	9	0.0		Yellowish olive brown fine to coarse SAND; little fine to coarse Gravel, angular to subangular; trace silt; moist, loose. Fractured Sandstone at 7.2' to 7.3' bgs.		Hydrated Bentonite Chips (7'-8' bgs)
					5		0.0				
					6						
					4		0.0		Yellowish olive brown fine to coarse SAND; little fine to coarse Gravel, angular to subangular; trace silt; moist, loose, wet at 10.8' to 11' bgs. Fractured Cobble at 9.0' to 9.2' bgs		2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-19' bgs)
					10	32	0.0				
					10						
					7		0.0		Olive brown and grey fine to coarse GRAVEL, angular; little fine to coarse Sand; trace Silt; wet, loose, little rainbow sheen on water in pore space, slight MGP-like odor.		
675		5	11-13	0.6	5	17	0.0				
					12		1.9				
					10						
					3		0.0		Olive brown to olive grey very fine SAND and SILT; wet, loose, rapid dilatancy; trace black layers of Silt and Clay from 13.4'-13.6' bgs, very slight MGP-like odor.		#0 Sand Pack (8'-19' bgs)
		6	13-15	1.5	4	10	0.1				
					6		0.0				
					7						
15					3		0.0		Brownish grey SILT interbedded with very fine SAND; trace layers of Clay; wet and moist, soft, slight MGP-like odor.		
					4						

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery. Location hand cleared 0-5' bgs.

Client: NYSEG

Well/Boring ID: MW-1808

Site Location:

Borehole Depth: 23' bgs

Dansville Manufactured Gas Plant - OU2
Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
670		7	15-17	1.2	7	11	0.0				2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-19' bgs) #0 Sand Pack (8'-19' bgs) 2-ft Sump (19'-21' bgs) Bentonite Cement Grout (19'-23' bgs)
		8	17-19	1.2	3	7	0.0				
					3		0.0				
					4		0.0				
					4		0.0				
20		9	19-21	1.8	4	7	0.0			Brownish grey alternating layers of SILT and CLAY at 20.5' to 20.8' bgs; soft, wet and moist, slight MGP-like odor.	
					3		0.0				
					4		0.0				
					5		0.0				
665		10	21-23	1.3	1	7	0.0			Grey SILT and CLAY interbedded with trace very fine Sand layers; moist, soft, low plasticity.	
					3		0.0				
					4		0.0				
					2		0.0				
										End of Boring. Boring terminated at 23' bgs.	
25											
660											
30											
655											
35											

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery.

Location hand cleared 0-5' bgs.



Date Start/Finish: 12/6/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Thomas Mangefrida Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-55 LC Sampling Method: 2" x 2' Split Spoon	Northing: 934556.82 Easting: 1385439.65 Casing Elevation: 682.49' AMSL Borehole Depth: 15' bgs Surface Elevation: 682.78' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1809 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
685											
0											8" Flush-mounted Well Box
										Brown and dark brown SILT; little very fine Sand; trace organics; moist, soft.	Concrete Pad (0'-1' bgs)
680		1	0-5	NA	NA	NA	0.0			Brown fine to coarse SAND; little to some medium to coarse Gravel and small Cobbles, subangular to subround; moist, loose.	Bentonite Cement Grout (1'-6' bgs)
5										No Recovery. Rock stuck in sample shoe.	2" Dia. SCH40 PVC Riser (0'-8' bgs)
		2	5-7	NR	11 30 50/5"	NA				No Recovery. Large Boulder or Cobble in borehole.	Hydrated Bentonite Chips (6'-7' bgs)
675		3	7-9	NR	50/3"	NA					2" Dia., 0.020" slot SCH40 PVC Well Screen (8'-13' bgs)
										Brown very fine to medium SAND; some coarse Gravel, angular to subround; little fractured Cobbles; trace Silt; moist, loose. Rock stuck in sample shoe.	#0 Sand Pack (7'-13' bgs)
10		4	9-11	0.9	23 18 21 16	39	0.0 0.0			Fractured COBBLES and coarse GRAVEL, angular; moist, loose.	
										Reddish brown SILT; trace to little Clay; moist, stiff.	
670		5	11-13	1.4	30 14 15 13	29	0.0 0.0 0.0			Grey SILT; trace to little Clay; interbedded with layers of very fine Sand; wet, soft, slow dilatancy.	2-ft Sump (13'-15' bgs)
		6	13-15	1.1	5 4 4 4	8	0.0 0.0				Bentonite Cement Grout (13'-15' bgs)
15										End of Boring. Boring terminated at 15' bgs.	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery. Location hand cleared 0-5' bgs. Soil samples collected from 9'-11' and 14'-15' bgs for analysis of TCL VOCs and PAHs.

Date Start/Finish: 10/8/2018 - 10/9/2018 Drilling Company: Nothnagle Drilling Inc. Driller's Name: Kevin Busch Drilling Method: Hollow Stem Auger Auger Size: 4.25" ID Rig Type: CME-75 Sampling Method: 2" x 2' Split Spoon	Northing: 934140.89 Easting: 1385726.04 Casing Elevation: 689.03' AMSL Borehole Depth: 25' bgs Surface Elevation: 689.39' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-1810 Client: NYSEG Location: Dansville Manufactured Gas Plant - OU2 Dansville, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Well/Boring Construction
690											
0											8" Flush-mounted Well Box
		1	0-5	NA	NA	NA	NA			Brown very fine SAND; little small to large Cobbles, subround; moist, loose.	Concrete Pad (0'-1' bgs)
685											Bentonite Cement Grout (1'-7' bgs)
5		2	5-7	1.4	5 8 9 9	17	0.0 0.0 0.0			Dark greyish brown fine to coarse SAND; some fine to coarse Gravel, angular to subangular; moist, loose.	2" Dia. SCH40 PVC Riser (0'-8' bgs)
		3	7-9	1.2	8 14 16 17	30	0.0 0.0 0.0				Hydrated Bentonite Chips (7'-8' bgs)
680		4	9-11	0.7	14 12 16 16	28	0.0 0.0			Olive brown fine to coarse GRAVEL, angular; some fractured Cobbles; trace fine to coarse Sand; moist, loose.	
										Olive brown fine to coarse GRAVEL, angular to subround; little fractured Cobbles; trace fine to coarse Sand; wet, loose, trace TLM, slight MGP-like odor.	2" Dia., 0.020" slot SCH40 PVC Well Screen (9'-21' bgs)
		5	11-13	1.4	8 9 10 11	19	1.9 0.0 0.0			Olive brown very fine SAND and SILT interbedded with 1-3 mm thick layers of Clay; wet, soft.	
		6	13-15	1.6	8 9 8 8	17	0.0 0.0 0.0			Olive brown very fine SAND and SILT interbedded with 1-3 mm thick layer of reddish brown Clay; wet and moist. Very fine Sand layers at 13.25' to 13.4' and 14.4' to 14.5' bgs.	#0 Sand Pack (8'-21' bgs)
675											
					18 16					No Recovery.	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; TLM = Tar-Like Material. Location hand cleared 0-5' bgs. Soil samples collected from 7'-9', 11.5'-12', and 20.5'-21' bgs for analysis of TCL VOCs and PAHs.

Client: NYSEG

Well/Boring ID: MW-1810

Site Location:

Dansville Manufactured Gas Plant - OU2
Dansville, NY

Borehole Depth: 25' bgs

[illegible]

Remarks: bgs = below ground surface; ags = above ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level; NR = No Recovery; TLM = Tar-Like Material.

Location hand cleared 0-5' bgs.
Soil samples collected from 7'-9', 11.5'-12', and 20.5'-21' bgs for analysis of TCL VOCs and PAHs.

APPENDIX G

Field Sampling Plan

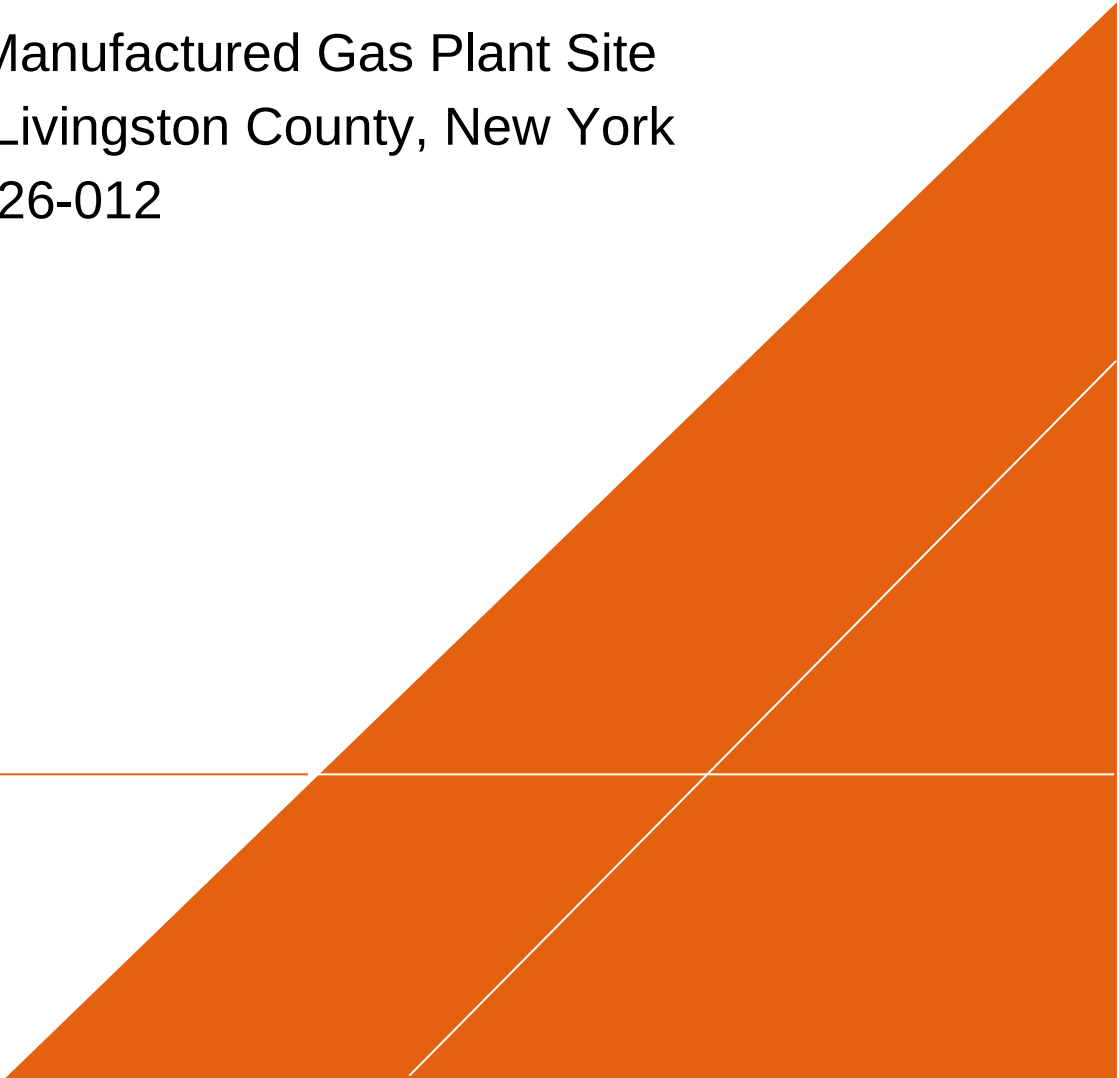


NYSEG

FIELD SAMPLING PLAN

Dansville Manufactured Gas Plant Site
Dansville, Livingston County, New York
Site No. 8-26-012

November 2022

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a complex, angular form that extends from the bottom edge towards the top right corner.

FIELD SAMPLING PLAN

Dansville Manufactured Gas Plant Site

Prepared for:

NYSEG

Prepared by:

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Date:

November 2022

VERSION CONTROL, OPTIONAL

Issue	Revision No.	Date Issued	Page No.	Description	Reviewed By

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FIELD SAMPLING PLAN

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- B Groundwater Sampling Log
- C Building Survey and Product Inventory Form
- D Indoor Air/Ambient Air Sample Collection Log
- E Sub-Slab Soil Vapor Sample Collection Log
- F Tracer Gas Procedures

1 INTRODUCTION

1.1 General

This Field Sampling Plan (FSP) supports the Site Management Plan (SMP) for the Dansville Former Manufactured Gas Plant (MGP) Site located in Dansville, New York (the Site).

This FSP contains field procedures and sample collection methods to be used to characterize environmental media as needed to monitor the effectiveness of the previously implemented remedial construction activities and/or investigate environmental media to support future site redevelopment and utility installation/maintenance (as necessary).

Site background information, including a summary of the remedial investigation results and the remedial actions, is included in the SMP. The FSP should be used in conjunction with the Excavation Work Plan (EWP), the Quality Assurance Project Plan (QAPP), the Health and Safety Plan (HASP), and the Community Air Monitoring Plan (CAMP) included as Appendices to the SMP. The EWP outlines actions to be performed for any intrusive work. The QAPP outlines procedures that will be used to ensure that data collected and subsequent reports are of high enough quality to meet project objectives, as well as a description of general field and laboratory procedures. The HASP presents the procedures and practices to be followed during ground-intrusive activities to promote the safety of workers, and is designed to prevent occupational injuries and worker exposures to chemical, physical, and biological hazards. The CAMP provides a measure of protection for the downwind communities from potential airborne release of residual impacts during intrusive work activities.

1.2 Overview of Potential Characterization / Investigation Field Activities

The following activities may be conducted at the Site:

- Groundwater monitoring (including monitoring for non-aqueous phase liquid [NAPL]) and groundwater sampling
- Vapor sampling (as necessary), including sub-slab soil vapor (gas) sampling, indoor air, and ambient air sampling
- Soil sampling (for waste characterization purposes)
- Community air monitoring

2 FIELD ACTIVITIES

This section describes field procedures and methodology potentially used for site monitoring.

2.1 General Field Guidelines

2.1.1 Utilities

Underground utilities will be identified and located prior to any ground intrusive activities/sampling. Public and privately-owned utilities will be located by contacting responsible agencies by phone so that their underground utilities can be marked at the Site. Other potential on-site hazards, such as traffic, overhead power lines, and building hazards, will be identified during a site reconnaissance visit.

2.1.2 Field Book

Field log books will be maintained by the field team leader and other team members to provide a daily record of significant events, observations, and measurements during the field investigation.

Information pertinent to the field investigation and/or sampling activities will also be recorded in the log books. The books will be bound with consecutively numbered pages. Entries in the log book will include, at a minimum, the following information:

- Name of author, date of entry, and physical/environmental conditions during field activity
- Purpose of sampling activity
- Location of sampling activity
- Name of field crew members
- Name of any site visitors
- Sample media (e.g., soil, groundwater)
- Sample collection method
- Number and volume of sample(s) taken
- Description of sampling point(s)
- Volume of groundwater removed before sampling (where appropriate)
- Preservatives used
- Date and time of collection
- Sample identification number(s)
- Field observations
- Any field measurements made, such as, but not limited to, pH, temperature, conductivity, water level

FIELD SAMPLING PLAN

All original data recorded in field log books and chain of custody (COC) records will be written with indelible ink. If an error is made on an original document assigned to one individual, that individual will make all corrections simply by crossing a single line through the error and entering the correct information. The erroneous information will not be erased. Any subsequent error discovered on an original document will be corrected by the person who made the entry. All subsequent corrections will be initialed and dated.

2.1.3 Sampling, Labeling, Packing, and Shipping

Each sample will be given a unique identification. With this type of identification, no two samples will have the same label.

Samples will be promptly labeled upon collection with the following information:

- Project number and site name
- Unique sample identification
- Analysis required
- Date and time sampled
- Sample type (composite or grab)
- Preservative, if applicable

Clear tape will be secured over the sample label and the COC will be initiated.

Appropriate sample containers, preservation methods, and laboratory holding times for each sample type will be applied as identified in the QAPP.

If samples are to be shipped by commercial carrier (e.g., Federal Express), sample bottles/jars will be packed in coolers containing the following:

- A drain plug (if present) that has been sealed with duct tape
- 1 to 2 inches of bubble wrap on the bottom of the cooler
- Water ice packaged in re-sealable plastic bags
- Sufficient bubble wrap to fill in the remaining area
- The completed COC in a re-sealable plastic bag, taped in place on the inside cover of the cooler

The cooler will then be sealed with tape. Appropriate shipping labels, such as "this-end-up" and "fragile" stickers will be affixed to the cooler. Samples will be hand delivered or delivered by an express carrier within 48 hours of sample collection. The express carrier will not be required to sign the COC form; however, the shipping receipt should be retained by the sampler and forwarded to the project files.

All samples, whether solids, liquids, or gases, being shipped by air or ground transport will be evaluated using a Shipping Determination process to determine if the material or equipment being shipped is hazardous for transport. All materials identified as HazMat will be shipped according to applicable United States Department of Transportation (USDOT) and International Air Transport Association (IATA)

regulations and requirements. All employees collecting samples, preparing HazMat packages, or offering HazMat to a third-party carrier such as FedEx will have current HazMat training.

2.1.4 Equipment Decontamination

Equipment decontamination is performed to ensure that sampling equipment that contacts a sample, or monitoring equipment that is brought into contact with environmental media to be sampled, is free from constituents that would interfere with laboratory analysis for analytes of interest. Equipment must be cleaned prior to use on-site for sampling or contact with environmental media, and prior to shipment or storage.

The following equipment will be required for use during sampling equipment cleaning procedures:

- Appropriate personal protective equipment (PPE), as required in the site HASP
- Distilled water
- Non-phosphate detergent such as Alconox (or equivalent)
- Tap water
- Rinsate collection plastic containers
- USDOT-approved waste shipping container(s)
- Brushes
- Large heavy-duty garbage bags
- Spray bottles
- (Optional) – Isopropyl Alcohol
- (Optional) – “pesticide grade” Methanol
- (Optional) – “ultra-pure grade” Nitric Acid
- (Optional) – Hexane
- Ziploc-type bags
- Plastic sheeting

Prior to collecting samples to be submitted for chemical analysis, if any, all non-dedicated bowls, spoons, hand augers, bailers, and filtering equipment will be washed with potable water and a detergent (such as Alconox®). Decontamination may take place at the sampling location as long as all liquids are contained in pails and buckets. Sampling equipment will then be rinsed with potable water, followed by isopropyl alcohol, a 10 percent “pesticide-grade” methanol rinse (if sampling for pesticides), and finally a distilled water rinse. When sampling for inorganic constituents in an aqueous phase, an additional rinse step will be added prior to the rinse with methanol. The rinse step will entail a rinse with a 10 percent “ultra-pure-grade” nitric acid followed by a distilled water rinse. Between rinses, equipment will be placed on polyethylene sheets or aluminum foil, if necessary. At no time will washed equipment be placed directly

on the ground. Equipment will either be used immediately or wrapped in plastic or aluminum foil for storage or transportation from the designated decontamination area to the sampling location.

Equipment decontamination rinsate will be managed in conjunction with all other waste produced during the field sampling effort. Waste management procedures are outlined in the EWP and discussed in Section 3 of this FSP.

2.2 Groundwater Sampling and Monitoring Wells

2.2.1 Monitoring Well Integrity Inspection

Monitoring well inventories will be conducted to assess the integrity of existing monitoring wells and to identify the need for repairs, replacement of parts, or replacement of wells that are determined to no longer be usable. A well inventory involves an inspection of the overall condition of the well, comparison of measurable entities (e.g., riser stickup relative to grade and total depth), measurement of depth to water in the well, and measurement of sediment accumulation in the well.

The typical procedure for assessing the integrity of a monitoring well is outlined below.

1. Prior to mobilizing in the field, obtain a list of wells/piezometers to be inventoried and available information concerning their location and physical characteristics.
2. Identify site and well identification number on the Well Integrity Assessment Form (Attachment A). Record all observations on this form, supplemented by notes in the field notebook if necessary.
3. Examine the well for the presence of an identification label or marking. If absent, label the well with the appropriate well number after measuring the total depth of the well to verify that the depth matches the information for the well number.
4. Examine the surface condition of the well. Record the type of well (i.e., flush mount or above-grade stickup) and condition of the well cover and surface seal. Confirm the protective casing is not bent, the PVC casing is not broken or chipped, and there is no evidence of frost heaving.
5. Unlock and open the well. Record the type (e.g., PVC or stainless-steel), dimensions (i.e., casing diameter and stickup relative to grade), condition of the well casing, and type of well cap. If the well cap is missing, replace with available parts or record the type of cap required.
6. Measure the above-grade portion of the well riser stickup and compare to the known length of the stickup measured during well installation (surveyed top of inner casing elevation minus ground surface elevation).
7. Locate the marked measuring point along the top of the well casing. If no mark is visible, add a mark at the highest point of the casing using an indelible pen.
8. Measure the depth to water and total depth of the well. For total depth measurements, account for any difference in calibration of the measuring tape on the probe (i.e., distance from part of probe that measures depth to water and the physical bottom of the probe which will measure total depth of the well). Record any obstructions encountered and a description of the feel of the well bottom (i.e., soft due to sediment or hard).

9. Compare all observations concerning the measured dimensions of the well with the constructed values presented on the well construction log. Perform any recommended maintenance activities that can be accomplished with available equipment.
10. Demobilize from the well.

Depending on the results of the well inventory, several additional activities may be warranted prior to future usage of the well. Typical follow-up activities include replacement of missing parts, removal of sediment from the well, resurvey the well, or complete replacement if the well is determined to be unusable. If sediment accumulation is greater than 10 percent of the saturated screen interval, activities will be taken to remove the sediment by pumping or bailing the well. Removed sediment should be inspected for the presence of filter pack materials which may indicate that the well screen has been damaged. If initial efforts are unsuccessful in clearing the sediment accumulations, the well may need to be re-developed or replaced.

Replacement or decommissioning of a well may be warranted if the well is broken, obstructed, or otherwise compromised. If the well cannot be adequately repaired and is required for future monitoring purposes, a replacement well should be installed if no suitable alternate wells are located in the vicinity.

2.2.2 Monitoring Well Redevelopment

A minimum of 7 days before collecting groundwater samples, the monitoring wells may be redeveloped (as needed) by surging/bailing, using a centrifugal pump and dedicated polyethylene tubing, or by Waterra positive displacement pumps and dedicated polyethylene tubing, or other methods at the discretion of the Field Manager/Site Supervisor. The development water will be containerized in a tank or drums staged on-site. The wells may be redeveloped until the water removed from the well is reasonably free of visible sediment (less than 50 nephelometric turbidity units [NTUs]), if possible, or until the turbidity levels stabilize, assuming a minimum of 10 well volumes of water have been removed from the monitoring well during redevelopment. Monitoring well redevelopment will be overseen by a field geologist and the duration, method of development, and approximate volume of water removed will be recorded in the field book.

2.2.3 Water Level Measurement

Water levels may be measured using an electronic dual-phase oil-water level indicator. Reference points will be surveyed to evaluate fluid elevations relative to mean sea level (msl).

The following procedure will be used to measure water-level depths at monitoring wells and surface water gauges:

- Decontaminate the dual-phase oil-water level indicator.
- Measure the static water-level, fluid interfaces (i.e., NAPL/water interface), and sound the bottom of the well (if applicable) with reference to the surveyed elevation mark on the top of the PVC casing or surface water gauge. Record all measurements to nearest 0.01 foot and record in the field book.

The measurements will be made in as short a timeframe as practical to minimize temporal fluctuations in hydraulic conditions.

2.2.4 NAPL Collection and Recovery

NAPL will be measured and collected from the NAPL monitoring wells, if observed. LNAPL thickness will be measured using an oil-water interface probe and confirmed using a clear bailer. DNAPL presence and thickness will be measured using a weighted tape. Any DNAPL that accumulates in a well will be periodically removed to prevent DNAPL from overtopping out of the well sump. Recovered volumes of NAPL will be recorded. This section outlines standard procedures for measuring and collecting NAPL.

Personnel overseeing, directing, or supervising NAPL collection shall have previous related experience (minimum of 2 years) collecting fluid samples from wells and shall be trained in shipping hazardous materials.

The following equipment and materials will be available, as required, during NAPL collection:

- Appropriate PPE, as required in the site HASP
- Site map, well construction records, prior NAPL collection records (if available)
- Dual-phase interface probe
- Bailer, rope, and bailer retrieval device
- Cleaning equipment/supplies, including deionized (DI) water and Alconox or equivalent
- Indelible ink pens
- Weighted tape
- Plastic sheeting
- Buckets
- Keys to wells

The following steps detail NAPL collection procedures:

1. Measuring the static water level: Proper PPE must be worn (i.e. gloves, safety glasses, steel-toed boots, etc.). Remove cap from well and deploy the interface probe into the well. Measure the static LNAPL and water levels in each well before collection. Decontaminate the interface probe using Alconox (or equivalent) and DI water between well measurements. Read fluid level measurements to the nearest 0.01 foot in reference to the surveyed measuring point on the top of casing. Use the same electronic NAPL and water interface probe for all wells. Make sure to record all depths to product (DTP) and depths to water (DTW) in the field book. Depending on the probe, it may make different sounds for water and NAPL.
2. Monitoring and measuring DNAPL: Lower a weighted tape to the bottom of each well. Make sure the tape stays taut and do not let the tape bunch at the well bottom. Once the bottom is encountered, carefully pull-up the tape measure. When pulling up the tape measure, observe it for evidence of DNAPL, and decontaminate it as it's pulled from the well. Record the DTP and the thickness of product in the field book.
3. Collecting NAPL: Dedicated bailer and rope or disposable bailer and rope must be used for each well. Make sure to sample in the same order that water and NAPL levels were collected to avoid any cross

contamination. Collect the LNAPL by slowly lowering the bailer into the LNAPL, but not into the water. Pull the bailer out of the well. Collect the DNAPL by lowering the bailer to the bottom of the well or using an appropriate pump with dedicated tubing. During bailing of DNAPL, sediment will also be removed from the bottom of the sump to maintain sump capacity.

4. Label waste disposal drums with the project number, site name, date and time collected, media type, hazardous label (if needed), and other DOT required labels.
5. Once NAPL collection is completed, put the cap back on the well, close, and secure it as necessary. PPE (such as gloves and disposable clothing) and other disposable equipment resulting from cleaning procedures and NAPL and water handling activities (such as paper towels, rope, and bailers) will be placed in plastic garbage bags. Disposable PPE and equipment should not be re-used.

2.2.5 Low-Flow Groundwater Purging and Sampling

Groundwater samples will be collected from monitoring wells to evaluate groundwater quality. This protocol describes the procedures to be used to collect groundwater samples. This protocol has been developed in accordance with the United States Environmental Protection Agency (USEPA) Region I Low Stress (Low Flow) Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells (USEPA SOP No. GW0001; July 30, 1996). No wells will be sampled until well development has been performed. During heavy precipitation events, groundwater sampling will be discontinued until precipitation ceases. Groundwater samples will not be collected within one week following well development. When one round of water levels is taken to generate water-elevation data, the water levels will be taken consecutively at one time prior to sampling or other activities.

The following equipment and materials will be available, as required, during groundwater sampling:

- Appropriate PPE, as required in the site HASP
- Site map, well construction records, prior groundwater sampling records (if available)
- Sample pump, which may consist of one or more of the following:
 - Submersible pump (e.g., Grundfos Redi-Flo 2)
 - Peristaltic pump (e.g., ISCO Model 150)
 - Bladder pump (e.g., Marschalk System 1, QED Well Wizard, Geotech, etc.)
- Low-Density Polyethylene tubing of an appropriate size for the pump being used. If sampling for 1,4-dioxane or Per- and Polyfluoralkyl (PFAS), High-Density Polyethylene tubing (HDPE)
- Power source (i.e., generator, battery)
- Photoionization detector (PID)
- Water-level probe

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- Water-quality (temperature/pH/specific conductivity/ORP/turbidity/dissolved oxygen) meter and flow-through measurement cell. Several brands may be used, including:
 - YSI 6-Series Multi-Parameter Instrument
 - Hydrolab Series 3 or Series 4a Multiprobe and Display
 - Horiba U-10 or U-22 Water Quality Monitoring System
- Supplemental turbidity meter (e.g., Horiba U-10, Hach 2100P, LaMotte 2020).
- Appropriate water sample containers
- Appropriate blanks (trip blank supplied by the laboratory)
- Appropriate transport containers (coolers) with ice and appropriate labeling, packing, and shipping materials
- Groundwater sampling logs
- COC forms
- Indelible ink pens
- Decontamination equipment
- Plastic sheeting (for each sampling location)
- Dedicated or disposable bailers
- New disposable polypropylene rope
- Buckets to measure purge water
- Keys to wells

To mitigate potential cross-contamination, groundwater samples are to be collected in a pre-determined order from least impacted to impacted based on previous analytical data. If no analytical data are available, samples are collected in order of upgradient, then furthest downgradient to source area locations.

The following steps detail the monitoring well sampling procedures:

1. Review materials checklist to ensure that the appropriate equipment has been acquired.
2. Identify Site and well to be sampled on sampling log sheets, along with date, arrival time, and weather conditions. Identify the personnel and equipment used and other pertinent data requested on the Groundwater Monitoring Log (Attachment B).
3. Label all sample containers using an appropriate label.
4. Use safety equipment, as required in the HASP.
5. Calibrate field instruments according to manufacturer procedures for calibration.
6. Place plastic sheeting adjacent to the well to use as a clean work area.

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7. Establish the background reading with the PID and record the reading on the field log.
8. Remove lock from the well and if rusted or broken replace with a new brass keyed-alike lock.
9. Unlock and open the well cover while standing upwind of the well. Remove well cap and place on the plastic sheeting. Insert PID probe in the breathing zone above the well casing following instructions in the HASP.
10. Set out on plastic sheeting the dedicated or disposable sampling device and meters.
11. Prior to sampling, groundwater elevations will be measured at each monitoring well and the presence of light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL), if any, will be evaluated. Obtain a water-level depth and bottom of well depth using an electric well probe and record on the sampling log sheet. Clean the well probe after each use with a soapy (Alconox) water wash and a tap water rinse. [Note: water levels will be measured at all wells prior to initiating a sampling event].
12. After groundwater elevations are measured and NAPLs are determined not to be present, groundwater will be purged from the wells. If NAPLs are determined present, then a groundwater sample will not be collected, rather a representative NAPL sample may be collected (if required) using a peristaltic pump or other method determined by the Field Manager/Site Supervisor.
13. Prepare and install pump in well:
 - a. For submersible and non-dedicated bladder pumps, decontaminate pump according to site decontamination procedures. Attach the air line tubing to the air port on the top of the bladder pump. Attach the sample discharge tubing to the water port on the top of the bladder pump. Care should be taken not to reverse the air and discharge tubing lines during bladder pump set-up as this could result in bladder failure or rupture. Attach and secure a safety cable to the eyebolt on the top of bladder pump (if present, depending on pump model used). Slowly lower pump, safety cable, tubing, and electrical lines into the well to a depth corresponding to the approximate center of the saturated screen section of the well. Take care to avoid twisting and tangling of safety cable, tubing, and electrical lines while lowering pump into well; twisted and tangled lines could result in the pump becoming stuck in the well casing. Also, make sure to keep tubing and lines from touching the ground or other surfaces while introducing them into the well as this could lead to well contamination.
 - b. If using a bladder pump, connect the air line to the pump controller output port. The pump controller should then be connected to a supply line from an air compressor or compressed gas cylinder using an appropriate regulator and air hose. Take care to tighten the regulator connector onto the gas cylinder (if used) to prevent leaks. Once the air compressor or gas cylinder is connected to the pump controller, turn on the compressor or open the valve on the cylinder to begin the gas flow. Turn on the pump controller if an on/off switch is present and verify that all batteries are charged and fully operating before beginning to pump.
 - c. If using a peristaltic pump, slowly lower the sampling tubing into the well to a depth corresponding to the approximate center of the saturated screen section of the well. The pump intake or sampling tube must be kept at least 2 feet above the bottom of the well to prevent mobilization of any sediment present in the bottom of the well.

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14. Connect the pump discharge water line to the bottom inlet port on the flowthrough cell connected to the water quality meter.
15. Measure the water level again with the pump in the well before starting the pump if well diameter is 2-inches in diameter or larger. Start pumping the well at 200 to 500 milliliters per minute. Ideally, the pump rate should cause little water-level drawdown in the well (less than 0.3 feet) and water level should be stabilized. The water level should be monitored every three to five minutes (or as appropriate) during pumping. Care should be taken not to cause the pump suction to be broken or entrainment of air in the sample. Record pumping rate adjustments and depths to water. Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to avoid pumping the well dry and/or to ensure stabilization of indicator parameters. If the recharge rate of the well is very low, purging should be interrupted so as not to cause the drawdown within the well to advance below the pump. However, a steady flow rate should be maintained to the extent practicable. Sampling should commence as soon as the volume in the well has recovered sufficiently to permit sample collection.
16. During well purging, monitor the field indicator parameters (turbidity, temperature, specific conductance, pH, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) every three to five minutes (or as appropriate). The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows:
 - ± 0.1 for pH
 - $\pm 3\%$ for specific conductance (conductivity)
 - ± 10 mV for ORP
 - $\pm 10\%$ for turbidity and DO

Note that turbidity and DO usually require the longest time to achieve stabilization. If the field indicator parameters do not stabilize within 1 hour of the start of purging, but the groundwater turbidity is below the goal of 50 NTU and the values for all other parameters are within 10%, the well can be sampled. If the parameters have stabilized but the turbidity is not in the range of the 50 NTU goal, the pump flow rate should be decreased to a minimum rate of 100 milliliters per minute (mL/min) to reduce turbidity levels as low as possible.
17. Fill in the sample label and cover the label with clear packing tape to secure the label onto the container.
18. After the indicator parameters have stabilized, collect groundwater samples by diverting flow out of the unfiltered discharge tubing into the appropriate labeled sample container. If a flow-through cell is being used to measure field parameters, the flow-through cell should be disconnected after stabilization of the field indicator parameters and prior to groundwater sample collection. Under no circumstances should analytical samples be collected from the discharge of the flow-through cell. When the container is full, tightly screw on the cap.
19. Secure with packing material and store at 4 degrees Celsius ($^{\circ}\text{C}$) on wet ice in an insulated transport container provided by the laboratory.
20. Record the time sampling procedures were completed on the field logs.

21. Place all disposable sampling materials (plastic sheeting, disposable bailers, and health and safety equipment) in appropriately labeled containers. Go to the next well and repeat Step 1 through Step 21 until all wells are sampled.
22. Complete the procedures for packaging, shipping, and handling samples with associated COC forms.

2.2.6 Water Sampling Procedures for Grab Samples

This protocol describes procedures to be used to collect water grab samples using a bailer. The following materials, as required, shall be available during water sampling:

- Disposable Bailer
- PID
- Appropriate health and safety equipment, as specified in the HASP
- Plastic sheeting (for each sampling location)
- New disposable polypropylene rope
- 6-foot rule with gradation in hundredths of a foot
- Appropriate water sample containers
- Appropriate blanks (trip blank supplied by the laboratory)
- Appropriate transport containers (coolers) with ice and appropriate labeling, packing, and shipping materials
- COC forms
- Indelible ink pens

The following 10 steps detail the sampling procedures:

1. Label all sample containers using an appropriate label.
2. Use safety equipment, as required in the HASP.
3. Establish a background reading with the PID and record reading on the field log.
4. Unlock and open the monitoring well or container cover while standing upwind of the opening. Remove container cover and place on plastic sheeting. Insert PID probe in the breathing zone.
5. Obtain the water sample needed for analysis directly from the bailer in the appropriate container and tightly screw on container cap.
6. Secure with packing material and store at 4 °C on wet ice in an insulated transport container provided by the laboratory.
7. Record the time sampling procedures were completed in the field book.

8. Place all disposable sampling materials (plastic sheeting, disposable bailers, and health and safety equipment) in appropriately labeled containers.
9. Complete the procedures for packaging, shipping, and handling with associated COC forms (Section 2.1.3).

2.3 Vapor Sampling

2.3.1 Indoor Air and Ambient Air Sampling

Indoor air and ambient air samples may be collected and analyzed for VOCs using USEPA Method TO-15 (TO-15). The TO-15 method uses SUMMA[®] passivated stainless-steel canisters (typically 1- to 6-liter in size). For purposes of this FSP, procedures for collecting indoor air and ambient air sampling will describe collecting a sample using a 6-liter SUMMA[®] canister.

The equipment required for indoor air/ambient air sample collection is presented below:

- Stainless-steel SUMMA[®] canister (order at least one extra, as vacuum seals may leak in transport or during sample collection).
- Flow controllers with in-line particulate filters and vacuum gauges (flow controllers are pre-calibrated by the laboratory to a specified sample duration [e.g., 8-hour]). Confirm with lab that flow controller is equipped with an in-line particulate filter and pressure gauge (order an extra set for each extra SUMMA[®] canister, if feasible).
- Appropriate-sized open-end wrenches (typically 9/16-inch).
- PID (for use identifying potential background sources during building survey).
- Portable weather meter, if appropriate.
- Box, chair, tripod, or similar to hold canister at breathing zone elevation.
- Teflon[®] sampling tubing may be used to sample abnormal situations (e.g., sumps, where canisters must be hidden). In these situations, ¼-inch Swagelock fittings or other methods may be appropriate to affix tubing to canister. Staff should check this before heading out into the field.
- Building survey and product inventory form (Attachment C), indoor air/ambient air sample collection log (Attachment D), site plans, field notebook, COC, and camera (if photography is permitted at sampling locations).

Care must be taken to minimize the potential for introducing interferences during the sampling event. As such, keep ambient air canisters away from heavy pedestrian traffic areas (e.g., main entranceways, walkways) if possible. If the canisters are not to be overseen for the entire sample duration, precautions should be taken to maintain the security of the sample (e.g., do not place in areas regularly accessed by the public, fasten the sampling device to a secure object using lock and chain, label the canister to indicate it is part of a scientific project, notify local authorities, place the canister in secure housing that does not disrupt the integrity/validity of the sampling event). Sampling personnel should not handle hazardous substances (such as gasoline), permanent marking pens (sharpies), wear/apply fragrances, or smoke cigarettes before and/or during the sampling event.

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Ensure that the flow controller is pre-calibrated to the proper sample collection duration (confirm with laboratory). Sample integrity can be compromised if sample collection is extended to the point that the canister reaches atmospheric pressure. Sample integrity is maintained if sample collection is terminated prior to the target duration and a measurable vacuum (e.g., -7inches Hg) remains in the canister when sample collection is terminated.

The following procedures will be followed during initial building survey for indoor air samples (if applicable):

1. Complete the appropriate building survey form and product inventory form (Attachment C).
2. Survey the area for the apparent presence of items or materials that may potentially produce or emit constituents of concern and interfere with analytical laboratory analysis of the collected sample. Record relevant information on survey form and document with photographs.
3. Record date, time, location, and other relevant notes on the sampling form.
4. Items or materials that contain constituents of concern and/or exhibit elevated PID readings shall be considered probable sources of VOCs. Request approval of the owner or occupant to have these items removed to a structure not attached to the target structure at least 48 hours prior to sampling, if possible.
5. Set a date and time with the owner or occupant to return for placement of SUMMA® canisters.

The following procedures will be followed to prepare the SUMMA® canister and the collect sample:

1. Record the ambient temperature, barometric pressure, wind speed, and relative humidity. Weather data should be obtained from a hand-held weather meter, the local airport's listing, or other suitable weather source (e.g., weatherunderground.com).
2. Choose the sample location in accordance with the sampling plan. If a breathing zone sample is required, place the canister on a ladder, tripod, box, or other similar stand to locate the canister orifice 3 to 5 feet above ground or floor surface. If the canister will not be overseen for the entire sampling period, secure the canisters as appropriate (e.g., lock and chain). Canister may be affixed to wall/ceiling support with nylon rope or placed on a stable surface. In general, areas near windows, doors, air supply vents, and/or other potential sources of "drafts" shall be avoided.
3. Record SUMMA® canister serial number and flow controller number on the sampling log and COC form. Assign sample identification on canister ID tag, and record on the sample collection log (Attachment D), and COC form.
4. Remove the dust cap from the SUMMA® canister. Attach the flow controller with in-line particulate filter and vacuum gauge to the SUMMA® canister with the appropriate-sized wrench. Tighten with fingers first, then gently with the wrench. Use caution not to over tighten fittings.
5. Open the SUMMA® canister valve to initiate sample collection. Record the date and local time (24-hour format) of valve opening on the sample collection log, and COC form. Collection of duplicate samples will include collecting two samples side by side at the same time.

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6. Record the initial vacuum pressure in the SUMMA® canister on the sample log and COC form. If the initial vacuum pressure registers less than -25 inches of Hg, then the SUMMA® canister is not appropriate for use and another canister should be used.
7. Take a photograph of the SUMMA® canister and surrounding area, if possible.
8. Check the SUMMA® canister approximately halfway through the sample duration and note progress on sample logs.

The following procedures will be followed to terminate sample collection:

1. Arrive at the SUMMA® canister location at least 1-2 hours prior to the end of the sampling interval (e.g., 8-hour, 24-hour).
2. Stop collecting the sample when the canister vacuum reaches approximately -7 inches of Hg (leaving some vacuum in the canister provides a way to verify if the canister leaks before it reaches the laboratory) or when the desired sample time has elapsed.
3. Record the final vacuum pressure. Stop collecting the sample by closing the SUMMA® canister valve. Record the date, local time (24-hour format) of valve closing on the sample collection log, and COC form.
4. Remove the particulate filter and flow controller from the SUMMA® canister, reinstall brass cap on canister fitting, and tighten with wrench.
5. Package the canister and flow controller in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canister does not require preservation with ice or refrigeration during shipment.
6. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with string). Complete COC form and place requisite copies in shipping container. Close shipping container and affix custody seal to container closure. Ship to laboratory via overnight carrier (e.g., Federal Express) for analysis.

2.3.2 Sub-Slab Soil Vapor Sampling

Sub-slab soil vapor samples will be collected and analyzed for VOCs using USEPA Method TO-15. The TO-15 method uses SUMMA® passivated stainless-steel canisters (typically 1- to 6-liter in size). Depending on circumstances, sub-slab soil vapor samples will be collected via either a temporary or permanent sampling probe. If the probe will be used for sampling more than once, a permanent sampling probe is recommended.

Sub-slab probe installation should be completed 24 hours in advance or after any indoor air sampling to avoid cross-contamination of indoor air samples.

The following subsection details sub-slab soil vapor probe installation (for both permanent and temporary probes). The procedures for the actual sub-slab soil vapor collection are contained in Section 2.3.2.1.

2.3.2.1 Soil Vapor Probe Installation

Equipment required for the installation of the soil vapor probe is presented below:

- Appropriate PPE (e.g., work gloves, nitrile gloves, knee pads, and PPE required by site specific HASP and the job safety analysis [JSA])
- Heavy duty electric hammer drill (e.g., Bosch or Hilti), ground fault circuit interrupter, and an extension cords rated for amperage of hammer drill)
- ½ inch-diameter and 1½-inch diameter (if installing permanent probe) concrete drill bits for impact drill (drill bit length contingent on slab thickness)
- Hand tools including open-end wrench (typically 9/16-inch), pliers, channel lock pliers, tubing cutter, etc.
- ¼-inch-outside diameter (OD) tubing (Teflon®, nylon, or Teflon®-lined)
- Hydrated bentonite, VOC-free modeling clay that complies with ASTM D4236 (McMaster Carr 6102T11 recommended), or wax to seal drill hole (if installing temporary probe)
- Decontaminated stainless-steel vapor probe (typically ¼-inch OD stainless-steel tubing, ¼-inch Swagelok by ¼-inch Swagelok female coupling [or equivalent], ¼-inch Swagelok cap: if installing permanent probe)
- Extra ¼-inch Swagelok front and back compression sleeves (if installing permanent probe)
- Stainless-steel washers (if installing permanent probe)
- Quick-setting non-shrink grout powder, and disposable cups and spoons for mixing grout (if installing permanent probe)
- Spray bottle with potable water and paper towels
- Teflon® tape
- Whisk broom, dustpan, bottle brush, and shop vacuum with clean fine-particle filter
- Plastic sheeting

Temporary sub-slab soil vapor probes are installed using equipment and procedures that allow the point to be installed quickly and abandoned after an initial sample is collected. If the probe is to be sampled more than once, a permanent sub-slab soil vapor probe is recommended. A permanent sub-slab probe is similar to a temporary probe, but it includes inserting a vapor probe into a concrete slab hole (permanent sub-slab probes may be formed when pouring concrete to construct the building slab or following building construction). The vapor probe is grouted with a quick-setting non-shrink grout powder and equipped with a plug. The cap is removed and a compression fitting nut and ferrules are used to allow collection of a soil vapor sample through Teflon® tubing. Procedures for installing a sub-slab soil vapor probe following building construction are detailed below:

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1. Select a probe location that is free of utilities and safe to drill. The probe location should be installed at a minimum of 5 feet from an exterior wall with a 10-foot preference, if possible.
2. Remove any covering on top of the slab, as needed, and lay down plastic sheeting to keep work area clean. Check to make sure the shop vacuum is working properly and fine concrete dust particles will not pass through filter.
3. Drill a ½-inch-diameter hole into the concrete slab using the electric drill. Do not fully penetrate the slab at this time. Stop drilling approximately 1 inch short of penetrating the slab.
 - a. If a permanent probe is being installed, the ½-inch diameter hole should be drilled within a 1½-inch diameter hole that extends approximately 1½ inches into the slab. This 1½-inch hole is drilled deep enough to permit the top of a permanent coupling (described in Step 10b below) to be set flush with the slab when the ¼-inch tubing is inserted into the ½-inch hole drilled.
4. Use the shop vacuum, bottle brush, and dust broom to clean up the work area and material that may have fallen into and around the drill hole.
5. Advance the ½-inch drill bit the remaining thickness of the slab and approximately 3 inches into the sub-slab material to create an open cavity. Record any observations from the drill cuttings, if possible, regarding approximate soil types and presence or absence of a plastic sub-slab sheet.
6. Use the bottle brush, whisk broom, and dustpan to quickly clean material around and within the hole. The hole should not be left open for any extended length of time to ensure that VOCs below the slab do not migrate into indoor air. Do not use the shop vacuum to clean up the drill hole after the full thickness of the slab has been penetrated.
7. Re-drill the ½-inch hole to ensure it remains clear. This can also be accomplished using a piece of steel rod, sample tubing, or even a piece of heavy wire (coat hanger).
8. Install a temporary sub-slab probe as detailed in Steps 9a-9d below or install a permanent sub-slab probe as detailed in Steps 10a-10g below.
9. Install a temporary sub-slab probe using the procedures below:
 - a. Wrap the tubing with Teflon® tape or modeling clay, to the extent necessary, for a snug fit of tubing and hole.
 - b. Insert the tubing approximately 2 to 3 inches into the slab; tubing should not contact material beneath the slab. Tubing should be capped with clay or other fitting so it does not provide a pathway for vapor movement.
 - c. Prepare a hydrated bentonite mixture and apply bentonite at slab surface around the tubing. Instead of hydrated bentonite, either VOC free modeling clay (McMaster-Carr #6102T11) or wax may be used for the temporary seal around the tubing where it enters the slab.
 - d. Proceed to soil vapor sample collection after waiting a minimum of 1 hour for equilibrium following probe installation.

10. Install a permanent sub-slab probe using the procedures below:

- a. Assemble the sample probe assembly (stainless-steel tubing, stainless-steel Swagelok coupling, Swagelok nut). Teflon® tape should never be used with Swagelok connections.
- b. Using an assembled sample probe assembly, test fit the components so that the proper length of ¼-inch tubing and depth of the 1½-inch hole provides enough space for the stainless-steel coupling. Adjust so that the coupling will lie flush with the slab surface and does not create a tripping hazard.
- c. Wrap the sample probe assembly with Teflon tape, to the extent necessary, for a snug fit of the assembly and hole. Teflon tape or stainless-steel washers can also be used to achieve the proper depth of the sample probe assembly. Ensure that Teflon tape or stainless-steel washers do not interfere with the cement that will be used to permanently fix and seal the sample probe.
- d. Prepare a mixture of nonshrink cement and water according to the manufacturer's directions in a disposable cup using a plastic spoon for mixing.
- e. Cement in the sample probe using a plastic spoon to apply the cement into the annular space between the coupling and the 1½-inch drill hole. Before cementing in the sample probe, moisten the bore hole with the spray bottle to provide better adhesion.
- f. Replace the surface covering (e.g., carpet) if warranted. Sample collection location should be returned to pre-sampling conditions to the extent feasible given the presence of a permanent probe.
- g. All permanent sub-slab sample probes should be allowed to sit and equilibrate for a minimum of 24 hours before proceeding to sample collection.

2.3.2.2 Sub-Slab Soil Vapor Sample Collection

The equipment required for sub-slab soil vapor sample collection is presented below:

- Appropriate PPE (e.g., work gloves, nitrile gloves, knee pads, and PPE required by site specific HASP and the JSA)
- 1, 3, or 6-liter stainless-steel SUMMA® canisters (order at least one extra, if feasible) (batch certified canisters or individual certified canisters as required by the project)
- Flow controllers with in-line particulate filters and vacuum gauges; flow controllers are pre-calibrated to specified sample duration (e.g., 30 minutes, 8 hours, 24 hours) or flow rate (e.g., 200 mL/min); confirm with the laboratory that the flow controller comes with an in-line particulate filter and pressure gauge (order at least one extra, if feasible)
- ¼-inch inner diameter tubing (Teflon®, or similar) and two 3-inch lengths of ¼-inch OD Teflon tubing
- ¼-inch Swagelok by 1/8-inch national pipe thread (NPT) male stainless-steel coupling
- Extra ¼-inch Swagelok front and back compression sleeves and Swagelok fittings.
- Decontaminated stainless-steel Swagelok (or comparable) T-fitting and needle valve for isolation of purge pump

FIELD SAMPLING PLAN

- Stainless-steel duplicate T-fitting provided by the laboratory (if collecting duplicate samples)
- Portable vacuum pump capable of producing very low flow rates (e.g., 100 to 200 mL/min) with vacuum gauge
- Rotameter or an electric flow sensor if vacuum pump does not have an accurate flow gauge (Bios DryCal or equivalent)
- Tracer gas testing supplies
- Appropriate-sized open-end wrench (typically 9/16-inch and ½-inch)
- Tedlar® bag to collect purge air or length of tubing sufficient to vent it outside the structure
- Portable weather meter, if appropriate
- PID
- Quick setting grout or Sika Flex joint sealer to seal abandoned holes (if using a temporary sub-slab probe)
- Sub-slab soil vapor sample collection log (Attachment E), site plans, field notebook, COC, and camera (if photography is permitted at sampling locations)

Once a sub-slab sample probe is installed, the following procedures should be used to collect the sample in a SUMMA® canister.

1. Record the ambient temperature, barometric pressure, wind speed, and relative humidity. Weather data should be obtained from a hand-held weather meter, the local airport's listing, or other suitable weather source (e.g., weatherunderground.com).
2. Assemble the sample train by removing the cap from the SUMMA® canister and connecting the Swagelok T-fitting to the can using a short length of 1/4-inch OD stainless-steel tubing. The flow controller with in-line particulate filter and vacuum gauge is then attached to the T-fitting. The Swagelok two-way valve is connected to the free end of the T-fitting using a short length of ¼-inch OD Teflon tubing.
3. When collecting duplicate or other quality assurance/quality control samples as required by applicable regulations and guidance, couple two SUMMA® canisters using stainless-steel Swagelok duplicate sample T-fitting supplied by the laboratory. Attach flow controller with in-line particulate filter and vacuum gauge to duplicate sample T-fitting provided by the laboratory.
4. Perform a leak-down-test by replacing the nut which secures sample tubing with the cap from the canister. This will create a closed system. Open the canister valve and quickly close it; the vacuum should increase approaching -30 inches Hg. If there are no leaks in the system this vacuum should be held. If vacuum holds proceed with sample collection; if not attempt to rectify the situation by tightening fittings.

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5. Connect the flow controller to the sub-slab sampling probe as follows:
 - a. If connecting to temporary sub-slab sampling probe, attach Teflon sample tubing from the temporary probe to the flow controller using Swagelok fittings.
 - b. If connecting to permanent sub-slab sampling probe, install the male threaded fitting into the sub-slab port and connect the male threaded coupling fitting and the flow controllers using a length of Teflon sample tubing.
6. Connect the two-way valve and the portable purge pump using a length of Teflon® sample tubing.
7. Record on the sample log and COC form the flow controller number with the appropriate SUMMA® canister number.
8. If appropriate, the seal around the soil vapor sampling port and the numerous connections comprising the sampling train will be evaluated for leaks using helium as a tracer gas. The helium tracer gas will be administered according to the methods established in the appropriate guidance documents and Attachment F.
9. Open the two-way valve and purge the soil vapor sampling port and tubing with the portable sampling pump. Purge approximately three volumes of air from the soil vapor sampling port and sampling line using a flow rate of 200 mL/min or less. Purge air will be collected into a Tedlar bag to provide that VOCs are not released into interior spaces. Measure organic vapor levels and tracer gas within the Tedlar bag, as appropriate. Purge volume is calculated by the following equation:

$$V_{\text{purge}} = 3\pi \times R_{\text{inner tubing}}^2 \times L_{\text{tubing}}$$

10. Close the two-way valve to isolate the purge pump.
11. Open the SUMMA® canister valve to initiate sample collection. Record on the sample log (attached) the time sampling began and the canister pressure. If the initial vacuum pressure registers less than - 25 inches of Hg, then the SUMMA® canister is not appropriate for use and another canister should be used. Sampling flow rate should be 200 mL/min or less.
12. Take a photograph of the SUMMA® canister and surrounding area, if possible.
13. Check the SUMMA® canister approximately half way through the sample duration and note progress on sample logs.

The following procedures will be followed to terminate sample collection:

1. Arrive at the SUMMA® canister location at least 1-2 hours prior to the end of the sampling interval (e.g., 8-hour, 24-hour).
2. Stop collecting the sample when the canister vacuum reaches approximately 7 inches of Hg (leaving some vacuum in the canister provides a way to verify if the canister leaks before it reaches the laboratory) or when the desired sample time has elapsed.
3. Record the final vacuum pressure. Stop collecting the sample by closing the SUMMA® canister valve. Record the date, local time (24-hour format) of valve closing on the sample collection log, and COC form.

4. Disconnect sample tubing from sub-slab probe as follows:
 - a. If connected to temporary sub-slab sampling probe, remove tubing and grout the hole in the slab with quick-setting hydraulic cement powder, Sika-Flex, or other material similar to the slab. This step must be done carefully to ensure that the abandoned sampling point does not become a preferential flow pathway.
 - b. If connected to permanent sub-slab sampling probe, disconnect sample tubing from the sample probe and replace flush-mount cap or Swagelok nut.
5. Remove the particulate filter and flow controller from the SUMMA® canister, reinstall brass cap on canister fitting, and tighten with wrench.
6. Package the canister and flow controller in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canister does not require preservation with ice or refrigeration during shipment.
7. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with string). Complete COC form and place requisite copies in shipping container. Close shipping container and affix custody seal to container closure. Ship to laboratory via overnight carrier (e.g., Federal Express) for analysis.
8. Replace the surface covering (e.g., carpet) to the extent practicable. Sample collection location should be returned to pre-sampling conditions.

2.4 Soil Sampling Procedures for Grab Samples

This protocol describes procedures to be used to collect soil grab samples by sampling techniques using an EnCore®, Terra Core® or equivalent methods from on-site soil piles. Additionally, this protocol describes procedures to be used to collect bulk soil samples. The following materials, as required, shall be available during soil sampling:

- Health and safety equipment (as required in the HASP)
- PID
- Disposable soil aliquot sampling device (supplied by laboratory)
- Stainless-steel spatula
- EnCore® Sampler T-Handle
- Resealable-type bags
- Handiwipes or lint-free paper towels
- Field notebook
- Appropriate sample containers depending upon specific methodology (4-oz glass jar, pre-preserved 40 mL vial with septum seal, EnCore®, SoilCore®, or equivalent Sampler)
- Appropriate transport containers (coolers) with water ice and appropriate labeling, packing, and shipping materials

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The following 4 steps detail collecting unpreserved samples:

1. Soil samples are collected directly from the soil pile using a stainless-steel decontaminated spatula.
2. Samples are collected in 4-oz (120 mL) wide-mouth glass jars with screw caps.
3. Wipe the threads of the sample jar with a handwipe or lint-free paper towel, to ensure an adequate seal.
4. Place sample containers in a transportation cooler on ice immediately after collection. Package and label the sample containers following the procedures specified in Section 2.1.3.

The following steps detail using an EnCore® Sampler:

1. Place EnCore® sample container into the EnCore® T-handle.
2. Collect soil sample by pressing the EnCore® sample container into the soil to be collected.
3. Wipe the outside of the EnCore® sample container with a handwipe or lint-free paper towel to ensure an adequate seal.
4. Using the T-handle, cap and lock the EnCore® Sampler for shipment.
5. If low-level VOC analysis is to be performed, repeat Steps 1 through 3 two additional times to collect a total of 3 samples (high-level VOC analysis only requires 1 EnCore® Sampler).
6. Collect additional soil in a 4-oz (120 mL) jar for percent moisture determination.
7. Place sample container in a transportation cooler on ice immediately after collection. Package and label the sample container following the procedures in Section 2.1.3.

The following steps detail using a Terra Core® Sampler:

1. Collect soil sample by pressing the Terra Core® sampler into the soil to be collected. A decontaminated stainless-steel spatula may be used to assist this procedure. The soil plug should be flush with the mouth of the sampler.
2. Wipe the outside of the Terra Core® sampler with a handwipe or lint-free paper.
3. Rotate the middle part of the Terra Core® sampler handle 90° until it is aligned with the slots in the body.
4. Place the mouth of the Terra Core® sampler into the 40 mL vial containing the appropriate preservative and extrude the sample by pushing the plunger down.
5. Quickly cap the 40 mL vial.
6. Repeat procedure for all sample vials until one soil plug has been extruded in each.
7. Extrude 1-2 plugs of soil in to the provided 4-oz (120 mL) jar for percent moisture determination.
8. Place sample container in a transportation cooler on ice immediately after collection. Package and label the sample container following the procedures in Section 2.1.3.

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The following steps detail collection bulk soil samplings using a jar:

1. Collect soil samples by collecting soil from various location with a hand trowel.
2. Combine various soil locations in a bowl and mix soil.
3. Place soil into sample jar, wipe the container with a handiwipe or lint-free paper towel to ensure an adequate seal.
4. Cap the sample jar.
5. Place sample container in a transportation cooler on ice immediately after collection. Package and label the sample container following the procedures in Section 2.1.3.

2.5 Air Monitoring

Air monitoring will be conducted during all intrusive activities and may require a PID and dust meter or only a PID. Specific air monitoring requirements that need to be conducted during intrusive activities are provided in New York State Department of Health's Generic CAMP. The PID will be used to monitor organic vapors in the breathing zone and borehole and to screen samples for analysis.

PID readings will be recorded in the field book during trenching and drilling activities. The instrument will be calibrated at least once each day and more frequently, if needed. A detailed procedure for the PID calibration is included in Section 4.1.

3 INVESTIGATION DERIVED WASTE MANAGEMENT AND STORAGE

Investigation-derived wastes (IDW) will be generated during site activities, which include, but are not limited to, media sampling, dewatering (construction water), and decontamination. IDW may include decontamination liquids, PPE, sorbent materials, purge water, recovered NAPLs, and disposable sampling materials that may have come in contact with potentially impacted materials. IDW will be collected and staged at the point of generation. Waste materials will be analyzed for constituents of concern to evaluate proper disposal methods. Anticipated IDW will be labeled and stored in 55-gallon open-top drums for solids (closed when IDW is not actively being managed) and closed-top poly drum or appropriate bulk containers for water. Disposable equipment (PPE and disposable sampling equipment) typically does not require laboratory analysis.

Minimization of IDW will be considered by the Project Manager and may include techniques such as replacing solvent-based cleaners with aqueous-based cleaners for decontamination of equipment, reuse of equipment (where it can be decontaminated), and sampling techniques that generate little waste.

The procedures for handling IDW are based on the USEPA's Guide to Management of Investigation Derived Wastes (USEPA, 1992). IDW is assumed to be contaminated with the site residuals until analytical evidence indicates otherwise. IDW will be managed to ensure the protection of human health and the environment and will comply with all applicable or relevant and appropriate requirements (ARARs). The following Laws and Regulations on Hazardous Waste Management are possible ARARs for this Site.

- 6 New York Codes, Rules, and Regulations (6 NYCRR) Part 364 "Waste Transporter Permits", Part 371 "Identification and Listing of Hazardous Wastes", and Part 372 "Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities".
- Resource Conservation and Recovery Act 42 USC Part 6901-6987
- Comprehensive Environmental Response, Compensation and Liability Act 42 USC Part 9601-9675
- Superfund Amendments and Reauthorization Act
- DOT Hazardous Materials Transportation

Waste characterization will be conducted in accordance with waste hauler, waste handling facility, and state/federal requirements following the laboratory requirements and methodologies outlined in the QAPP. IDW will be analyzed by methods appropriate for the known constituents that have been historically detected at the Site.

In the event that IDW is characterized as a hazardous waste (as defined in 6 NYCRR Part 371), RCRA and DOT requirements must be followed for packaging, labeling, transporting, storing, and record keeping as described in Title 40 of the Code of Federal Regulations Part (40 CFR) Part 262 and 49 CFR Part 171-178.

These procedures may be varied or changed as required, dependent upon site conditions, equipment limitations, or limitations imposed by the procedure. The ultimate procedure employed will be documented in the project work plans or reports. If changes to the sampling procedures are required due to

unanticipated field conditions, the changes will be discussed with the Project Manager and NYSEG as soon as practicable and documented in the Periodic Review Report.

The following materials, as required, shall be available for IDW handling and storage:

- Appropriate PPE as specified by the HASP
- 55-gallon steel drums, DOT 1A2 or equivalent
- 15/16-inch socket wrench
- Hammer
- Leather gloves
- Drum dolly
- Appropriate drum labels (outdoor waterproof self-adhesive)
- Polyethylene storage tank
- Appropriate labeling, packing, COC forms, and shipping materials
- Indelible ink and/or permanent marking pens
- Plastic sheeting
- Digital camera
- Field Logbook

3.1 Drum Storage

All 55-gallon drums will be stored at a secure, centralized on-site location that is readily accessible for vehicular pick-up. Drums confirmed as, or believed to contain hazardous waste, will be stored over an impervious surface provided with secondary containment. The storage location will, for drums containing liquid, have a containment system that can contain at least the larger of 10% of the aggregate volume of staged materials or 100% of the volume of the largest container. No drum shall be placed directly on the ground. At minimum, all drums shall be placed on wooden pallets or secondary containment pallets (if not already staged in a secondary containment area on a wooden pallet). Drums will be closed during storage and be in good condition in accordance with the USEPA's 1992 Guide to Management of Investigation-Derived Wastes.

3.2 Drum Container Labelling

Drums will be labeled on both the side and lid of the drum using a permanent marking pen. Old drum labels must be removed to the extent possible, descriptions crossed out should any information remain, and new labels affixed on top of the old labels. Other containers used to store various types of waste (polyethylene tanks, roll-off boxes, end-dump trailers, etc.) will be labeled with an appropriate "Waste Container" or "Testing in Progress" label pending characterization. Drums and containers will be labeled as follows:

- Appropriate waste characterization label (Testing in Progress, Hazardous, or Non-Hazardous)
- Waste generator's name (e.g., client name)
- Project name
- Name and telephone number of project manager

- Composition of contents (e.g., used oil, acetone 40%, toluene 60%)
- Media (e.g., solid, liquid)
- Accumulation date (i.e., date the waste is first placed in the container)
- Drum number of total drums as reconciled with the Drum Inventory maintained in the field log book

Immediately upon placing waste into the drum/container, an appropriate waste label will be filled out to include the information specified above and affixed to the container. Containers with waste determined to be non-hazardous will be labeled with a green and white "Non-Hazardous Waste" label over the "Waste Container" label. Containers with waste determined to be hazardous will be stored in an on-site storage area and will be labeled with the "Hazardous Waste" label and affixed over the "Waste Container" label. DOT hazardous class labels must be applied to all hazardous waste containers for shipment off-site to an approved disposal or recycling facility. In addition, a DOT proper shipping name shall be included on the hazardous waste label. The transporter should be equipped with the appropriate DOT placards. However, placarding or offering placards to the initial transporter is the responsibility of the generator per 40 CFR Part 262.33.

3.3 Inspection and Documentation

All IDW will be documented as generated on a Drum Inventory Log maintained in the field log book. The Drum Inventory will record the generation date, type, quantity, matrix and origin (e.g. RW-1 through RW-10, MW-97-7) of materials in every drum, as well as a unique identification number for each drum. The drum inventory will be used during drum pickup to assist with labeling of drums. Digital photographs will be taken upon the initial generation and drumming/staging of waste, and final labeling after characterization to document compliance with labeling and storage protocols, and condition of the container. Evidence of damage, tampering or other discrepancy should be documented photographically.

3.4 Prepare Waste Shipment Documentation (Hazardous and Non-Hazardous)

Waste profiles will be provided to the waste disposal contractor for preparation of a manifest. The manifest will be reviewed and approved by NYSEG or its designated agent. Upon approval of the manifest, NYSEG's agent may sign manifests. Signed copies of the manifests will be returned to NYSEG from the waste disposal contractor.

Different profile numbers will be generated for different matrices or materials. For example, the profile number for disposable equipment will be different than the profile number for purge water. When there are multiple profiles it is critical that the proper label, with the profile number appropriate to a specific material be affixed to the proper containers. A copy of the container inventory will be provided to the waste transporter during pickup and to the facility receiving the waste.

3.5 Satellite Accumulation of Hazardous Waste

Satellite accumulation (SAA) shall mean the accumulation of as much as fifty-five (55) gallons of hazardous waste, or the accumulation of as much as one quart of acutely hazardous waste, in containers

at or near any point of generation where the waste initially accumulates, which is under the control of the operator of the process generating the waste, without a permit or interim status and without complying with the requirements of 40 CFR Part 262.34(a) and without any storage time limit, provided that the generator complies with 40 CFR Part 262.34(c)(1)(i).

If more than 55 gallons of hazardous waste accumulates in the SAA, the generator has three days to move this waste into storage.

Storage recommendations for hazardous waste include:

- Hazardous waste must be stored on a concrete slab (asphalt is acceptable if there are no free liquids in the waste) per 40 CFR Part 265.176.
- Drainage must be directed away from the accumulation area.
- Area must be properly vented.
- Area must be secure.

3.6 Emergency Response and Notifications

Specific procedures for responding to site emergencies will be detailed in the HASP. In the event of a fire, explosion, or other release which could threaten human health outside of the Site or when NYSEG or its agent has knowledge of a spill that has reached surface water, NYSEG or its designated agent must immediately notify the National Response Center (800-424-8802) in accordance with 40 CFR Part 262.34. Other notifications to state agencies may also be necessary. The NYSEG PM will serve as the emergency contact on waste manifests for hazardous waste streams.

4 FIELD INSTRUMENTS

All field-screening equipment will be calibrated immediately prior to each day's use and more frequently, if required. Additional calibration may be required if measurements appear erroneous. The calibration procedures will conform to the manufacturer's standard instructions. Records of all instrument calibration will be maintained by the field personnel. Copies of all of the instrument manuals will be maintained on Site by the field personnel.

4.1 Portable Photoionization Analyzer

The PID will be a MiniRAE 3000 (or equivalent), equipped with a 10.6 electron volt (eV) lamp. The MiniRAE is capable of ionizing and detecting compounds with an ionization potential of less than 10.6 eV. This accounts for up to 73 percent of the VOCs on the Target Compound List. Calibration will be performed according to the following procedures:

1. Turn on the MiniRAE 3000 and monitor the ambient air. If there is any doubt of the air quality, then zero grade gas will be obtained or a charcoal filter will be utilized.
2. Connect the regulator to the span gas cylinder. Hand-tighten the fittings.
3. Open the valve on the gas bag by turning the valve stem fully counterclockwise.
4. Attach the gas bag to the regulator. Hand-tighten the fittings.
5. Turn the regulator knob counterclockwise half a turn to start the gas flow.
6. Fill the gas bag half full and then close the regulator fully clockwise to turn off the flow of gas.
7. Fill the gas bag and then turn the valve clockwise.
8. Press "MODE" and "N" at the same time to enter the set-up screens. To cycle through the screens press "MODE." Press "Y" for span cal and "Y" again for zero point. Press "Y" to set the zero point.
9. When screen displays "CAL GAS" press "Y" and calibrate the unit with isobutylene calibration gas.
10. Press and hold "MODE" for a few seconds and the display will return to normal screening mode.
11. After 7 hours of use, recharge the battery pack. Record the time the battery pack was charged.

Record the date, time, your initials, calibration gas, and concentration on the PID calibration log in the HASP.

4.2 Water Level Meter and Dual Phase Oil-Water Level Indicator

The water level meter and dual-phase oil-water level indicator will be checked once to a standard to assess if the meter has been correctly calibrated by the manufacturer or vendor. If the markers are incorrect, the meter will be sent back to the manufacturer or vendor.

4.3 Water Quality Meter

The water-quality (temperature/pH/specific conductivity/ORP/turbidity/dissolved oxygen) meter and flow-through measurement cell will be one of the following or equivalent:

- YSI 6-Series Multi-Parameter Instrument
- Hydrolab Series 3 or Series 4a Multiprobe and Display
- Horiba U-10 or U-22 Water Quality Monitoring System

Water quality meters will be calibrated daily prior to use, and after very high or low readings. Calibration and maintenance will be conducted in accordance with the manufacturer's specifications. Calibration and maintenance information will be recorded in the field log book.

4.4 Turbidity Meter

The turbidity meter will be a LaMotte 2020 (or equivalent) and will be calibrated daily prior to use. Calibration and maintenance will be conducted in accordance with the manufacturer's specifications. Calibration and maintenance information will be recorded in the field log book.

4.5 Flow Controller and SUMMA Canister

The flow controller and the SUMMA[®] canister will be provided by the laboratory and are frequently susceptible to failure. It is recommended that extra canisters and flow controllers are requested from the laboratory to ensure that there is sufficient on-site equipment in case of an equipment failure. If possible, the equipment should be shipped two to three days before the scheduled start of the sampling event so that all materials can be checked and replacements can be ordered as needed.

Ensure that the flow controllers are pre-calibrated to the proper sample collection duration (confirm with laboratory). Sample integrity can be compromised if sample collection is extended to the point that the canister reaches atmospheric pressure. Sample integrity is maintained if sample collection is terminated prior to the target duration and a measurable vacuum (e.g., -7 inches Hg) remains in the canister when sample collection is terminated. Ensure that there is still measurable vacuum in the SUMMA[®] after sampling. Sometimes the gauges sent from labs have offset errors, or they stick. It is a good practice to lightly tap the pressure gauge with your finger before reading it to make sure it is not stuck.

Many times, the pressure gauges sent from labs have large offset errors, or the gauge needle does not move freely in response to changes in vacuum. For the most precise pressure readings, consider using a separate, more sensitive, device to check pressure at the beginning of the sampling period in a clean atmosphere. This should be done without moving a significant flow into the canister – for example using a pressure gauge on a dead-end leg. If used, this device must be tested beforehand to confirm that it does not introduce contaminants to the SUMMA[®] canister during pressure checks.

4.6 Dust Monitor

The dust monitor will be an MIE DataRAM (or equivalent) and will be calibrated at the start of each day of use. Calibration and maintenance of the dust monitor will be conducted in accordance with the manufacturer's specifications. The calibration data will be recorded in field log book.

ATTACHMENT A

Well Integrity Assessment Form

WELL INTEGRITY ASSESSMENT FORM

Site Name: _____

Well I.D.: _____

Date: _____

(For each item, circle the appropriate response or fill in the blank)

Well I.D. Clearly Marked: YES NO

Well Completion: FLUSH MOUNT ABOVE-GRADE STANDPIPE

Lockable Cover: YES NO DAMAGED (Describe below)

Lock Present: YES NO ADDED Key Brand/Number: _____

Measuring Point Marked: YES NO ADDED

Well Riser Diameter (inches): _____

Well Riser Type: PVC Stainless Steel Other (Describe) _____

Surface Condition

Cement Intact: YES NO (Describe below)

Curb Box/Well Cover Present: YES NO DAMAGED (Describe below)

All Bolts Present: YES NO (Describe below) NOT APPLICABLE

Ground Surface Slopes

Away from Well YES NO (Describe below)

Well Condition

Well Cap: PVC Slip Cap Pressure-fit Cap None

Well Vent: Slot Cut in Riser Vent Hole in Cap None Not Applicable (Flush Mount Well)

Reported Well Riser Stickup (feet): _____ (use negative number if below grade)

Measured Well Riser Stickup (feet): _____ (use negative number if below grade)

Depth to Water (feet from Top of Well Riser): _____ -or- DRY

Reported Total Depth of Well (feet below grade): _____

Measured Total Depth of Well (feet below grade): _____

Well Obstructed: YES NO If yes, list depth in feet from Top of Well Riser: _____

Well Bottom: SOFT (contains sediment) FIRM (no sediment)

Recommendations

Repair Concrete/Surface Completion: YES NO If yes, list date performed: _____

Re-Survey Well: YES NO If yes, list date performed: _____

Remove Sediment and Re-Measure Depth: YES NO If yes, list date performed: _____

Replace Well Cap: YES NO If yes, list date performed: _____

Replace Bolts: YES NO If yes, list date performed: _____

Replace Lock: YES NO If yes, list date performed: _____

Other/Miscellaneous Observations:

Inspector(s): _____

ATTACHMENT B

Groundwater Sampling Log

ATTACHMENT C

Building Survey and Product Inventory Form

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name _____ Date/Time Prepared _____

Preparer's Affiliation _____ Phone No. _____

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors _____ Building age _____

Is the building insulated? Y / N How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement	
1 st Floor	
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?	Y / N
b. Does the garage have a separate heating unit?	Y / N / NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y / N / NA Please specify
d. Has the building ever had a fire?	Y / N When?
e. Is a kerosene or unvented gas space heater present?	Y / N Where?
f. Is there a workshop or hobby/craft area?	Y / N Where & Type?
g. Is there smoking in the building?	Y / N How frequently?
h. Have cleaning products been used recently?	Y / N When & Type?
i. Have cosmetic products been used recently?	Y / N When & Type?

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____
- l. Have air fresheners been used recently? Y / N When & Type? _____
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building?

Y / N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

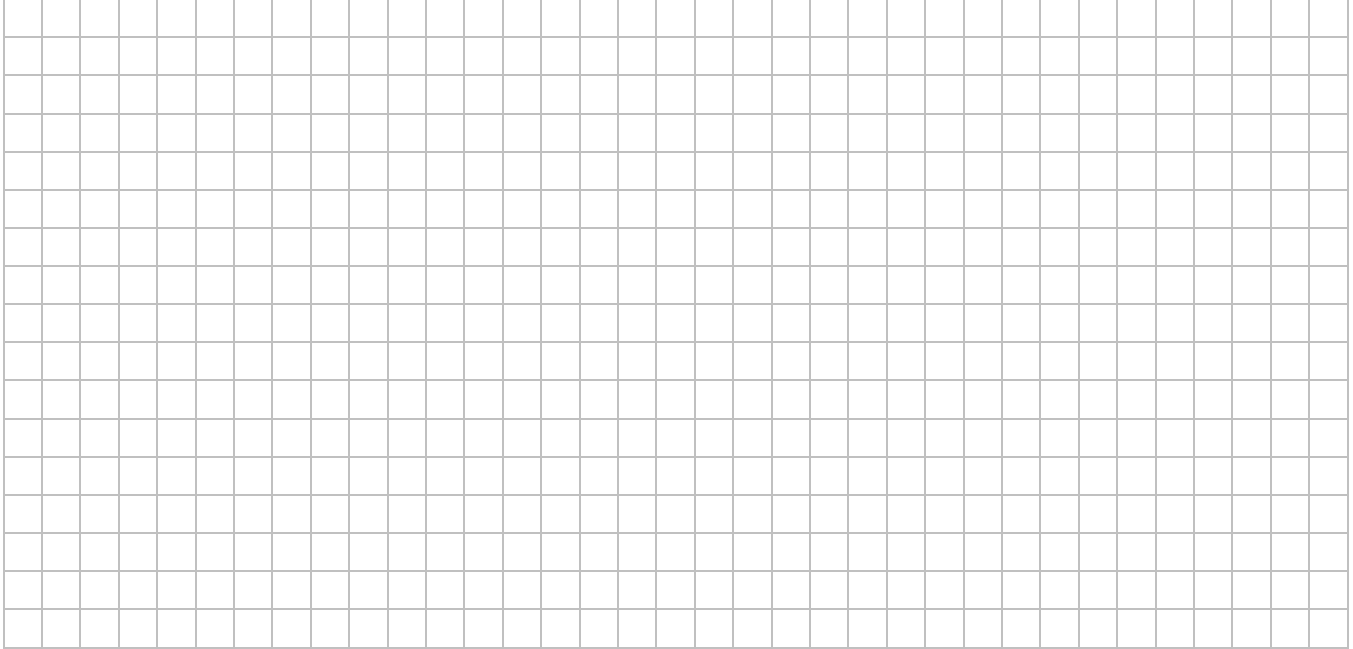
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

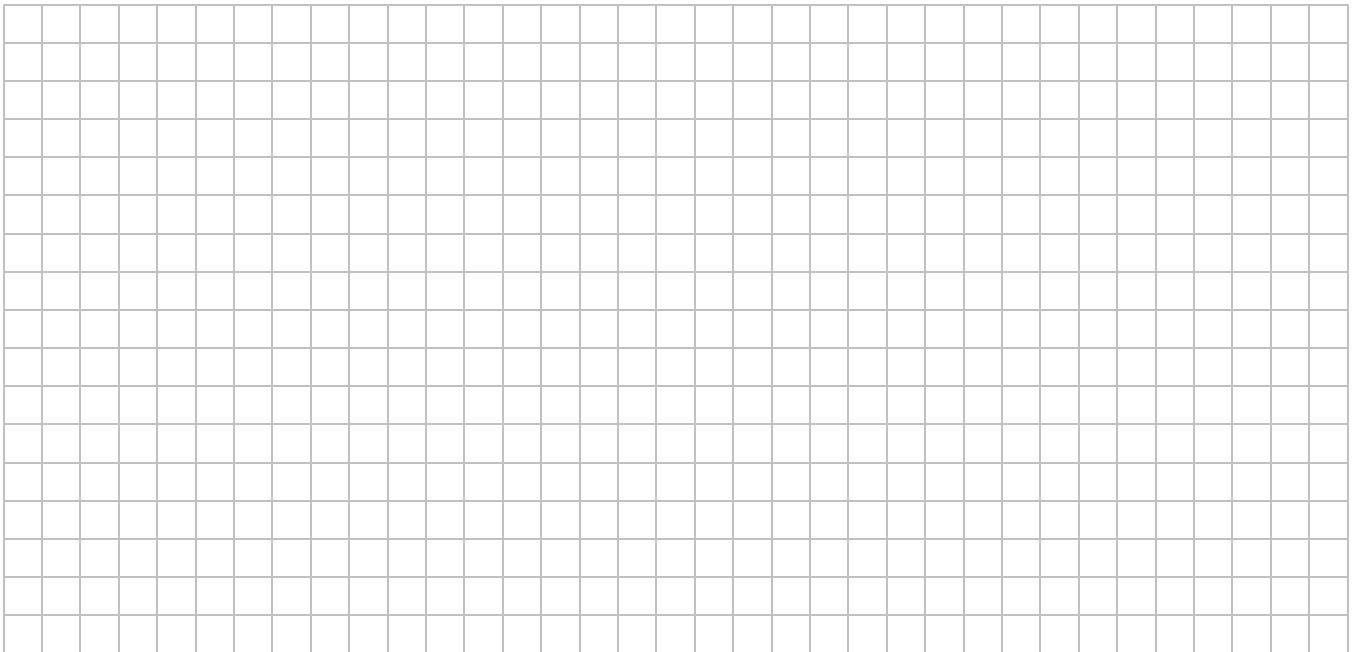
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



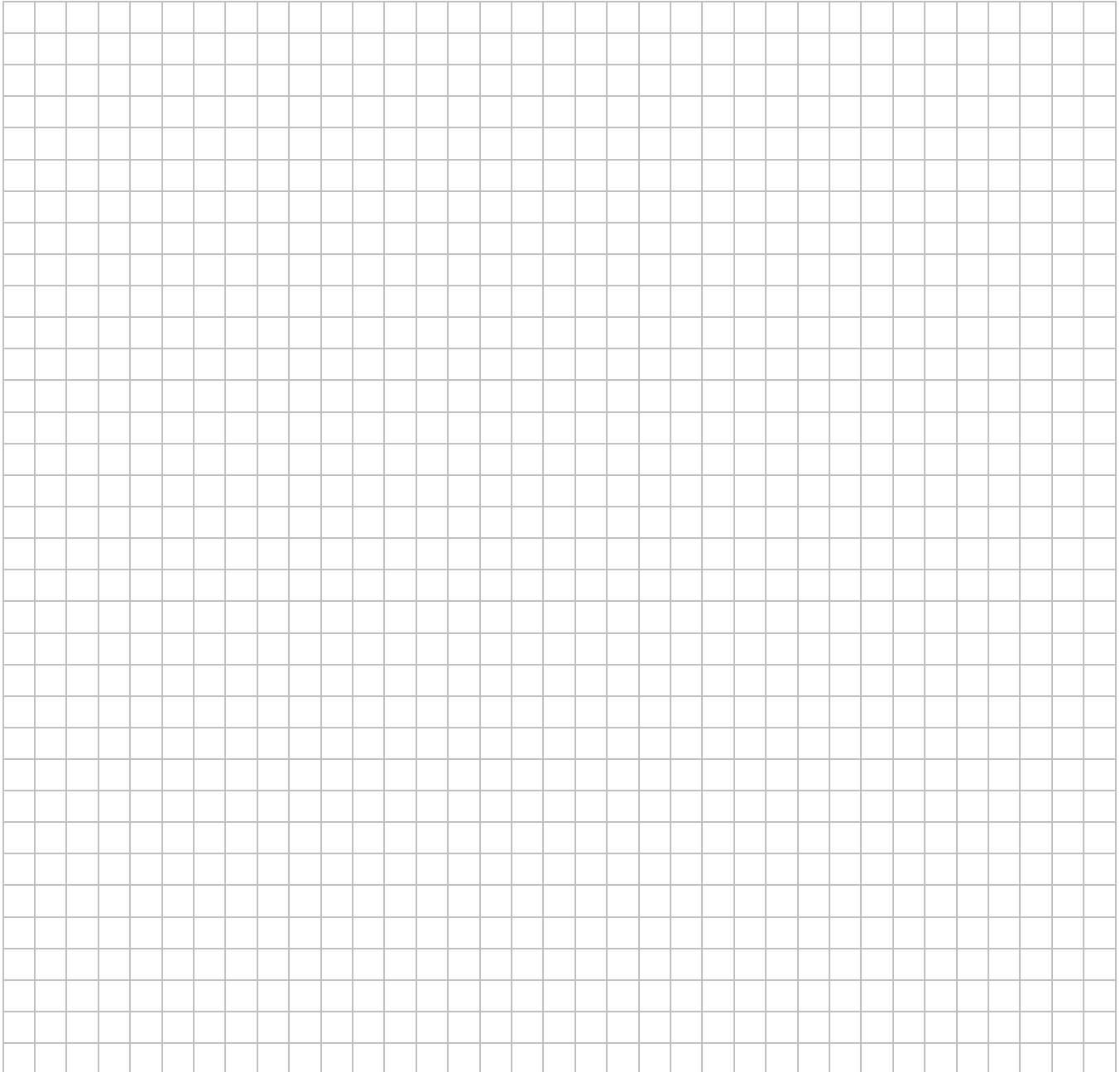
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

ATTACHMENT D

Indoor Air/Ambient Air Sample Collection Log



Indoor/Ambient Air Sample Collection Log

Sample ID:

Client:		Date/Day:	
Project:		Sample Intake Height:	
Location:		Subcontractor:	
Project #:		Miscellaneous Equipment:	
Samplers:			
Coordinates:		Time On/Off:	
Outdoor/Indoor:		Subcontractor:	

Instrument Readings:

Time	Canister Pressure (inches Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (ft/min)	Barometric Pressure	PID (ppb) / (ppm)

SUMMA Canister Information

Size (circle one): 1 L 6 L

Canister ID: _____

Flow Controller ID: _____

General Observations/Notes:

Photos:
Initial Digital reading pre-sample:
Final Digital reading following sample collection:

ATTACHMENT E

Sub-Slab Soil Vapor Sample Collection Log



Sub-Slab Soil-Gas Sample Collection Log

Sample ID:

Client:		Date/Day:	
Project:		Weather:	
Location:		Temperature:	
Project #:		Wind Speed/Direction:	(ft/min) / (mph)
Samplers:		Subcontractor:	
Logged By:		Equipment:	
Background PID Ambient Air Reading:		Moisture Content of Sampling Zone (circle one):	NA Dry / Moist
Sampling Depth:			
Probe (circle one):	Permanent / Temporary	Approximate Volume of Sampling Train::	
Time of Collection:	Start: Finish:	Approximate Purge Volume:	

Nearby Groundwater Monitoring Wells/Water Levels:

Well ID	Depth to Groundwater (feet)

SUMMA Canister Information

Size (circle one): 1 L 6 L

Canister ID: _____

Flow Controller ID: _____

Tracer Gas Information (if applicable)

Tracer Gas: _____ Helium / NA

Canister Pressure (inches Hg):

Reported By Laboratory	Measured Prior to Sample Collection	Measured Following Sample Collection
	Digital: / Analog:	Digital: / Analog:

Tracer Gas Concentration (if applicable):

Measured from Soil Vapor Tubing		Measured in 'Concentrated' Area		
Post Purge	Post Sample	Prior to Purging	Post Purging	Post Sampling

General Observations/Notes:

Photo ID:
Final Reading:
Differential Pressure:

Approximating One-Well Volume (for purging temporary points):

Each foot of 1/4-inch tubing will have a volume of approximately 10 mL.

ATTACHMENT F

Tracer Gas Procedures

TGI - ADMINISTERING HELIUM TRACER GAS LEAK TEST

Rev: 2

Rev Date: December 5, 2018



VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
1	October 14, 2016			Mitch Wacksman
2	December 5, 2018		- Revised purge rate to be consistent with other vapor intrusion TGIs - Add Health and Safety Considerations section	Mitch Wacksman

APPROVAL SIGNATURES

Prepared by:



Eric Cathcart

12/5/2018

Date:

Technical Expert Reviewed by:



Mitch Wacksman (Technical Expert)

12/5/2018

Date:

1 INTRODUCTION

This document describes general and/or specific procedures, methods, actions, steps, and considerations to be used and observed by Arcadis staff when performing work, tasks, or actions under the scope and relevancy of this document. This document may describe expectations, requirements, guidance, recommendations, and/or instructions pertinent to the service, work task, or activity it covers.

It is the responsibility of the Arcadis Certified Project Manager (CPM) to provide this document to the persons conducting services that fall under the scope and purpose of this procedure, instruction, and/or guidance. The Arcadis CPM will also ensure that the persons conducting the work falling under this document are appropriately trained and familiar with its content. The persons conducting the work under this document are required to meet the minimum competency requirements outlined herein, and inquire to the CPM regarding any questions, misunderstanding, or discrepancy related to the work under this document.

This document is not considered to be all inclusive nor does it apply to all projects. It is the CPM's responsibility to determine the proper scope and personnel required for each project. There may be project- and/or client- and/or state-specific requirements that may be more or less stringent than what is described herein. The CPM is responsible for informing Arcadis and/or Subcontractor personnel of omissions and/or deviations from this document that may be required for the project. In turn, project staff are required to inform the CPM if or when there is a deviation or omission from work performed as compared to what is described herein.

In following this document to execute the scope of work for a project, it may be necessary for staff to make professional judgment decisions to meet the project's scope of work based upon site conditions, staffing expertise, regulation-specific requirements, health and safety concerns, etc. Staff are required to consult with the CPM when or if a deviation or omission from this document is required that has not already been previously approved by the CPM. Upon approval by the CPM, the staff can perform the deviation or omission as confirmed by the CPM.

2 SCOPE AND APPLICATION

When collecting subsurface vapor samples as part of a vapor intrusion evaluation, a tracer gas serves as a quality assurance/quality control method to verify the integrity of the vapor port seal and the numerous connections comprising the sample train. Without the use of a tracer, verification that a soil vapor sample has not been diluted by ambient or indoor air is difficult.

This Technical Guidance Instruction (TGI) focuses on using helium as a tracer gas. It should be noted that a field helium meter could register a false positive if methane is present in the subsurface. In this case an alternative method should be employed (i.e., water dam test). The protocol for using a tracer gas includes the following basic steps: (1) enrich the atmosphere in the immediate vicinity of the sample port where ambient air could enter the sampling train during sampling with the tracer gas; and (2) measure a vapor sample from the sample tubing for the presence of elevated concentrations (> 10%) of the tracer. A plastic pail, bucket, garbage can or even a plastic bag can serve as a shroud to keep the tracer gas in contact with the port during the testing.

There are two basic approaches to testing for the tracer gas:

1. Include the tracer gas in the list of target analytes reported by the laboratory; and/or
2. Use a portable monitoring device to analyze a sample of soil vapor for the tracer prior to sampling for the compounds of concern. (Note that tracer gas samples can be collected via syringe, Tedlar bag, etc. They need not be collected in SUMMA® canisters or minicans)

This TGI focuses on monitoring helium using a portable sampling device, although helium can also be analyzed by the laboratory along with other volatile organic compounds (VOCs). Real-time tracer sampling allows the investigator to confirm the integrity of the port seals prior to formal sample collection.

During the initial stages of a subsurface vapor sampling program, tracer gas samples should be collected at each of the sampling points. If the results of the initial samples indicate that the port seals are adequate, the Project Manager can consider reducing the number of locations at which tracer gas samples are used in future monitoring rounds. At a minimum, at least 10% of the subsequent samples should be supported with tracer gas analyses. When using permanent soil vapor points as part of a long-term monitoring program, the port should be tested prior to the first sampling event. Tracer gas testing of subsequent sampling events may often be reduced or eliminated unless conditions have changed at the site. Soil gas port integrity should certainly be rechecked with Tracer gas if land clearing/grading activities, freeze thaw cycles, or soil desiccation may have occurred. Points should also be rechecked if more than 2 years have elapsed since the last check of that port.

3 PERSONNEL QUALIFICATIONS

Arcadis field sampling personnel will have current health and safety training, including 40-hour HAZWOPER training, site supervisor training, site-specific training, first aid, and cardiopulmonary resuscitation (CPR), as needed. Arcadis field sampling personnel will be competent in the relevant procedures and possess the required skills and experience necessary to successfully complete the desired field work. Arcadis personnel responsible for directing tracer gas testing must have previous experience conducting similar tests without direct supervision.

4 EQUIPMENT LIST

The equipment required to conduct a helium tracer gas test is presented below:

- Appropriate PPE for site (as required by the Health and Safety Plan)
- Helium (laboratory grade)
- Regulator for helium tank
- Shroud (plastic bucket, garbage can, plastic bag, etc.)
 - o The size of the shroud should be sufficient to fit over the sample port. It is worth noting that using the smallest shroud possible will minimize the volume of helium needed; this may be important when projects require a large number of helium tracer tests.

- o The shroud will need to have three small holes in it. These holes will include one on the top (to accommodate the sample tubing), and two on the side (one for the helium detector probe, and one for the helium line).
 - o The shroud should ideally enclose the sample port and as much as possible of the sampling train.
- Helium detector capable of measuring from 1 - 100% (Dielectric MGD-2002, Mark Model 9522, or equivalent)
- Tedlar bag
- Seal material for shroud (rubber gasket, VOC-free modeling clay, bentonite, etc.) to keep helium levels in shroud high in windy conditions. Although the sealing material is not in direct contact with the sample if leakage does not occur, sealing materials with high levels of VOC emissions should be avoided, since they could contaminate a sample if a leak occurs.
- Sample logs
- Field notebook

5 CAUTIONS

Helium is an asphyxiant! Be cautious with its use indoors! Never release large volumes of helium within a closed room!

Field sampling equipment must be carefully handled to minimize the potential for injury and the spread of hazardous substances. All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. Field staff should review the attachment on safely handling compressed gas cylinders prior to commencing field work.

Compressed gas cylinders should be handled with caution; see attachment on the use and storage of compressed gasses before beginning field work.

Care should be taken not to pressurize the shroud while introducing helium. If the shroud is completely air tight and the helium is introduced quickly, the shroud can be over-pressurized and helium can be pushed into the ground. Provide a relief valve or small gap where the helium can escape.

Because minor leakage around the port seal should not materially affect the usability of the soil vapor sampling results, the mere presence of the tracer gas in the sample should not be a cause for alarm. Consequently, portable field monitoring devices with detection limits in the low ppm range are more than adequate for screening samples for the tracer. If high concentrations (> 10%) of tracer gas are observed in a sample, the port seal should be enhanced and fittings within the sampling train should be checked and/or tightened to reduce the infiltration of ambient air and the tracer test readministered. If the problem cannot be rectified, a new sample point should be installed or an alternate sampling train used.

6 HEALTH AND SAFETY CONSIDERATIONS

All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. Field sampling must be carefully performed to minimize the potential for injury and the spread of hazardous substances.

Soil Vapor sampling is often done on the ground with workers on their knees. Knee pads or a large pad can be used under the entire sample area (i.e. a large folded box). This will protect the worker's knees and the sampling equipment from touching the potentially impacted ground (i.e. asphalt parking lot with car oil stains).

The metal on metal fittings often create small metal splinters, so always used gloves when handling the canisters, fittings, valves, etc. Do not blow the splinters off towards other workers

7 PROCEDURE

The helium tracer test can be conducted when using temporary or permanent sampling points and inside or outside a facility. A visual of an example helium tracer gas test equipment set up is included as Figure 1.

1. Attach Teflon or nylon (Nylaflow) sample tubing to the sample point. This can be accomplished utilizing a number of different methods depending on the sample install (i.e., Swage-Lok or comparable fittings).
2. Place the shroud over the sample point and tubing.
3. Pull the tubing through hole in top of shroud. Seal opening at top of shroud with VOC free modeling clay.
4. Place weight on top of shroud to help maintain a good seal with the ground.
5. Insert helium tubing and helium detector probe into side of shroud. Seal both with modeling clay to prevent leaks.
6. Fill shroud with helium. Fill shroud slowly, allowing atmospheric air to escape either by leaving a gap where the shroud meets the ground surface or by providing a release valve on the side of the shroud. Do not pressurize the shroud!
7. Use the helium detector to monitor helium concentration within the shroud from the lowest hole drilled in the shroud (bottom of the shroud nearest where the sample tubing intersects the ground). Helium should be added until the environment inside the shroud has > 40% helium.
8. Purge the sample point through the sample tubing into a Tedlar bag using a syringe equipped with a three-way leur lock valve. The purge rate should at least match the sample collection rate but not exceed 200 ml/min. Test the air in the Tedlar bag for helium using portable helium detector. If the point is free of leaks there should be very low helium in the purge air from the soil. The natural concentration of helium in the atmosphere is 0.00052% by volume and there are few if any natural sources of helium to soil gas.

9. If > 10% of the amount of helium present in the shroud is noted in purge air, rectify issues with the seal at the sample port and repeat the testing procedure. If the seal cannot be fixed, reinstall sample point.
10. Monitor and record helium level in shroud before, during and after tracer test.
11. Monitor and record helium level in purge exhaust.
12. At successful completion of tracer test and sample point purging, the soil vapor sample can be collected (if the helium shroud must be removed prior to sample collection be mindful not disturb the sample tubing and any established seals).

8 WASTE MANAGEMENT

No specific waste management procedures are required.

9 DATA RECORDING AND MANAGEMENT

Measurements will be recorded on the sample logs at the time of measurement with notations of the project name, sample date, sample start and finish time, sample location, and the helium concentrations in both the shroud and the purge air before, during, and after tracer testing. Any problems encountered should also be recorded in the field notes.

10 QUALITY ASSURANCE

Conduct quality assurance as required by the project-specific work plan and/or Quality Assurance Project Plan (QAPP).

11 REFERENCES

New Jersey Department of Environmental Protection (NJDEP). 2018. Vapor Intrusion Technical Guidance. January.

New York Department of Health. 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October.

United States Environmental Protection Agency (USEPA). 2015. OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. June

ATTACHMENT

Compressed Gases – Use and Storage

In general, a compressed gas is any material contained under pressure that is dissolved or liquefied by compression or refrigeration. Compressed gas cylinders should be handled as high- energy sources and therefore as potential explosives and projectiles. Prudent safety practices should be followed when handling compressed gases since they expose workers to both chemical and physical hazards.

Handling

- Safety glasses with side shields (or safety goggles) and other appropriate personal protective equipment should be worn when working with compressed gases.
- Cylinders should be marked with a label that clearly identifies the contents.
- All cylinders should be checked for damage prior to use. Do not repair damaged cylinders or valves. Damaged or defective cylinders, valves, etc., should be taken out of use immediately and returned to the manufacturer/distributor for repair.
- All gas cylinders (full or empty) should be rigidly secured to a substantial structure at 2/3 height. Only two cylinders per restraint are allowed in the laboratory and only soldered link chains or belts with buckles are acceptable. Cylinder stands are also acceptable but not preferred.
- Handcarts shall be used when moving gas cylinders. Cylinders must be chained to the carts.
- All cylinders must be fitted with safety valve covers before they are moved.
- Only three-wheeled or four-wheeled carts should be used to move cylinders.
- A pressure-regulating device shall be used at all times to control the flow of gas from the cylinder.
- The main cylinder valve shall be the only means by which gas flow is to be shut off. The correct position for the main valve is all the way on or all the way off.
- Cylinder valves should never be lubricated, modified, forced, or tampered with.
- After connecting a cylinder, check for leaks at connections. Periodically check for leaks while the cylinder is in use.
- Regulators and valves should be tightened firmly with the proper size wrench. Do not use adjustable wrenches or pliers because they may damage the nuts.
- Cylinders should not be placed near heat or where they can become part of an electrical circuit.
- Cylinders should not be exposed to temperatures above 50 °C (122 °F). Some rupture devices on cylinders will release at about 65 °C (149 °F). Some small cylinders, such as lecture bottles, are not fitted with rupture devices and may explode if exposed to high temperatures.
- Rapid release of a compressed gas should be avoided because it will cause an unsecured gas hose to whip dangerously and also may build up enough static charge to ignite a flammable gas.

- Appropriate regulators should be used on each gas cylinder. Threads and the configuration of valve outlets are different for each family of gases to avoid improper use. Adaptors and homemade modifications are prohibited.
- Cylinders should never be bled completely empty. Leave a slight pressure to keep contaminants out.

Storage

- When not in use, cylinders should be stored with their main valve closed and the valve safety cap in place.
- Cylinders must be stored upright and not on their side. All cylinders should be secured.
- Cylinders awaiting use should be stored according to their hazard classes.
- Cylinders should not be located where objects may strike or fall on them.
- Cylinders should not be stored in damp areas or near salt, corrosive chemicals, chemical vapors, heat, or direct sunlight. Cylinders stored outside should be protected from the weather.

Special Precautions

Flammable Gases

- No more than two cylinders should be manifolded together; however, several instruments or outlets are permitted for a single cylinder.
- Valves on flammable gas cylinders should be shut off when the laboratory is unattended and no experimental process is in progress.
- Flames involving a highly flammable gas should not be extinguished until the source of the gas has been safely shut off; otherwise it can reignite causing an explosion.

Acetylene Gas Cylinders

- Acetylene cylinders must always be stored upright. They contain acetone, which can discharge instead of or along with acetylene. Do not use an acetylene cylinder that has been stored or handled in a nonupright position until it has remained in an upright position for at least 30 minutes.
- A flame arrestor must protect the outlet line of an acetylene cylinder.
- Compatible tubing should be used to transport gaseous acetylene. Some tubing like copper forms explosive acetylides.

Lecture Bottles

- All lecture bottles should be marked with a label that clearly identifies the contents.
- Lecture bottles should be stored according to their hazard classes.
- Lecture bottles that contain toxic gases should be stored in a ventilated cabinet.
- Lecture bottles should be stored in a secure place to eliminate them from rolling or falling.
- Lecture bottles should not be stored near corrosives, heat, direct sunlight, or in damp areas.

- To avoid costly disposal fees, lecture bottles should only be purchased from suppliers that will accept returned bottles (full or empty). Contact the supplier before purchasing lecture bottles to ensure that they have a return policy.
- Lecture bottles should be dated upon initial use. It is advised that bottles be sent back to the supplier after one year to avoid accumulation of old bottles.

APPENDIX H

Quality Assurance Project Plan



NYSEG

QUALITY ASSURANCE PROJECT PLAN

Dansville Manufactured Gas Plant Site
Dansville, Livingston County, New York
Site No. 8-26-012

November 2022

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a complex, angular form. A thin white line runs diagonally through the shape, and a thin white horizontal line runs across the page, intersecting the shape.

QUALITY ASSURANCE PROJECT PLAN

Dansville Manufactured Gas Plant Site

Prepared for:

NYSEG

Prepared by:

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Date:

November 2022

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ATTACHMENT

A EQuIS™ SOP

ACRONYMS AND ABBREVIATIONS

ASP	Analytical Services Protocol
COC	chain of custody
DQO	data quality objective
DUSR	Data Usability Summary Report
EDD	electronic data deliverable
EWP	Excavation Work Plan
FSP	Field Sampling Plan
GC/MS	gas chromatography/mass spectrometry
GIS	Geographic Information System
HazMat	hazardous material
IDW	investigation-derived waste
LCS	laboratory control sample
MDL	method detection limit
MGP	manufactured gas plant
MS	matrix spike
MSD	matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
NYSEG	New York State Electric and Gas
OSHA	Occupational Safety and Health Administration
PM	Project Manager
PPE	personal protective equipment
QA	quality assurance
QAC	Quality Assurance Coordinator
QAPP	Quality Assurance Project Plan
QC	quality control
RL	reporting limit
RPD	relative percent difference
SDG	sample delivery group
Site	New York State Electric and Gas Dansville Manufactured Gas Plant Site located in Dansville, Livingston County, New York

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SOP	standard operating procedure
SMP	Site Management Plan
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1 INTRODUCTION

This Quality Assurance Project Plan (QAPP) was prepared for the New York State Electric and Gas Corporation (NYSEG) Dansville Manufactured Gas Plant (MGP) site located in Dansville, Livingston County, New York (Site). The QAPP presents the analytical methods and procedures that will be used for data collection and analysis.

This QAPP, along with the Field Sampling Plan (FSP) are intended to guide all sampling, measurement, and other field and laboratory measurement activities conducted as part of the Site Management Plan (SMP) and the Excavation Work Plan (EWP). This QAPP contains laboratory analysis procedures and quality control (QC) methods to be used to characterize environmental media as needed for future site monitoring. The specific analytes for measurement will be dependent upon a specific need but are anticipated to include volatile organic compounds (VOCs), semi-volatile organic compounds, and cyanide.

This QAPP is applicable to the SMP approved as of the date of this document. To the extent that other work plans are written and approved relevant to this QAPP, those activities will be incorporated by reference to the scope of the QAPP herein.

This QAPP was prepared in a manner consistent with the following reference and guidance documents:

- United States Environmental Protection Agency (USEPA) Requirements for Quality Assurance Project Plans, EPA-QA/R-5 (USEPA, 2001) (<https://www.epa.gov/quality/agency-wide-quality-system-documents>).
- USEPA Guidance for Quality Assurance Project Plans, EPA-QA/G-5 (USEPA, 2002a) (<https://www.epa.gov/quality/agency-wide-quality-system-documents>).
- USEPA Guidance on Systematic Planning Using the Data Quality Objectives Process, EPA-QA/G-4 (USEPA, 2006) (<https://www.epa.gov/quality/agency-wide-quality-system-documents>).

Information contained in this QAPP has been organized into the following sections:

Section	Content
Project Management	
1	Introduction
2	Project Organization
3	Data Quality Objectives and Criteria for Measurement Data
4	Special Training Requirements/Certification
5	Documentation and Records

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Section	Content
Measurement/Data Acquisition	
6	Sampling Process Design
7	Sampling Method Requirements
8	Sample Handling and Custody Requirements
9	Analytical Method Requirements
10	Quality Control Requirements
11	Instrument/Equipment Testing, Inspection and Maintenance Requirements
12	Instrument Calibration and Frequency
13	Inspection/Acceptance Requirements for Supplies and Consumables
14	Data Management
Assessment/Oversight	
15	Assessment and Response Actions
16	Reports to Management
Data Validation and Usability	
17	Data Reduction and Review
18	Data Validation and Verification
19	Reconciliation with User Requirements
20	References

Details on each of the subjects listed above are provided in the subsequent sections.

2 PROJECT ORGANIZATION

The activities to be completed under this QAPP will require integration of personnel from the positions identified below, collectively referred to as the project team. A detailed description of the responsibilities of each member of the project team is presented below.

2.1 Project Organization

The QAPP will be executed by a project team assigned per the specific work plan. The project team will perform sampling activities and will evaluate data and prepare the deliverables as specified in the SMP. Project direction will be provided with lead regulatory oversight by the New York State Department of Environmental Conservation (NYSDEC). A list of key project management personnel is provided in Table 1.1 of the SMP.

2.2 Team Member Responsibilities

The responsibilities of the various team members are summarized below.

2.2.1 NYSEG

Project Manager (PM)

Responsibilities and duties include:

- Provide overall direction of site actions.
- Direct Consultant(s) and Contractors/Subcontractors.
- Review work products, including data, memoranda, letters, reports, and all other documents transmitted to the NYSDEC.

2.2.2 Environmental Consultant

Project Manager/Assistant Project Manager

Responsibilities and duties include:

- Manage and coordinate the project as defined in the SMP and any other related work plans with an emphasis on adhering to the objectives of the site activities.
- Review documents prepared by subcontractors.
- Verify that corrective actions are taken for deficiencies cited during any audits of site activities.

Task Managers

The sampling components will be managed by various Task Managers. Duties of each Task Manager include, as appropriate:

- Manage relevant day-to-day activities.
- Develop, establish, and maintain files on relevant site activities.

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- Review data reductions from the relevant site activities.
- Perform final data review of field data reductions and reports on relevant site activities.
- Verify that corrective actions are taken for deficiencies cited during audits of relevant site activities.
- Perform overall quality assurance/quality control (QA/QC) of the relevant portions of the site activities.
- Review relevant field records and logs.
- Instruct personnel working on relevant site activities.
- Coordinate field and laboratory schedules pertaining to relevant site activities.
- Request sample bottles from laboratory.
- Review field instrumentation, maintenance and calibration to meet quality objectives.
- Prepare reports pertaining to relevant site activities.
- Maintain field and laboratory files of notebooks/logs, data reductions, and calculations. Transmit originals to the PM.

Field Personnel

Responsibilities and duties include:

- Perform field procedures associated with the investigations as set forth in the specific work plan.
- Perform field analyses and collect quality assurance (QA) samples.
- Calibrate, operate, and maintain field equipment.
- Reduce field data.
- Maintain sample custody.
- Prepare field records and logs.

Quality Assurance Coordinator (QAC)

Responsibilities and duties include:

- Review laboratory data packages
- Oversee and interface with the analytical laboratory.
- Coordinate field QA/QC procedures with Task Managers, concentrating on field analytical measurements and practices to meet data quality objectives (DQOs).
- Perform and review audit reports.
- Prepare interim QA/QC compliance reports.
- Prepare a QA/QC report in accordance with USEPA guidelines, including an evaluation of laboratory data and data usability summary reports (DUSRs).

2.2.3 Analytical Laboratory

General responsibilities and duties of the analytical laboratories include:

- Perform sample analyses and associated laboratory QA/QC procedures.
- Supply sample bottles and coolers.
- Maintain laboratory custody of sample.
- Strictly adhere to all protocols in the QAPP.

Laboratory Project Manager

Responsibilities and duties include:

- Serve as primary communication link between environmental consultant and laboratory technical staff.
- Monitor workloads and maintain availability of resources.
- Oversee preparation of analytical reports.
- Supervise in-house chain of custody (COC).

Quality Assurance Manager (QAM)

Responsibilities and duties include:

- Supervise personnel reviewing and inspecting all project-related laboratory activities.
- Conduct audits of all laboratory activities.

2.2.4 Regulatory Agencies

Project Manager

Responsibilities and duties include:

- Provide review and approval of the QAPP, work plans, supporting documents, and future deliverables.
- Monitor progress of site activities.

3 DATA QUALITY OBJECTIVES AND CRITERIA FOR MEASUREMENT DATA

The DQO process, as described in EPA-QA/G-4 (USEPA, 2006), is used to establish performance or acceptance criteria, which serve as the basis for designing a plan for collecting data of sufficient quality and quantity to support the goals of the study. The following sections address each of the seven sequential steps in the USEPA DQO process.

Step 1: State the Problem

The Site is impacted by residuals related to historical MGP operations conducted at the property. The site-specific constituent list will be evaluated during the time of sampling. Existing sampling data from past investigations will be incorporated and utilized to determine the site-specific constituent list. Past investigations are summarized in the SMP.

Step 2: Identify the Goal of the Study

The goal of the sampling program will depend on the specific sampling needs. In general, the goal will be to protect human health and the environment, and to manage remaining site impacts in accordance with applicable rules and regulations. Analytical results of constituents will be compared to applicable NYSDEC standards/guidance values and any other applicable regulations. The analyzed environmental media will then be managed and handled, accordingly. Based on analytical results, additional characterization or remedial measure may be required.

Step 3: Identify Information Inputs

Decision inputs incorporate both the concentration and distribution of constituents in site media. A fundamental basis for decision making is that a sufficient number of data points of acceptable quality must be available to support decisions. Thus, the necessary inputs for the decision are: 1) the proportion of non-rejected (usable) data points; and 2) the quantity of data needed to evaluate whether there is unacceptable risk to human health and the environment at and surrounding the Site.

The data will be evaluated for completeness, general conformance with requirements of this QAPP, and consistency among data sets and with historical data, as appropriate.

Step 4: Define the Boundaries of the Study

The Site is located in the Village of Dansville, Livingston County, New York. The site boundaries are more fully described in the Environmental Easement included as Appendix A of the SMP.

Step 5: Developing the Analytical Approach

Samples will be collected and analyzed as described in the FSP and Section 3.2 of this QAPP. Laboratory reporting limits (RLs) are presented in Tables 1a through 1d. Analytical data related to imported backfill and documentation/reuse will be validated to ensure QA/QC limits are met in accordance with this QAPP; analytical data for liquid and solid waste characterization will not be validated. The decision on whether data can be used will be based on the validation results. Following validation, the data will be flagged, as appropriate, and any use restrictions will be noted. A reasonable decision rule would be that 90% of the data points not be rejected or deemed unusable.

Step 6: Specify Performance of Acceptance Criteria

Specifications for this step call for: (1) giving forethought to corrective actions to improve data usability; and (2) understanding the representative nature of the sampling design. This QAPP has been designed to meet both specifications for this step. The sampling and analysis programs have been developed based on a review of previous site data and knowledge of present site conditions. Corrective actions are described in Section 15.3 of this QAPP. The representative nature of the planned sampling program has been facilitated by discussions among professionals familiar with the Site and the appropriate government agencies.

Step 7: Develop the Plan for Obtaining Data

The overall QA objective is to develop and implement procedures for field sampling, COC, laboratory analysis, and reporting that will provide results to support the evaluation of site data against applicable project action limits/screening criteria. Specific procedures for sampling, COC, laboratory instrument calibration, laboratory analysis, data reporting, internal QC, audits, preventative maintenance of field equipment, and corrective action are described in subsequent sections of this QAPP.

A DQO summary for anticipated sampling efforts is presented in the following subsections. The summary consists of stated DQOs relative to data uses, data types, data quantity, sampling and analytical methods, and data measurement performance criteria. Field sampling procedures are detailed in the FSP included as Appendix G to the SMP.

3.1 Data Categories

Three data categories have been defined to address various analytical data uses and the associated QA/QC effort and methods required to achieve the desired levels of quality. These categories are:

Screening Data: Screening data affords a quick assessment of site characteristics or conditions. These data collection activities involve rapid, non-rigorous methods of analysis and QA. Screening DQOs are generally applied to physical and/or chemical properties of samples, preliminary ecological and/or human health and safety indicators, and visual or other qualitative observations used to make rapid assessment decisions for deployment or additional assessment.

Screening Data with Definitive Confirmation: Screening data provide rapid identification and quantitation however, because screening generally involves the use of less precise methods of analysis with less rigorous sample preparation, the quantitation may be relatively imprecise. Generally, at least 10% of the data are confirmed using analytical methods and QA/QC procedures and criteria associated with definitive data. This objective can also be used to verify less rigorous laboratory-based methods. This objective of data quality is available for data collection activities that require qualitative and/or quantitative verification of a select portion of sample findings.

Definitive Data: Definitive data are generated using rigorous analytical methods, such as approved USEPA reference methods. Data are analyte-specific, with confirmation of analyte identity and concentration. Methods produce tangible raw data (e.g., chromatograms, spectra, digital values). Data may be generated at the Site or at an off-site location, as long as the QA/QC requirements are satisfied. For data to be definitive, either analytical or total measurement error must be determined. Definitive data are used for formal site characterization, environmental monitoring, confirmation of field data, to support decision-making, and for risk assessments.

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It is anticipated that both screening and definitive data categories will be used during the investigation. Screening techniques will include the use of a photoionization detector during intrusive sampling activities. All soil and water samples will be analyzed at an off-site laboratory using definitive techniques.

For the purposes of this investigation, two levels of data reporting have been defined. They are as follows:

NYSDEC Analytical Services Protocol (ASP) Category A: Category A reporting is used for analyses that do not generate or require extensive supporting documentation. For this investigation, Category A reporting will be required for routine sampling activities (i.e., groundwater sampling), as well as liquid and solid waste characterization samples.

Category A laboratory data reports include the following items:

- Sample delivery group (SDG) narrative.
- Sample information sheets.
- NYSDEC data package summary forms.
- COC forms.
- Test analysis results.

NYSDEC ASP Category B: Category B reporting is used for analyses that are performed following standard USEPA-approved methods and QA/QC protocols. Category B reporting is anticipated to be used for final “documentation” sampling events. Based on the intended data use, full documentation is required.

Category B laboratory data reports include the following items:

- SDG narrative.
- Sample information sheets.
- NYSDEC data package summary forms.
- COC forms.
- Test analysis results.
- Calibration standards.
- Surrogate recoveries.
- Blank results (method blank, instrument blanks).
- Spike recoveries (matrix spike/matrix spike duplicate [MS/MSD], laboratory control sample [LCS]).
- Laboratory duplicate results.
- Confirmation samples.
- Internal standard area and retention time summary.
- Chromatograms.

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- Raw data files.
- Other method-specific information.

Analytical results will be reported by the laboratory in the electronic data deliverable (EDD) format in either an ASCII comma-separated value format or format outlined in EQUiS™ Lab Standard Operating Procedure (SOP) FSMP Rev. 9 (Attachment A) and of the Form Is (results sheets) in a PDF or electronic spreadsheet format, within 15 working days from date of receipt.

3.2 Field Activities

To obtain information necessary to meet the objectives stated above, additional field sampling may be conducted to support the DQOs. Further details of anticipated field sampling will be presented in future sampling plans. For purposes of the SMP, anticipated sampling details are provided in the EWP, FSP, and this appendix.

4 SPECIAL TRAINING REQUIREMENTS/CERTIFICATION

In compliance with the Occupational Safety and Health Administration (OSHA) final rule, “Hazardous Waste: Operations and Emergency Response [29 Code of Federal Regulations 1910.120(e)]”, all personnel performing sampling activities at the Site will have completed the requirements for OSHA 40-Hour Hazardous Waste Operations and Emergency Response training. Persons in field supervisory positions will have also completed the additional OSHA 8 Hour Supervisory Training.

Field personnel involved with the shipping of samples to the subcontracted laboratory will have completed the United States Department of Transportation (USDOT) Hazardous Materials (HazMat) #1 – USDOT/International Air Transportation Association HazMat Shipping and Transportation.

5 DOCUMENTATION AND RECORDS

Samples will be collected as described in the FSP. Detailed descriptions of the documentation and reporting requirements are presented below.

5.1 Sample Designation System

Samples will be identified with a unique designation system that will facilitate sample tracking. The sample designation system to be employed during the sampling activities will be consistent, yet flexible enough to accommodate unforeseen sampling events and conditions. An alpha-numeric system is considered appropriate and will be used by field personnel to assign each sample with a unique sample identification number.

The sample identification number will include the sample type followed by a sequential sample number. The sample type codes are as follows:

- Groundwater Sample – “GW” or “MW”
- Soil Vapor – “SV”
- Ambient Air – “AA”
- Indoor Air – “IA”
- Trip Blank Sample – “TB”
- Field Duplicate Sample – “DUP”
- Equipment Blank Sample – “EB”
- Matrix Spike and Matrix Spike Duplicate – “MS” and MSD”
- Imported backfill – “BF”
- Waste characterization – “WC”
- Documentation/reuse – “DR”

The location code, consisting of a two to five-digit designation, will follow the sample type code. The sample code will also be a six-digit number indicating the month, day and year the sample was obtained. For example, a groundwater sample collected from MW-10 on October 30, 2020 will be designated MW-10 (201030).

QA/QC samples will be designated by a three-letter code followed by the six-digit sample collection date. For field and equipment blanks, a two-letter sample type code will precede the blank designation to indicate which medium the blank was intended to represent. For example, a field blank collected on October 30, 2020, during groundwater samples collection would be designated GW-FB1-201030. The sampling point associations for field duplicates must be recorded in the field log. A detailed description of the sample identifications will be recorded in the field log.

5.2 Field Documentation

Field personnel will provide comprehensive documentation covering various aspects of field sampling, field analysis, and sample COC. This documentation creates a record that allows reconstruction of field events to aid in the data review and interpretation process. Documents, records, and information relating to the performance of the field work will be retained in the project file.

The various forms of documentation to be maintained throughout the investigation include:

- Sampling Information – Detailed notes will be made as to the exact sampling location, physical observations, and weather conditions (as appropriate).
- Field Notebooks/Forms – All pertinent information regarding the Site and sampling procedures will be documented. A field notebook consisting on a waterproof, bound notebook that will contain a record of all activities performed at the Site. Detailed notes will be made as to the exact sampling location, physical observations, and weather conditions (as appropriate). To ensure that data collected in the field is consistent, accurate, and complete, forms may be used during repetitive data collection (e.g., depth to groundwater in monitoring wells during groundwater sampling).
- Sample Labels – Sample labels reduce the possibility of confusing sample containers and provide information necessary to complete COC forms. To the extent practical, sample containers will be pre-labeled before sample collection (with all required information except the date and time of sample collection) and the labels protected with a clear tape covering.
- Sample Chain of Custody – COC forms provide a legal record of possession of the samples, from sample collection through submittal to the laboratory. COC forms will be filled out at each sampling site, at a group of sampling sites, or at the end of each day of sampling by field personnel designated to be responsible for sample custody. In the event that samples are relinquished by the designated sampling person to other sampling or field personnel, the COC form will be signed and dated by the appropriate personnel to document the sample transfer. The original COC form will accompany the samples to the laboratory, and copies will be forwarded to the project files. When the form is complete, it will indicate that there were no lapses in sample accountability.

Persons will have custody of samples when the samples are in their physical possession, in their view after being in their possession, or in their physical possession and secured so they cannot be tampered with. In addition, when samples are secured in a restricted area accessible only to authorized personnel, they will be deemed to be in the custody of such authorized personnel.

- Field Equipment, Calibration, and Maintenance Logs – To document the calibration and maintenance of field instrumentation, calibration and maintenance logs will be maintained for each piece of field equipment that is not factory calibrated.

5.3 Laboratory Documentation Files

5.3.1 Laboratory Project Files

The laboratory will establish a file for pertinent data. The file will include all correspondence (including emails), faxed information, phone logs, and COC forms. The laboratory will retain project files and data packages for a period of not less than five years.

5.3.2 Laboratory Logbooks

Workbooks, bench sheets, instrument logbooks, and instrument printouts will be used to trace the history of samples through the analytical process and to document important aspects of the work, including the associated QC checks. As such, all logbooks, bench sheets, instrument logs, and instrument printouts will be part of the permanent record of the laboratory.

Each page or entry will be dated and initialed by the analyst at the time of entry. Errors in entry will be crossed out in indelible ink with a single stroke, corrected without the use of white-out or by obliterating or writing directly over the erroneous entry, and initialed and dated by the individual making the correction. Pages of logbooks that are not used will be completed by lining out unused portions.

Information regarding the sample, analytical procedures performed, and the results of the testing will be recorded on laboratory forms or personal notebook pages by the analyst. These notes will be dated and will also identify the analyst, the instrument used, and the instrument conditions.

Laboratory notebooks will be periodically reviewed by the laboratory group leaders for accuracy, completeness, and compliance with the laboratory SOPs and QA manual. All entries and calculations will be verified by the laboratory group leader. If all entries on the pages are correct, then the laboratory group leader will initial and date the pages. Corrective action will be taken for incorrect entries before the laboratory group leader signs.

5.3.3 Computer and Hard Copy Storage

All electronic files and deliverables will be retained by the laboratory for not less than five years; hard copy data packages (or electronic copies) will also be retained for not less than five years.

5.4 Data Reporting Requirements

5.4.1 Field Data Reporting

Information collected in the field through visual observation, manual measurement, and/or field instrumentation will be recorded in field notebooks or data sheets and/or on forms. Such data will be reviewed for adherence to the applicable field SOPs and for consistency. Concerns identified as a result of this review will be discussed with the field personnel, corrected if possible, and, as necessary, incorporated into the data evaluation process (as necessary).

Where applicable, field data forms and calculations will be processed and included in appendices to the appropriate project reports (when generated). The original field logs, documents, and data reductions will be kept in the main project file.

5.4.2 Laboratory Data Reporting

Analytical results will be provided by the laboratory in a digital format. The data packages will be examined to ensure that the correct analyses were performed for each sample submitted and that all of the analyses requested on the COC form were performed. If discrepancies are noted, the QAC will be notified and will promptly follow up with the laboratory to resolve any issues.

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If validation is required, each data package will be validated in accordance with the procedures presented in this QAPP. Data that do not meet the specified standards will be flagged pending resolution of the issue. The flag will not be removed from the data until the issue associated with the sample results is resolved. Although flags may remain for certain data, the use of that data may not necessarily be restricted.

Following completion of the data validation, the data review will be used to populate the appropriate database tables. This format specifies one data record for each constituent and each sample analyzed. Specific fields include:

- Sample identification number
- Date sampled
- Date analyzed
- Parameter name
- Analytical result
- Units
- Detection limit
- Qualifier(s)

The individual EDDs supplied by the laboratory in either an ASCII comma-separated value format or format outlined in EQUIS™ Lab SOP FSMP Rev. 9, will be loaded into the appropriate database table. Analytical data that cannot be provided by the laboratory in electronic format will be entered manually. Hand-keyed data will be reviewed for accuracy. After entry into the database, the EDD data will be compared to the field information previously entered into the database to confirm that all requested analytical data were received.

The Analytical Laboratory is responsible for preparing NYSDEC Category B data packages for all samples, except, solid and liquid waste characterization samples. Data reports for all parameters will include, at a minimum, the following items:

Narrative – Summary of activities that took place during the course of sample analysis, including the following information:

- Laboratory name and address.
- Date of sample receipt.
- Cross reference of laboratory identification number to sample identification.
- Analytical methods used.
- Deviations from specified protocol.
- Corrective actions taken.

Included with the narrative will be any sample handling documents, including field and internal COC forms, air bills, and shipping tags.

Analytical Results – These will be reported according to analysis type and include the following information, as applicable:

- Sample ID
- Laboratory ID
- Date of collection
- Date of receipt
- Date of extraction
- Date of analysis
- Dilution factor
- Detection limits

Sample results on the report forms will be corrected for dilutions. Unless otherwise specified, all results will be reported uncorrected for blank contamination.

5.4.3 External Data Reporting

Analytical data will be provided to the NYSDEC as part final documentation reporting, such as a Periodic Review Report, Groundwater Summary Report, or Remedial System Optimization Report. Analytical will be provided in a tabular summary; original and validated laboratory reports will be provided in electronic format (i.e., PDF); and EDDs can be provided, as requested.

5.5 Project File

Project documentation will be placed in project files according to the Environmental Consultant's protocol for document management.

Final reports (including QA Reports) are filed in a designated folder within the project file. Analytical laboratory documentation (when received) and field data will also be filed in a designated folder within the project file. Filed materials may be removed and signed out by authorized personnel on a temporary basis only.

6 SAMPLING PROCESS DESIGN

Information regarding the sampling design and rationale and associated sampling locations will be evaluated during a future sampling plan. Field investigation activities will be conducted according to the appropriate FSP and applicable NYSDEC regulations.

7 SAMPLING METHOD REQUIREMENTS

The Environmental Consultant will collect all required samples as described in the FSP. In addition, the FSP contains the procedures that will be followed to install monitoring wells; measure water levels; perform field measurements; and handle, package, and ship collected samples.

8 SAMPLE HANDLING AND CUSTODY REQUIREMENTS

8.1 Sample Containers and Preservation

Appropriate sample containers, preservation methods, and laboratory holding times for the samples are shown in Table 2.

The analytical laboratory will supply appropriate sample containers and preservatives, as necessary. The bottles will be purchased pre-cleaned to USEPA Office of Solid Waste and Emergency Response Directive 9240.05A requirements. The field personnel will be responsible for properly labeling containers and preserving samples (as appropriate).

8.2 Field Custody Procedures

The sampling team will maintain overall responsibility for the care and custody of the samples until they are transferred or properly dispatched to the laboratory. The objective of field sample custody is to ensure that samples are not tampered or modified from the time of collection through transport and transfer to the analytical laboratory. Persons will have “custody of samples” when the samples are in their physical possession, in their view after being in their possession, or in their physical possession and secured so they cannot be tampered with. In addition, when samples are secured in a restricted area accessible only to authorized personnel, they will be deemed to be in the custody of such authorized personnel.

Field custody documentation consists of both field logbooks and field COC forms.

8.2.1 Field Logbooks

Field logbooks will provide the means of recording data collecting activities performed. As such, entries will be described in as much detail as possible so that persons going to the Site could reconstruct a particular situation without reliance on memory.

Field logbooks will be bound field survey books or notebooks and have numbered, water-resistant pages. Logbooks will be assigned to field personnel but will be stored in a secure location when not in use. Each logbook will be identified by the project specific document number. The title page of each logbook will contain the following:

- Person to whom the logbook is assigned.
- Logbook number.
- Project name.
- Project start date.
- End date.

Entries will be made in ink, with no erasures. If an incorrect entry is made, the information will be crossed out with a single strike mark and initialed by the person making the correction.

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Recorded information typically includes, but may not be limited to the following:

- Name and location of Site
- Date and time of arrival and departure
- Name and signature of person keeping log
- Names of all persons on-site
- Purpose of visit
- Level of personal protective equipment (PPE) used
- Field instrument identification and calibration information
- Location of sampling points
- Results of field measurements made
- Number of samples taken, volume of samples taken
- Preservation
- Method of sample collection and any factors that may affect its quality
- Name of sample collector
- All sample identification numbers (assigned prior to sample collection)
- Description of samples, including as applicable depth at which the sample was collected
- Weather conditions on the day of sampling and any field observations
- Number and description of photographs taken, if any

8.2.2 Sample Labelling

Sample labels are an important part of proper documentation as their use reduces the possibility of confusing sample containers and provides the information necessary during handling to complete COC forms. The following information is required on each sample label:

- Site name or location
- Date and time collected
- Sample identification number
- Sampler's initials
- Parameter sampled
- Preservative

When possible, preprinted sample labels (i.e., preprinted with items noted above except of date and time collected) will be affixed to sample bottles prior to delivery at the sampling site and the labels themselves protected from the sample matrix with a clear-tape covering.

8.2.3 Field Chain of Custody Forms

The COC form is intended as a legal record of possession of the sample. Completed COC forms will be required for all samples to be analyzed. COC forms will be initiated by the sampling crew in the field. The COC forms will contain the sample's unique identification number, sample date and time, sample description, sample type, preservation (if any), and analyses required. The original COC form will accompany the samples to the laboratory. Copies of the COC will be made prior to shipment (or multiple copy forms used) and placed in the project files. The COC forms will remain with the samples at all times. The samples and signed COC forms will remain in the possession of the sampling crew until the samples are delivered to the express carrier (e.g., Federal Express), hand delivered to the laboratory, picked up by a laboratory courier, or placed in secure storage.

Sample labels will be completed for each sample using waterproof ink. The labels will include the information listed in Section 8.2.2. The completed sample labels will be affixed to each sample bottle and covered with clear tape.

Whenever samples are split with a government agency or other party, a separate COC will be prepared for those samples and marked to identify the party with whom the samples are being split. The person relinquishing the samples to the facility or agency should request the representative's signature acknowledging sample receipt. If the representative is unavailable or refuses, this is noted in the "Received By" space.

8.2.4 Sample Custody Seals

Custody seals are narrow strips of adhesive paper or glass fiber used to demonstrate that no tampering of the shipping container has occurred. The custody seals will be signed and dated by the sampling crew and placed across the opening of the lid and body of the shipping containers and at least on one side and the front of the container. The custody seals will be covered with clear, wide tape. These custody seals shall be plainly visible.

8.3 Management of Investigation-Derived Materials and Wastes

Investigation-derived waste (IDW) include soil, decontamination water, sampling supplies, and PPE generated during sampling activities. These wastes are generated during drilling, sampling, and other sampling activities. The intent of managing IDW is to ensure that impacted materials and media are not allowed to contaminate non-impacted materials and media. An example of an impacting event would be the purging of impacted groundwater and discharging that water onto non-impacted soil and shallow groundwater. Those kinds of activities will not be allowed.

Where necessary to promote the safe, efficient, and environmentally protective performance of work, management of investigation-derived materials and wastes will be performed consistent with the USEPA guidance Guide to Management of Investigation – Derived Wastes, 9345.3-03FS, dated January 1992. Disposable equipment (including PPE) will be containerized, appropriately labeled during the sampling events, and disposed of accordingly. All residual solids and water generated during purging and equipment decontamination will be containerized, temporarily staged on-site in appropriate containers (e.g., 55-gallon drums, portable tanks, etc.) and disposed of based on analytical results. Equipment will be decontaminated, as appropriate.

8.4 Packing, Handling, and Shipping Requirements

All shipping or sample transfer information will be recorded at the end of each day or collection period on COC forms. Sample packaging and shipment procedures are designed so that the samples will arrive at the laboratory with the COC, intact.

It is imperative that all samples are submitted to the laboratory with ample time for the analysis to be completed within the method-specified holding time. It should be noted that the laboratory needs to be aware that missing a holding time is unacceptable and may result in unusable data if the holding time is missed.

General sample packaging and shipping requirements are as follows:

- Securely affix the sample label to the container with clear packing tape.
- Check the cap on the sample container to confirm that it is properly sealed.
- Complete the COC form with the required sampling information and confirm that the recorded information matches the sample labels. NOTE: If the designated sampler relinquishes the samples to other sampling or field personnel for packing or other purposes, the sampler will complete the COC prior to this transfer. The appropriate personnel will sign and date the COC form to document the sample custody transfer.
- Using duct tape, secure the outside drain plug at the bottom of the cooler.
- Wrap glass sample containers in bubble wrap or other cushioning material.
- Place 1 to 2 inches of cushioning material at the bottom of the cooler.
- Place the sealed sample containers into the cooler.
- Place ice in plastic bags, seal the bags, and place the bags loosely in the cooler.
- Fill the remaining space in the cooler with cushioning material.
- Place COC forms in a plastic bag and seal. Tape the forms to the inside of the cooler lid.
- Close the lid of the cooler and secure with duct tape.
- Wrap strapping tape (or equivalent) around both ends of the cooler at least twice.
- Mark the cooler on the outside with the shipping address and return address, affix "Fragile" labels, and draw (or affix) arrows indicating "this side up." Cover the labels with clear plastic tape. Place a signed custody seal over the cooler lid. NOTE: If the samples are being delivered directly to the laboratory or will be picked up by the lab's courier service, this step is eliminated.

Samples will be packaged by field personnel and transported as low-concentration environmental samples. The samples will be placed in coolers pre-chilled with ice and hand-delivered or delivered by an express carrier within 48 hours of the time of collection. Coolers will be kept at required temperatures (i.e., ice will be added, as needed). In some cases, the analytical method may require analysis within a shorter holding time, and arrangements will need to be made to accommodate the laboratory requirements. Shipments will be accompanied by the COC form identifying the contents. The original form will accompany the shipment; copies will be retained by the sampler for the sampling office records. If the samples are sent by common carrier, a bill of lading will be used. Receipts or bills of lading will be

retained as part of the permanent project documentation. Commercial carriers are not required to sign off on the COC form as long as the forms are sealed inside the sample cooler, and the custody seals remain intact.

Custody seals and cooler packing materials will be provided by the analytical laboratory. The filled, labeled, and sealed containers will be placed in a cooler on ice and carefully packed to eliminate the possibility of container breakage. Trip blanks of analyte-free water will be provided by the laboratory and included in each cooler containing samples to be analyzed for VOCs.

8.5 Laboratory Custody Procedures

Upon sample receipt, laboratory personnel will be responsible for sample custody. The original field COC form will accompany all samples requiring laboratory analysis. Samples will be kept secured in the laboratory until all stages of analysis are complete. All laboratory personnel having samples in their custody will be responsible for documenting and maintaining sample integrity.

8.5.1 Sample Receipt and Storage

Upon sample receipt, the laboratory sample custodian will verify the package seal, open the package, verify the sample integrity, and compare the contents against the field COC. If a sample container is broken, the sample is in an inappropriate container, has not been preserved by appropriate means, or if there is a discrepancy between the COC and the sample shipment, The Environmental Consultant will be notified. The laboratory sample custodian will then log the samples in, assign a unique laboratory identification number to each, and label the sample bottle with the laboratory identification number. The project name, field sample code, date sampled, date received, analysis required, storage location and date, and action for final disposition will be recorded in the laboratory tracking system.

8.5.2 Sample Analysis

Analysis of an acceptable sample will be initiated by a work sheet that will contain pertinent information for analysis. The analyst will sign and date the laboratory COC form when removing the samples from storage.

Samples will be organized into SDGs by the laboratory. An SDG may contain up to 20 field samples (field duplicates, trip blanks, and rinse blanks are considered field samples for the purposes of SDG assignment). All field samples assigned to a single SDG will be received by the laboratory over a maximum of 7 calendar days and must be processed through the laboratory (preparation, analysis, and reporting) as a group.

If reanalysis of a sample is required it may be re-run separately from the original SDG; however, the resulting data will be reported with the original SDG.

Every SDG must include a minimum of one method blank and one MS/MSD (or MS/laboratory duplicate) pair; each SDG will, therefore, be self-contained for all of the required QC samples. Project samples to be used for MS/MSDs will be noted on the COC.

Information regarding the sample, analytical procedures performed, and the results of the testing will be recorded in a laboratory notebook by the analyst. These notes will be dated and identify the analyst, the instrument used, and the instrument conditions.

8.5.3 Sample Storage Following Analysis

The remaining sample volume and extracts/digestates (if any) will be maintained by the laboratory for one month after the final report is delivered to the Environmental Consultant. After this period, the samples will be disposed of in accordance with applicable rules and regulations.

9 ANALYTICAL METHOD REQUIREMENTS

9.1 Field Analytical Procedures

Specific field measurement protocols are provided in the FSP.

9.2 Laboratory Parameters and Methods

Laboratory analytical requirements presented in the sub-sections below include a general summary of requirements, specifics related to each sample medium to be analyzed, and details of the methods to be used for this project. Current USEPA approved methods will be used for all applicable parameters and sample media.

9.2.1 General

The following tables (attached at the end of this QAPP) summarize general analytical requirements:

- Table 1a: Parameters, Methods, and Target Quantitation Limits (Soil)
- Table 1b: Parameters, Methods, and Target Quantitation Limits (Water)
- Table 1c: Parameters, Methods, and Target Quantitation Limits (Ambient Air, Indoor Air, Soil Vapor)
- Table 1d: Parameters, Methods, and Target Quantitation Limits (Solid Waste Characterization)
- Table 2: Sample Containers, Preservation, and Holding Times
- Table 3: Sample Quantities and Quality Control Frequencies
- Table 4: Laboratory Quality Control Limits

9.2.2 Laboratory Analyses

The primary sources of the analytical methods to be used during the investigation are provided in USEPA SW-846, and USEPA Method TO-15. Quantitation limits for the analyses are shown in Tables 1a through 1d. The laboratory will make every effort to achieve quantitation limits as low as practicable unless dilution or interference effects make it necessary to report at higher levels. Results quantitated below the RLs will be reported as estimated concentrations and flagged, "J".

10 QUALITY CONTROL REQUIREMENTS

10.1 Data Quality Indicators

The overall DQOs for this assessment is to develop and implement procedures for sampling, COC, laboratory analysis, instrument calibration, data reduction and reporting, internal QC, audits, preventive maintenance, and corrective action such that valid data will be generated for site assessment purposes. These procedures are presented or referenced in subsequent sections of the QAPP.

DQOs are generally defined in terms of the following parameters:

- Representativeness
- Comparability
- Completeness
- Precision
- Accuracy
- Sensitivity

Each parameter is defined below. Specific objectives for this assessment are set forth in other sections of this QAPP as referenced below.

10.1.1 Representativeness

Representativeness is the extent to which measurements represent the site conditions. It is dependent on sampling and analytical variability, and the variability (or homogeneity) of the site itself. The sampling activities have been designed to assess the presence of the constituents at the time of sampling. This QAPP presents field sampling methodologies and laboratory analytical methodologies. The use of the prescribed field and laboratory analytical methods with associated holding times and preservation requirements are intended to provide representative data.

10.1.2 Comparability

Comparability is defined as the extent to which data from one data set can be compared directly to similar or related data sets and/or decision-making standards. Comparability between this investigation and to the extent possible, with existing data will be maintained through consistent use of the sampling and analytical methodologies set forth in this QAPP, the analytical methods, stringent applicable of established QA/QC procedures, and utilization of appropriately trained personnel.

10.1.3 Completeness

Completeness is defined as a measure of the amount of usable data collected compared to the total amount of data that was expected to be obtained. This will be determined upon final assessment of the analytical results.

10.1.4 Precision

Precision is a measure of agreement among repeated measurements. The goal is to maintain a level of analytical precision consistent with the project objectives. To maximize precision, sampling and analytical procedures will be followed and work will adhere to established protocols presented in this QAPP.

Analytical precision will be determined through the use of the same analytical methods to perform repeated analyses on the same sample, including the analysis of MSD samples, laboratory duplicates, and field duplicates. Collection of field duplicate samples allows for evaluating the precision of sample collection, sample handling, preservation, and storage.

Precision for laboratory and field measurements will be expressed as the relative percent difference (RPD) between two duplicate determinations. Acceptance criteria for laboratory precision are presented in Table 4.

10.1.5 Accuracy/Bias

Accuracy is the degree of agreement of a measured value with its true value. Accuracy can be expressed as a percent recovery or percent deviation of the measurement with respect to its known or true value. Accuracy will be determined through evaluation of spike recoveries (e.g., surrogate recoveries, LCS recoveries, MS recoveries, reference material recoveries, etc.) and instrument calibration. Acceptance for spike recoveries are presented in Table 4.

Bias is defined as the constant or systematic distortion of a measurement process as a persistent positive or negative deviation from the known or true value. This may be due to improper sample collection, sample matrix, poorly calibrated analytical or sampling equipment, or limitations or errors in analytical methods and techniques. Blank samples (laboratory or field) are also used to assess contamination of samples that may bias results high.

10.1.6 Sensitivity

Sensitivity refers to the ability of an analytical procedure to quantify an analyte at a given concentration. The sensitivity requirements should be established such that the laboratory RLs are at or below the relevant and applicable regulatory limits for each contaminant of concern for the project. Method detection limit (MDL) is defined as the minimum concentration of a substance that can be identified, measured, and reported with a 99 percent confidence that the analyte concentration is greater than zero and is determined from repeated analysis of a sample in a given matrix containing the analyte. MDLs have been determined as required in Title 40 of the Code of Federal Regulation Part 136B. The RL is greater than or equal to the lowest standard used to establish the calibration curve. Results greater than the MDL and less than the RL will be qualified estimated (J) by the laboratory.

10.2 Decision Rule

The decision on whether data can be used will be based on the validation results. Following validation, the data will be flagged, as appropriate, and any use restrictions noted. The sampling plan has been devised so that the loss of any single data point will not hinder description of the distribution of potential constituents of concern. Given this, a reasonable decision rule would be that 90% of the data points not be rejected and deemed unusable.

10.3 Field Quality Control Checks

10.3.1 Field Measurements

To verify the quality of data using field instrumentation, duplicate measurements will be obtained and reported for all field measurements. A duplicate measurement will involve obtaining measurements a second time at the same sampling location.

10.3.2 Sample Containers

New, certified, clean sample containers will be supplied by the laboratory.

10.3.3 Field Duplicates

Field duplicates will be collected to verify the reproducibility of the sampling methods. In general, field duplicates will be analyzed at a 5 percent frequency (every 20 samples) for the chemical constituents.

Trip Blanks

Trip blanks will be used to assess whether site samples have been exposed to non-site-related VOCs during field handling procedures and shipping. Trip blanks will be analyzed at a frequency of once per day, per cooler containing samples to be analyzed for VOCs. A trip blank will consist of a VOC vial filled with analyte-free water (supplied by the laboratory), taken to the sampling site, and transported back to the laboratory without having been exposed to sampling procedures.

10.4 Analytical Laboratory Quality Control Checks

Internal laboratory QC checks will be used to monitor data integrity and to document the validity of the generated data. The checks reveal information about sampling technique, analyst technique, instrument capability, possible sources of contamination, precision of the results, and difficulties with the matrix. These checks will include method blanks, LCS, MS/MSD, laboratory duplicates, internal standards, and surrogate samples. Advisory QC limits are identified in Table 4. Laboratory control charts will be used to determine long-term instrument trends.

10.4.1 Calibration Verification

Initial calibration of instruments will be performed as required in the method and when any ongoing calibration does not meet control criteria. The number of points used in the initial calibration is defined in each analytical method.

Calibration check standards analyzed within a particular analytical series provide insight regarding instrument stability. Ongoing calibration verification will be performed as specified in the analytical methods to monitor instrument performance. In general, the calibration check standard will be analyzed at the beginning and end of an analytical series, or periodically throughout a series containing a large number of samples.

In the event that an ongoing calibration does not meet control limits, analysis of samples will be suspended until the source of the control failure is either eliminated or reduced to within control specifications. Any samples analyzed while the instrument was out of control will be reanalyzed.

10.4.2 Method Blanks

Sources of contamination in the analytical process, whether specific analyses or interferences, must be identified, isolated, and corrected. A method blank is an “analyte-free” matrix that is treated exactly as the sample including exposure to all glassware, equipment solvents, reagents, labeled compounds, internal standards, and surrogates that are used with sampled. The method blank is useful in identifying possible sources of contamination within the analytical process (i.e., laboratory environment, reagents, or apparatus). For this reason, it is necessary that the method blank is initiated at the beginning of the analytical process and encompasses all aspects of the analytical work. One method blank will be analyzed with each analytical series associated with no more than 20 samples. Blank corrections will not be applied by the laboratory to the original data.

10.4.3 Matrix Spike/Matrix Spike Duplicates

An MS is an aliquot of an environmental samples to which known quantities of target analytes are added in the laboratory. An MSD is a second aliquot of the samples which is also spiked with identical concentrations of target analytes. The MS and MSD are analyzed in an identical manner as the sample. The purpose of a MS is to determine the accuracy of the overall analytical procedure for determining the analytes of concern in the sample. The MSD analysis is used to document both the precision and accuracy of the method in a given sample matrix.

To get the true benefit from MS and MSD analyses, it is necessary that the sample come from the Site so that it is possible to ascertain if the matrix itself is contributing to analytical difficulties or outliers. When MS recoveries are outside QC limits, associated LCS and surrogate spike recoveries will be evaluated, as applicable, to attempt to verify the reason for the deviation and determine the effect on the reported sample results.

10.4.4 Laboratory Duplicates

Laboratory duplicates will be analyzed to assess laboratory precision. Laboratory duplicates are defined as a separate aliquot of an individual sample that is analyzed as a separate sample. Table 3 presents an estimated number of laboratory duplicates for each applicable parameter.

10.4.5 Laboratory Control Samples

LCS are standards of known concentration and are independent in origin from the calibration standards. An LCS is a blank matrix, free from the analytes of interest, spiked with verified known amounts of analytes created from a source other than that used to make up calibration standards. The LCS is carries through the analysis along with the samples. The intent of LCS analysis is to provide insight into the intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. This includes the preparation of calibration standards, validity of calibration, sample preparation, instrument set-up, and the premises inherent in quantitation. Reference standards will be analyzed at the frequencies specified within the analytical methods.

10.4.6 Surrogate Spikes

A surrogate spike is an organic non-target analyte that is unlikely to occur under natural conditions but that have similar chemical properties to the analytes of interest. This type of control is primarily used for organic samples analyzed by gas chromatography/mass spectrometry (GC/MS) and GC methods and is added to the samples prior to purging or extraction. The surrogate spike is utilized to provide broader insight into the proficiency and efficiency of an analytical method on a sample-specific basis. This control reflects analytical conditions that may not be attributable to sample matrix.

The surrogate standard is added to the sample in a known amount, prior to purging or extraction. The surrogate concentration is measured using the same procedures used to measure other analytes in the sample. The surrogate spike is utilized to provide broader insight into the proficiency and efficiency of an analytical method on a sample-specific basis. This control reflects analytical conditions that may not be attributable to sample matrix.

If surrogate spike recoveries exceed specified QC limits, the analytical results must be evaluated thoroughly in conjunction with other control measures. In the absence of other control measures, the integrity of the data may not be verifiable, and reanalysis of the samples with additional control may be necessary.

Surrogate spike compounds will be selected utilizing the guidance provided in the analytical methods and will be added to all field samples and laboratory QC samples.

10.4.7 Reference Standards/Control Samples

Reference standards are standards of known concentration and independent in origin from the calibration standards. The intent of reference standard analysis is to provide insight into the analytical proficiency within an analytical series. This includes the preparation of calibration standards, the validity of calibration, sample preparation, instrument set up, and the premises inherent in quantitation. Reference standards will be analyzed at the frequencies specified within the analytical methods.

10.4.8 Internal Standards

Internal standard areas and retention times will be monitored for organic analyses performed by GC/MS methods. Method-specified internal standard compounds will be spiked into all field samples, calibration standards, and QC samples after preparation and prior to analysis. If internal standard areas in one or more samples exceed the specified tolerances, the cause will be investigated, the instrument will be recalibrated if necessary, and all affected samples may be re-analyzed.

The acceptability of internal standard performance will be determined using the guidance provided within the analytical methods

10.5 Data Precision Assessment Procedures

Field precision is difficult to measure because of temporal variations in field parameters. However, precision will be controlled through the use of experienced field personnel, properly calibrated meters, and duplicate field measurements. Field duplicates will be used to assess precision for the entire measurement system, including sampling, handling, shipping, storage, preparation and analysis.

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Laboratory data precision for analyses will be monitored through the use of MSD, laboratory duplicates and field duplicate.

Analytical precision will be evaluated by calculating the RPD for laboratory duplicate and MS/MSD samples, as follows:

$$RPD = \frac{abs(D1-D2)}{\frac{(D1+D2)}{2}} \times 100$$

Where: abs = absolute value
RPD = relative percent difference
D1 = sample value
D2 = duplicate sample value

Precision objectives for MSD and laboratory duplicate analyses are identified in Table 4.

10.6 Data Accuracy Assessment Procedures

The accuracy of field measurements will be controlled by employing experienced field personnel, using properly calibrated field meters, and adhering to established protocols. The accuracy of field meters will be assessed by review of calibration and maintenance logs.

Laboratory accuracy will be assessed by using MSs, surrogate spikes, internal standards and reference standards. Where available and appropriate, QA performance standards will be analyzed periodically to assess laboratory accuracy. Accuracy will be calculated in terms of percent recovery as follows:

$$\% \text{ Recovery} = \frac{A-X}{B} \times 100$$

Where: A = value measured in spiked sample or standard
X = value measured in original sample
B = amount added to sample or true value of the standard

This formula is derived under the assumption of constant accuracy between the original and spiked measurements. If any accuracy calculated by this formula is outside of the acceptable levels, data will be evaluated to determine whether the deviation represents unacceptable accuracy, or variable, but acceptable accuracy. Accuracy objectives for MS recoveries and surrogate recovery objectives are identified in Table 4.

10.7 Data Representativeness Assessment Procedures

Representativeness will be assessed by examining sample preservation, results of the precision and accuracy evaluation, and adherence to method holding time. Failure of the field or laboratory personnel to properly handle samples may result in qualification of the data as estimated or unusable. The use of laboratory data from a sample with a failed holding time could render the data unusable, in particular, for VOC analysis there is a potential for loss of compounds and the concentration may be biased low. The representativeness review will qualitatively consider whether precision and/or accuracy are sufficient to characterize the representativeness of the samples.

10.8 Blank Sample Assessment Procedures

Blank samples will be used to determine the existence and magnitude of contamination resulting from laboratory or field activities. The method blank is used as a check on laboratory procedures as well as possible contamination from laboratory equipment (i.e., reagents, glassware, etc.). Trip blanks determine the integrity of the sample container for loss or addition of analytes due to handling and transport. Detections in any blank samples will be used to qualify similar detections in associated field samples.

10.9 Data Completeness Assessment Procedures

Completeness of a field or laboratory data set will be calculated by comparing the number of usable measurements (i.e., all measurements except rejected data) actually obtained to the total number of usable measurements that were planned.

$$Completeness = \frac{\text{usable data points obtained}}{\text{total data points planned}} \times 100$$

As a general guideline, overall project completeness is expected to be at least 90 percent. The assessment of completeness will require professional judgment to determine data usability for the intended purposes.

10.10 Data Comparability Assessment Procedures

Comparability will be assessed by evaluating whether samples were collected in a manner similar to previous sampling events and analytes using similar analytical methodology as previous events.

10.11 Sensitivity Assessment Procedures

Sensitivity is related to the RLs. In general, RLs should be less than the applicable standard. Analytical results for samples that are reported as non-detected for a particular analyte that have RLs greater than the applicable standard cannot be used to demonstrate compliance with the applicable standard. Samples that are contaminated with sufficient quantity of material, such that dilutions are performed, are a leading cause of RLs exceeding applicable criteria. However, there may be instances where such exceedances are insignificant relative to the site specific DQOs. The sensitivity review will qualitatively consider whether the RLs are sufficiently low to compare analytical results to the applicable standards, which considering the project DQOs.

11 INSTRUMENT/EQUIPMENT TESTING, INSPECTION AND MAINTENANCE REQUIREMENTS

Preventive maintenance schedules have been developed for both field and laboratory instruments. A summary of the maintenance activities to be performed is presented below.

11.1 Field Instruments and Equipment

Prior to any field sampling, each piece of field equipment will be inspected to confirm that it is operational. If the equipment is not operational, it must be serviced prior to use. All meters that require charging or batteries will be fully charged or have fresh batteries. If instrument servicing is required, it is the responsibility of the Field Sampling Manager to follow the maintenance schedule and arrange for prompt service. Field instruments will be maintained according to the manufacturers' instructions.

Field instrumentation to be used in this study includes meters to measure pH, ORP, turbidity, temperature, conductivity, dissolved oxygen, and groundwater levels. Field equipment also includes sampling devices for groundwater. A logbook will be kept for each field instrument. Each logbook contains records of operation, maintenance, calibration, and any problems and repairs. The Task Manager will review calibration and maintenance logs.

All measuring and test equipment to be used in support of the field sampling activities that directly affect the quality of the analytical data will be subject to preventive maintenance measures that minimize equipment downtime. Equipment will be examined to certify that it is in operating condition. This includes checking the manufacturer's operating manual to confirm that all maintenance requirements are being observed. Field notes from previous sampling events will be reviewed to verify that any prior equipment problems are not overlooked and that any necessary repairs to equipment have been carried out. However, in most cases, the Environmental Consultant will use field meters maintained and calibrated by national, reputable environmental rental equipment companies; calibration and maintenance records are provided with these pieces of rental equipment and will be maintained as part of the project file.

Field equipment returned from a site will be inspected to confirm it is in working order. This inspection will be recorded in the logbook or field notebooks, as appropriate. It will also be the obligation of the last user to record any equipment problems in the logbook.

Non-operational field equipment will either be repaired or replaced. Appropriate spare parts for field equipment/meters will be available from the rental companies or manufacturers. Owned or leased equipment will be maintained in accordance with the manufacturer's instructions.

11.2 Laboratory Instruments and Equipment

Laboratory instrument and equipment documentation procedures include details of any observed problems, corrective measure(s), routine maintenance and instrument repair (including information regarding the repair and the individual who performed the repair).

Preventive maintenance of laboratory equipment generally will follow the guidelines recommended by the manufacturer. A malfunctioning instrument will be repaired immediately by in-house staff or through a service call from the manufacturer.

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Maintenance schedules for laboratory equipment adhere to each manufacturer's recommendations. Records reflect the complete history of each instrument and specify the time frame for future maintenance. Major repairs or maintenance procedures are performed through service contracts with the manufacturer or qualified contractors. Paperwork associated with service calls and preventive maintenance calls will be kept on file by the laboratory.

Laboratory Systems Managers are responsible for the routine maintenance of instruments used in the laboratory. Any routine preventive maintenance carried out is logged into the appropriate logbooks. The frequency of routine maintenance is dictated by the nature of samples being analyzed, the requirements of the method used and/or the judgment of the Laboratory Systems Manager.

All major instruments are backed up by comparable (if not equivalent) instrument systems in the event of unscheduled downtime. An inventory of spare parts is also available to minimize equipment/instrument downtime.

On a daily basis, the operation of balances, incubators, ovens, refrigerators, and water purification systems will be checked and documented. Any discrepancies will be immediately reported to the appropriate laboratory personnel for resolution.

12 INSTRUMENT CALIBRATION AND FREQUENCY

12.1 Field Equipment Calibration Procedures and Frequency

Calibration checks of field equipment will be performed daily when used. Field equipment operation, calibration, and maintenance procedures are provided in the equipment operation manuals. Field calibration solutions, standards and gases will be used within specified expiration dates and will be obtained from manufacturers or authorized suppliers. Calibration solutions, standards and gases will be discarded or returned to the supplier if expiration dates have been exceeded.

Field personnel are responsible for confirming that a master calibration/maintenance log is maintained following the procedures specified for each measuring device. A calibration log for each specific field instrument (as identified by serial/instrument number) will be used to link daily calibrations to that specific field instrument. Where applicable, each log will include, at a minimum, the following information in order to link daily calibrations to specific field instruments:

- name of device and/or instrument calibrated
- device/instrument serial/identification numbers
- calibration method
- tolerance
- calibration standard used
- frequency of calibration
- date(s) of calibration(s)
- name of person(s) performing calibration(s)

Instruments and equipment used to gather, generate or measure environmental data will be calibrated at the intervals specified by the manufacturer or more frequently, and in such a manner that accuracy and reproducibility of results are consistent with the manufacturer's specifications. If an internally calibrated field instrument fails to meet calibration/checkout procedures, it will be returned to the manufacturer for service. Equipment found to be out of tolerance during the period of use will be removed from the field, and measuring and testing activities performed using the equipment will be addressed via the corrective action system described in Section 15.3 of this QAPP.

12.2 Laboratory Equipment Calibration Procedures and Frequency

Instrument calibration will follow the specifications provided by the instrument manufacturer or specific analytical method used. The analytical methods for chemical constituents are identified in Tables 1a through 1d.

When analyses are conducted according to USEPA methods, the calibration procedures and frequencies specified in the applicable method will be followed. In general, equipment calibration procedures will follow guidelines presented in NYSDEC ASP, Exhibit E, Part III (NYSDEC, 2005). Records of calibrations will be filed and maintained by the laboratory. These records will be subject to QA audit. For all

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instruments, the laboratory will maintain trained repair staff with in-house spare parts or will maintain service contracts with vendors.

All standards used to calibrate equipment are traceable, directly or indirectly, to the National Institute of Standards and Technology. All standards received will be logged into standard receipt logs maintained by the individual analytical groups. Each group will maintain a standards log that tracks the preparation of standards used for calibration and QC purposes.

13 INSPECTION/ACCEPTANCE REQUIREMENTS FOR SUPPLIES AND CONSUMABLES

All supplies to be used in the field and laboratory will be available when needed. They will be free of target chemicals and interferences. All reagents will be tested prior to use in the laboratory. All standards will be verified against a second source standard. The laboratory will follow a “first in/first out” procedure for the storage and use of all consumables to minimize the risk of contamination and degradation.

14 DATA MANAGEMENT

The purpose of the data management is to provide for the accuracy and ready accessibility of all of the necessary data to meet the analytical and reporting objectives of the project. The data management program established for the project includes field documentation and sample QA/QC procedures, methods for tracking and managing the data, and a system for filing all site-related information. More specifically, data management procedures will be employed to efficiently process the information collected such that the data are readily accessible and accurate. These procedures are described in detail in the following section.

The data management plan has five elements:

1. sample designation system
2. field activities
3. sample tracking and management
4. data management system

14.1 Sample Designation System

A concise and easily understandable sample designation system is an important part of the project sampling activities. It provides a unique sample number that will facilitate both sample tracking and easy resampling of select locations to evaluate data gaps, if necessary. The sample designation system to be employed during the sampling activities will be consistent, yet flexible enough to accommodate unforeseen sampling events or conditions. A combination of letters and numbers will be used to yield a unique sample number for each field sampled collected. The sample designation system is described in more detail in Section 5.1.

14.2 Field Activities

Field activities designed to gather the information necessary to make decisions require consistent documentation and accurate record keeping. During site activities, standardized procedures will be used for documenting field activities, data security, and QA. These procedures are described in further detail in the following subsections.

14.2.1 Field Documentation

Complete and accurate record keeping is a critical component of the field activities. When interpreting analytical results and identifying data trends, investigators realize that field notes are an important part of the review and validation process. To confirm that all aspects of the field investigation are thoroughly documented, several different information records, each with its own specific reporting requirements, will be maintained, including field logs, instrument calibration records, and COC forms. A description of each of these types of field document is provided in other sections of this QAPP.

14.2.2 Data Security

Measures will be taken during the field investigation to prevent samples and records from being lost, damaged, or altered. When not in use, all field notebooks will be in the possession of project personnel. Access to these files will be limited to the field personnel who utilize them.

14.3 Sample Tracking and Management

A record of all field documentation will be maintained to provide verification of the validity of data used in the site analysis. To effectively execute such documentation, carefully constructed sample tracking and data management procedures will be used throughout the sampling program.

Sample tracking will begin with the completion of COC forms. Copies of all completed COC forms will be maintained in the field office. The laboratory will verify receipt of the samples electronically (via email) on the following day.

When analytical data are received from the laboratory, the incoming analytical data packages will be reviewed against the information on the COCs to confirm that the correct analyses were performed for each sample and that results for all samples submitted for analysis were received. Any discrepancies noted will be promptly followed up with the laboratory.

14.4 Data Management System

In addition to the sample tracking system, a data management system will be implemented. The central focus of the data management system will be the development of a personal computer-based project database. Additionally, the data management system will allow submission of data to the NYSDEC's EQUIS™ database. The project database, to be maintained by the database administrator, will combine pertinent geographical, field, and analytical data. Information that will be used to populate the database will be derived from three primary sources: surveying of sampling locations, field observations, and analytical results. Each of these sources is discussed in the following sections.

14.4.1 Computer Hardware

The database will be constructed on personal computer work stations connected through a network server. The network will provide access to various hardware peripherals, such as laser printers, backup storage devices, image scanners, and modems. Computer hardware will be upgraded to industrial and corporate standards, as necessary, in the future.

14.4.2 Computer Software

The data will be warehoused in a CORE or EQUIS™ database. Geographic information system (GIS) applications will be developed in ESRI ArcGIS, with additional customization performed with Visual Basic. Tables and other database reports will be generated through Microsoft Access in conjunction with Microsoft Excel and/or Microsoft Word. These software products will be upgraded to current industrial standards, as necessary.

14.4.3 Survey Information

In general, each location sampled will be surveyed or located using a global positioning system (GPS) with sub-meter accuracy to confirm that accurate documentation of sample locations for mapping and GIS purposes (if appropriate) to facilitate the re-sampling of select sample locations during future monitoring programs, if needed, and for any potential remediation activities. The surveying activities that will occur in the field will consist of the collection of information that will be used to compute a northing and easting in state plane coordinates for each sample location and the collection of information to compute elevations relative to the North American Vertical Datum of 1988 for select sample locations, as appropriate. All field books associated with the surveying activities will be stored as a record of the project activities.

14.4.4 Field Observations

An important part of the information that will ultimately reside in the data management system for use during the project will originate with observations that are recorded in the field logbook.

During each sampling event, appropriate field documentation may be prepared by the field personnel who performed the sampling activities. The purpose of the documentation is to create a summary and a record of the sampling event. The field logbook will include the locations sampled, the sampling methodologies used, QA/QC procedures, sample identification numbers, equipment decontamination procedures, personnel involved in the activity, and any other noteworthy events that occurred.

Field logbooks are valuable tools to keep project personnel informed on the details of the field activities and are also invaluable during the development of the required reports. Each field logbook will be reviewed for accuracy and completeness by the respective sampling activity manager. As appropriate, information included in the field logbook will be used to transfer field observations into the data management system.

14.4.5 Analytical Results

Analytical results will be provided by the laboratory in digital format. The data packages will be examined to confirm that the correct analyses were performed for each sample submitted and that all of the analyses requested on the COC form were performed. If discrepancies are noted, the laboratory will be contacted to resolve any issues.

Each data package will be validated and a DUSR will be prepared by the Environmental Consultant (i.e., not the laboratory). Any data that do not meet the specified standards will be flagged pending resolution of the issue. The flag will not be removed from the data until the issue associated with the sample results is resolved. Although flags may remain for certain data, the use of those data may not necessarily be restricted.

Following completion of the data validation, the digital files will be used to populate the appropriate database tables. An example of the format of EDD format is included in EQuIS™ SOP in Attachment A. This format specifies one data record for each constituent for each sample analyzed. Specific fields include:

- Sample identification number
- Date sampled

- Date analyzed
- Parameter name
- Analytical result
- Units
- Detection limit
- Qualifier(s)

The individual EDDs, supplied by the laboratory in EQUIS™ file format, will be loaded into the appropriate database. Any analytical data that cannot be provided by the laboratory in electronic format will be entered manually. After entry into the database, the EDD data will be compared to the field information previously entered into the database to confirm that all requested analytical data have been received.

14.4.6 Data Analysis and Reporting

The database management system will have several functions to facilitate the review and analysis of the data. Data entry screens will be developed to assist in the keypunching of field observations. Routines have been developed to permit the user to scan analytical data from a given site for a given media. Several output functions are also available that can be modified, as necessary, for use in the data management system.

A valuable function of the data management system will be the generation of tables of analytical results from the project databases. The capability of the data management system to directly produce tables reduces the redundant manual entry of analytical results during report preparation and precludes transcription errors that may occur otherwise. This data management system function creates a digital file of analytical results and qualifiers for a given media. The file can then be processed into a table of rows and columns that can be transferred to word processing software (e.g., Microsoft® Excel) for final formatting and addition of titles and notes. Tables of analytical data will be produced as part of data interpretation tasks and the reporting of data to the USEPA.

The data management system also has the capability of producing a digital file of select parameters that exists in one or more of the databases. This type of custom function is accomplished on an interactive basis and is best used for transferring select information into a number of analysis tools, such as statistical or graphing programs.

15 ASSESSMENT AND RESPONSE ACTIONS

Performance and systems audits will be completed in the field and the laboratory during the sampling, as described below.

15.1 Field Audits

Field performance audit summaries will contain an evaluation of field activities to verify that the activities are performed according to established protocols. Field performance audits may be performed by the Environmental Consultant, NYSDEC, or NYSEG. The auditor(s) will review field reports and communicate concerns, as appropriate. The observations made during field performance audits and any recommended changes/deviations to the field procedures will be recorded and documented.

In addition, systems audits comparing scheduled QA/QC activities from this QAPP with actual QA/QC activities completed will be performed. The PM and QAC may periodically confirm that work is being performed consistent with this QAPP.

15.2 Laboratory Audits

Internal audits are conducted by the laboratory consistent with their Quality Systems Manual. As part of the audit, the overall performance of the laboratory staff is evaluated and compared to the performance criteria outlined in the laboratory Quality Systems Manual and SOPs. The results of the audits are summarized and issues to each department supervisor, the laboratory manager, and the laboratory director. A systems audit of each laboratory may be performed by the Environmental Consultant's QAC to determine whether the procedures implemented by each laboratory are in compliance with the Quality Systems Manual and SOPs.

As a participant in state and federal certification programs, the laboratory is audited by representatives of the regulatory agency issuing certification. Audits are usually conducted on an annual basis and focus on laboratory conformance to the specific program protocols for which the laboratory is seeking certification. The auditor reviews sample handling and tracking documentation, analytical methodologies, analytical supportive documentation, and final reports. The audit findings are formally documented and submitted to the laboratory for corrective action, if necessary.

15.3 Corrective Action

Corrective actions are required when field or analytical data are not within the objectives specified in this QAPP, the FSP, or the SMP. Corrective actions include procedures to promptly investigate, document, evaluate, and correct data collection and/or analytical procedures. Field and laboratory corrective action procedures for the assessment are described below.

15.3.1 Field Procedures

If, during field work, a condition is noted by the field crew that would have an adverse effect on data quality, corrective action will be taken so as not to repeat this condition. Condition identification, cause, and corrective action implemented will be documented on a Corrective Action Form. The QAC or his designee will be responsible for follow-up and acceptance of corrective actions.

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Examples of situations that would require corrective actions are provided below:

- Protocols as defined by the QAPP have not been followed
- Equipment is not in proper working order or properly calibrated
- QC requirements have not been met
- Issues resulting from performance or systems audits

Project personnel will continuously monitor ongoing work performance in the normal course of daily responsibilities.

15.3.2 Laboratory Procedures

In the laboratory, when a condition is noted to have an adverse effect on data quality, corrective action will be taken so as not to repeat this condition. Condition identification, cause, and corrective action to be taken will be documented, and reported to the Environmental Consultant.

Corrective action may be initiated, at a minimum, under the following conditions:

- Protocols as defined by this QAPP have not been followed
- Predetermined data acceptance standards are not obtained
- Equipment is not in proper working order or calibrated
- Sample and test results are not completely traceable
- QC requirements have not been met
- Issues resulting from performance or systems audits

Laboratory personnel will continuously monitor ongoing work performance in the normal course of daily responsibilities. Corrective action will be initiated upon identification of the problem. At whatever level this occurs (analyst, supervisor, data review, or QC), it will be brought to the attention of the Laboratory QA Manager and, ultimately, the Laboratory Director. Final approval of any action deemed necessary is subject to the approval of the Laboratory Director. If previously reported data are affected by a situation requiring correction or if the corrective action impacts a project budget or schedule, the action will directly involve the PM (and QAC).

Corrective action deemed necessary based on system or performance audits, the analytical results of split samples, or the results of data review will be implemented. The corrective action may include sample re-extraction, re-preparation, reanalysis, cleanup, dilution, matrix modification, or other activities deemed necessary to assure usable analytical data.

16 REPORTS TO MANAGEMENT

The QAC will audit the implementation of the QAPP. Each project component will result in some type of QA report or, by its absence, will indicate that no significant QA or QC deviations occurred. Items that may result in a QA report include:

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- changes or updates to the QAPP
- deviations from QAPP or work plan specification
- results of system and performance audits
- significant QA/QC problems, recommended solutions and results of corrective actions
- limitations on the use of measurement data

16.1 Internal Reporting

The analytical laboratory will submit analytical reports to the Environmental Consultant for review. Supporting data (i.e., historic data, related field or laboratory data) will also be reviewed to evaluate data quality, as appropriate. The QAC will incorporate results of the data validation reports and assessments of data usability into a DUSR.

16.2 Field Reports

Reporting of the quality of field sample collection and field measurements will be the responsibility of the Field Supervisor or designee. Information from the field logbooks will be compiled, and a summary report on field activity QA will be prepared for the project file.

16.3 Laboratory Reports

The laboratory will maintain QA records related to analyses, QC and corrective action. This information will be made available to the PM upon request. Routine reporting will include documenting all internal QC checks performed for this project.

17 DATA REDUCTION AND REVIEW

After field and laboratory data are obtained, the data will be subject to the following:

- Review
- Data validation
- Reduction, or manipulation mathematically or otherwise into meaningful and useful forms.
- Organization, interpretation, and reporting.

17.1 Field Data Reduction and Review

17.1.1 Field Data Reduction

Information collected in the field through visual observation, manual measurement, and/or field instrumentation will be recorded in field notebooks, log sheets, and/or on forms. Such data will be reviewed for adherence to this QAPP and for consistency. Any concerns identified as a result of this review will be discussed with the field personnel, corrected if possible, and, as necessary, incorporated into the data evaluation process.

17.1.2 Field Data Review

Field data calculations, transfers, and interpretations will be conducted by the field personnel and reviewed for accuracy. Logs and documents will be checked for:

- General completeness.
- Readability.
- Usage of appropriate procedures.
- Appropriate instrument calibration and maintenance.
- Reasonableness in comparison to present and past data collected.
- Correct sample locations.
- Correct calculations and interpretations.

17.1.3 Field Data Reporting

Where appropriate, field data forms and calculations will be processed and included in appendices to the reports. The original field logs, documents, and data reductions will be kept in the project file.

17.2 Laboratory Data Reduction and Review

17.2.1 Laboratory Data Reduction

The calculations used for data reduction will be in accordance with the analytical methods. Whenever possible, analytical data will be transferred directly from the instrument to a computerized data system. Raw data will be entered into permanently bound laboratory notebooks. The data entered must be sufficient to document all factors used to arrive at the reported value.

Concentration calculations for chromatographic analyses will be based on response factors. Quantitation will be performed using internal standards for GC/MS methodology. Concentration calculations for metals and wet chemistry, if appropriate, will be based on linear regression.

Unless otherwise specified, all values will be reported uncorrected for blank contamination

17.2.2 Laboratory Data Review

Data will be subject to multi-level review by the laboratory. The group leader will review all data reports prior to release for final data report generation. The QA Manager will review the final data reports, and the Laboratory Director will review a cross section of the final data reports prior to release.

If discrepancies or deficiencies are present in the analytical results, corrective action will be taken. Deficiencies discovered as a result of internal data review, as well as the corrective actions to be used to rectify the situation, will be documented on a Corrective Action Form. This form will be submitted to the PM and QAC.

18 DATA VERIFICATION AND VALIDATION

For samples where a Category B report is requested, data validation will be conducted as outlined in USEPA Guidance on Environmental Data Verification and Data Validation EPA QA/G-8 (USEPA, 2002b).

Data validation is a standardized review process for judging the analytical quality and usefulness of a discrete set of chemical data and is necessary to ensure that data of known and documented quality are used in making environmental decisions that meet the DQOs of the Site. Data validation is a systematic process that compares a body of data to the requirements in a set of documented acceptance criteria to ascertain its completeness, correctness, and consistency. The data validation personnel will work independently from all other project teams. Data validators will not be involved in sampling or data analysis/reporting for the end user.

All data generated will be validated using the most recent versions of:

- The USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-2017-002, January 2017 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).
- The USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 540-R-2017-001, January 2017 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).
- USEPA SW-846 methodology.
- NYSDEC ASP (NYSDEC, 2005)
- QA/QC and reporting deliverables requirements for data validation available at the time of project initiation, where appropriate.

These procedures and criteria may be modified, as necessary, to address project-specific and method-specific criteria, control limits and procedures. Data validation will consist of data screening, checking, reviewing, editing and interpretation to document analytical data quality and to determine whether the quality is sufficient to meet the DQOs.

The data validator will verify that reduction of laboratory measurements and laboratory reporting of analytical parameters is in accordance with the procedures specified for each analytical method and/or as specified in this QAPP. Any deviations from the analytical method or any special reporting requirement apart from those specified in this QAPP will be detailed on COC forms.

Upon receipt of laboratory data, the following procedures will be executed by the data validator:

- Evaluate completeness of data package.
- Verify that field COC forms were completed and that samples were handled properly.
- Verify that holding times were met for each parameter. Holding time exceedances, if they occur, will be documented. Data for all samples exceeding holding time requirements will be flagged as either estimated or rejected. The decision as to which qualifier is more appropriate will be made on a case-by-case basis.

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- Verify that parameters were analyzed according to the methods specified.
- Review QA/QC data (i.e., confirm that duplicates, blanks and LCS were analyzed for the required number of samples, as specified in the method and verify that duplicate RPDs are acceptable).
- Investigate anomalies identified during review. When anomalies are identified, they will be discussed with the PM and/or Laboratory Manager, as appropriate.

Deficiencies discovered as a result of the data review, as well as the corrective actions implemented in response, will be documented and submitted in the form of a written report addressing the following topics, as applicable to each method:

- Assessment of the data package
- Description of any protocol deviations
- Failures to reconcile reported and/or raw data
- Assessment of any compromised data
- Laboratory case narrative
- Overall appraisal of the analytical data
- Table of site name, sample quantities, data submitted to the laboratory, year of protocol used, matrix, and fractions analyzed

18.1 Data Verification

It should be noted that qualified results for not necessarily invalidate data. The goal to produce the best possible data does not necessarily mean that data must be produced without QC qualifiers. Qualified data can provide useful information.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results will be qualified with the following codes in accordance with the National Functional Guidelines:

Qualifier	Definition
Concentration Qualifiers (Laboratory Assigned)	
U	The analyte/compound was analyzed for but not detected. The associated value is the compound RL.
B	The analyte/compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect. (Note: laboratory assigned B qualifiers will be removed during data validation in the event that the concentration detected in the sample is greater than five-times the concentration detected in the associated blank.)
J	The analyte/compound was positively identified; however, the associated numerical value is an estimated concentration only.

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Qualifier	Definition
Quantitation Qualifiers (Laboratory Assigned)	
E	The compound was quantitated above the calibration range.
D	Concentration is based on a diluted sample analysis.
P	The lower of the two values is reported when the percent difference between the results of two GC columns is greater than 40 percent.
Validation Qualifiers	
UJ	The analyte/compound was not detected above the reported sample quantitation limit; however, the reported limit is approximate and may or may not represent the actual RL.
UB	The analyte/compound is considered non-detect at the listed value due to associated blank contamination (i.e., concentration in the sample is less than five-times the concentration detected in the associated blank).
J	The analyte/compound was positively identified; however, the associated numerical value is an estimated concentration.
R	The sample results are rejected.

Two facts will be noted to all data users:

- The “R” qualifier means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort.
- No compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Resolution of any issues regarding laboratory performance or deliverables will be handled between the laboratory and the data validator. Suggestions for reanalysis may be made by the QAC at this point.

Data validation reports will be kept in electronic format (e.g., PDF) at the Environmental Consultant’s office.

19 RECONCILIATION WITH USER REQUIREMENTS

The data results will be examined to determine the performance that was achieved for each data quality indicator. The performance will then be compared with the project objective and DQOs. Of particular note will be samples at or near action levels. All deviations from objectives will be noted. Additional action may be warranted when performance does not meet performance objectives for critical data. Options for corrective action relating to incomplete information, questionable results, or inconsistent data may include the following:

- Retrieval of missing information;
- Request for additional explanation or clarification;
- Reanalysis of sample from extract (when appropriate); and
- Recalculation or reinterpretation of results by the laboratory.

These actions may improve the data quality, reduce uncertainty, and eliminate the need to qualify or reject data.

If these actions do not improve the data quality to an acceptable level, the following additional actions may be taken:

- Extrapolation of missing data from existing data points
- Use of historical data
- Evaluation of the critical/non-critical nature of the sample

If the data gap cannot be resolved by these actions, an evaluation of the data bias and potential for false negatives and positives can be performed. If the resultant uncertainty level is unacceptable, additional sample collection and analysis may be required.

20 REFERENCES

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- NYSDEC 2006. 6 NYCRR Part 375 Environmental Remediation Programs. December 14, 2006.
- NYSDEC 2010. Technical Guidance for Site Investigation and Remediation. DER-10. May 3, 2010.
- USEPA 1999. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. EPA-540-R-99-008. October 1999.
- USEPA 2001. EPA Requirements for Quality Assurance Project Plans. EPA-QA/R-5. Office of Environmental Information. March 2001.
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- USEPA, 2002b. Guidance on Environmental Data Verification and Data Validation EPA QA/G-8, Office of Environmental Information. November 2002.
- USEPA 2002c. USEPA Guidance on Choosing a Sampling Design for Environmental Data Collection for Use in Developing a Quality Assurance Project Plan, EPA QA/G-5S. December 2002.
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- USEPA 2006. Guidance on Systematic Planning Using the Data Quality Objectives Process. EPA-QA/G-4. February 2006.
- USEPA 2015. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. EPA Publication SW-846, Third Edition, Final Update V. 2015.
- USEPA 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-540-R-2017-001. January 2017.
- USEPA 2017. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-2017-002. January 2017.

TABLES



Table 1a
Parameters, Methods, and Target Quantitation Limits
(Soil)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (mg/Kg) ¹	Laboratory MDL (mg/kg) ^{2,3,4}	Laboratory RL (mg/kg) ^{2,3,4}
VOCs (SW-846 8260C)				
1,1,1-Trichloroethane	71-55-6	500	0.000363	0.005
1,1,2,2-Tetrachloroethane	79-34-5	--	0.000811	0.005
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	--	0.00114	0.005
1,1,2-Trichloroethane	79-00-5	--	0.00065	0.005
1,1-Dichloroethane	75-34-3	240	0.00061	0.005
1,1-Dichloroethene	75-35-4	500	0.000612	0.005
1,2,4-Trichlorobenzene	120-82-1	--	0.000304	0.005
1,2-Dibromo-3-chloropropane	96-12-8	--	0.0025	0.005
1,2-Dibromoethane	106-93-4	--	0.000642	0.005
1,2-Dichlorobenzene	95-50-1	500	0.000391	0.005
1,2-Dichloroethane	107-06-2	30	0.000251	0.005
1,2-Dichloropropane	78-87-5	--	0.0025	0.005
1,3-Dichlorobenzene	541-73-1	280	0.000257	0.005
1,4-Dichlorobenzene	106-46-7	130	0.0007	0.005
2-Butanone	78-93-3	500	0.00183	0.025
2-Hexanone	591-78-6	--	0.0025	0.025
4-Methyl-2-pentanone	108-10-1	--	0.00164	0.025
Acetone	67-64-1	500	0.00421	0.025
Benzene	71-43-2	44	0.000245	0.005
Bromodichloromethane	75-27-4	--	0.00067	0.005
Bromoform	75-25-2	--	0.0025	0.005
Bromomethane	74-83-9	--	0.00045	0.005
Carbon disulfide	75-15-0	--	0.0025	0.005
Carbon tetrachloride	56-23-5	22	0.000484	0.005
Chlorobenzene	108-90-7	500	0.00066	0.005
Chloroethane	75-00-3	--	0.00113	0.005
Chloroform	67-66-3	350	0.000309	0.005
Chloromethane	74-87-3	--	0.000302	0.005
cis-1,2-Dichloroethene	156-59-2	500	0.00064	0.005
cis-1,3-Dichloropropene	10061-01-5	--	0.00072	0.005
Cyclohexane	110-82-7	--	0.0007	0.005
Dibromochloromethane	124-48-1	--	0.00064	0.005
Dichlorodifluoromethane	75-71-8	--	0.000413	0.005
Ethylbenzene	100-41-4	390	0.000345	0.005
Isopropylbenzene	98-82-8	--	0.000754	0.005
Methyl acetate	79-20-9	--	0.00302	0.025
Methyl tert-butyl ether	1634-04-4	500	0.000491	0.005
Methylcyclohexane	108-87-2	--	0.00076	0.005
Methylene chloride	75-09-2	500	0.0023	0.005
m,p-Xylene	179601-23-1	500	0.00084	0.01
o-Xylene	95-47-6	500	0.000653	0.005
Styrene	100-42-5	--	0.00025	0.005
Tetrachloroethene	127-18-4	150	0.000671	0.005
Toluene	108-88-3	500	0.000378	0.005
trans-1,2-Dichloroethene	156-60-5	500	0.000516	0.005
trans-1,3-Dichloropropene	10061-02-6	--	0.0022	0.005
Trichloroethene	79-01-6	200	0.0011	0.005
Trichlorofluoromethane	75-69-4	--	0.000473	0.005
Vinyl chloride	75-01-4	13	0.00061	0.005

Table 1a
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Dansville, New York

Analyte	CAS Number	Action Limit (mg/Kg) ¹	Laboratory MDL (mg/kg) ^{2,3,4}	Laboratory RL (mg/kg) ^{2,3,4}
SVOCs (SW-846 8270D)				
1,1'-Biphenyl	92-52-4	--	0.025	0.17
2,2-Oxybis(1-chloropropane)	108-60-1	--	0.034	0.17
2,4,5-Trichlorophenol	95-95-4	--	0.046	0.17
2,4,6-Trichlorophenol	88-06-2	--	0.034	0.17
2,4-Dichlorophenol	120-83-2	--	0.018	0.17
2,4-Dimethylphenol	105-67-9	--	0.041	0.17
2,4-Dinitrophenol	51-28-5	--	0.784	1.66
2,4-Dinitrotoluene	121-14-2	--	0.035	0.17
2,6-Dinitrotoluene	606-20-2	--	0.02	0.17
2-Chloronaphthalene	91-58-7	--	0.028	0.17
2-Chlorophenol	95-57-8	--	0.031	0.33
2-Methylnaphthalene	91-57-6	--	0.034	0.17
2-Methylphenol	95-48-7	500	0.02	0.17
2-Nitroaniline	88-74-4	--	0.025	0.33
2-Nitrophenol	88-75-5	--	0.048	0.17
3,3'-Dichlorobenzidine	91-94-1	--	0.2	0.33
3-Nitroaniline	99-09-2	--	0.047	0.33
4,6-Dinitro-2-methylphenol	534-52-1	--	0.17	0.33
4-Bromophenyl-phenylether	101-55-3	--	0.024	0.17
4-Chloro-3-methylphenol	59-50-7	--	0.042	0.17
4-Chloroaniline	106-47-8	--	0.042	0.17
4-Chlorophenyl-phenylether	7005-72-3	--	0.021	0.17
3&4-Methylphenol	108-39-4 / 106-44-5	500	0.02	0.33
4-Nitroaniline	100-01-6	--	0.089	0.33
4-Nitrophenol	100-02-7	--	0.119	0.33
Acenaphthene	83-32-9	500	0.025	0.17
Acenaphthylene	208-96-8	500	0.022	0.17
Acetophenone	98-86-2	--	0.023	0.17
Anthracene	120-12-7	500	0.042	0.17
Atrazine	1912-24-9	--	0.059	0.17
Benzaldehyde	100-52-7	--	0.135	0.17
Benzo(a)anthracene	56-55-3	5.6	0.017	0.17
Benzo(a)pyrene	50-32-8	1.0	0.025	0.17
Benzo(b)fluoranthene	205-99-2	5.6	0.027	0.17
Benzo(g,h,i)perylene	191-24-2	500	0.018	0.17
Benzo(k)fluoranthene	207-08-9	56	0.022	0.17
bis(2-Chloroethoxy)methane	111-91-1	--	0.036	0.17
bis(2-Chloroethyl)ether	111-44-4	--	0.022	0.17
bis(2-Ethylhexyl)phthalate	117-81-7	--	0.058	0.17
Butylbenzylphthalate	85-68-7	--	0.028	0.17
Caprolactam	105-60-2	--	0.051	0.17
Carbazole	86-74-8	--	0.02	0.17
Chrysene	218-01-9	56	0.038	0.17
Dibenzo(a,h)anthracene	53-70-3	0.6	0.03	0.17
Dibenzofuran	132-64-9	350	0.02	0.17
Diethylphthalate	84-66-2	--	0.022	0.17
Dimethylphthalate	131-11-3	--	0.02	0.17
Di-n-butylphthalate	84-74-2	--	0.029	0.17
Di-n-octylphthalate	117-84-0	--	0.02	0.17

Table 1a
Parameters, Methods, and Target Quantitation Limits
(Soil)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (mg/Kg) ¹	Laboratory MDL (mg/kg) ^{2,3,4}	Laboratory RL (mg/kg) ^{2,3,4}
Fluoranthene	206-44-0	500	0.018	0.17
Fluorene	86-73-7	500	0.02	0.17
Hexachlorobenzene	118-74-1	6.0	0.023	0.17
Hexachlorobutadiene	87-68-3	--	0.025	0.17
Hexachlorocyclopentadiene	77-47-4	--	0.023	0.17
Hexachloroethane	67-72-1	--	0.022	0.17
Indeno(1,2,3-cd)pyrene	193-39-5	5.6	0.021	0.17
Isophorone	78-59-1	--	0.036	0.17
Naphthalene	91-20-3	500	0.022	0.17
Nitrobenzene	98-95-3	--	0.019	0.17
N-Nitrosodiphenylamine	86-30-6	--	0.138	0.17
N-Nitroso-di-n-propylamine	621-64-7	--	0.029	0.17
Pentachlorophenol	87-86-5	6.7	0.17	0.33
Phenanthrene	85-01-8	500	0.025	0.17
Phenol	108-95-2	500	0.026	0.17
Pyrene	129-00-0	500	0.02	0.17
PCBs (SW-846 8082A)				
Aroclor-1016	12674-11-2	--	0.0489	0.25
Aroclor-1221	11104-28-2	--	0.0489	0.25
Aroclor-1232	11141-16-5	--	0.0489	0.25
Aroclor-1242	53469-21-9	--	0.0489	0.25
Aroclor-1248	12672-29-6	--	0.0489	0.25
Aroclor-1254	11097-69-1	--	0.117	0.25
Aroclor-1260	11096-82-5	--	0.117	0.25
Total PCBs	1336-36-3	1.0	--	--
Pesticides (SW-846 8081B)				
4,4'-DDD	72-54-8	92	0.000324	0.00167
4,4'-DDE	72-55-9	62	0.00035	0.00167
4,4'-DDT	50-29-3	47	0.00039	0.00167
Aldrin	309-00-2	0.7	0.00041	0.00167
alpha-BHC	319-84-6	3.4	0.0003	0.00167
alpha-Chlordane	5103-71-9	24	0.00083	0.00167
beta-BHC	319-85-7	3.0	0.0003	0.00167
delta-BHC	319-86-8	500	0.00031	0.00167
Dieldrin	60-57-1	1.4	0.0004	0.00167
Endosulfan I	959-8-8	200	0.00032	0.00167
Endosulfan II	33213-65-9	200	0.0003	0.00167
Endosulfan sulfate	1031-07-8	200	0.000311	0.00167
Endrin	72-20-8	89	0.00033	0.00167
Endrin aldehyde	7421-93-4	--	0.000426	0.00167
Endrin ketone	53494-70-5	--	0.00041	0.00167
gamma-BHC (Lindane)	58-89-9	9.2	0.000305	0.00167
gamma-Chlordane	5103-74-2	--	0.00053	0.00167
Heptachlor	76-44-8	150	0.000361	0.00167
Heptachlor epoxide	1024-57-3	--	0.00043	0.00167
Methoxychlor	72-43-5	--	0.00034	0.00167
Toxaphene	8001-35-2	--	0.0097	0.0167
Herbicides (SW-846 8151A)				
2,4-D	94-75-7	--	0.0105	0.0167
2,4,5-TP (Silvex)	93-72-1	500	0.006	0.0167

Table 1a
Parameters, Methods, and Target Quantitation Limits
(Soil)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (mg/Kg) ¹	Laboratory MDL (mg/kg) ^{2,3,4}	Laboratory RL (mg/kg) ^{2,3,4}
Metals (SW-846 6010C/7471B)				
Aluminum	7429-90-5	--	4,400	10,000
Antimony	7440-36-0	--	400	15,000
Arsenic	7440-38-2	16	400	2,000
Barium	7440-39-3	400	110	500
Beryllium	7440-41-7	590	28	200
Cadmium	7440-43-9	9.3	30	200
Calcium	7440-70-2	--	3,300	50,000
Chromium	7440-47-3	400	200	500
Cobalt	7440-48-4	--	50	500
Copper	7440-50-8	270	210	1,000
Iron	7439-89-6	--	3,500	10,000
Lead	7439-92-1	1,000	240	1,000
Magnesium	7439-95-4	--	927	20,000
Manganese	7439-96-5	10,000	32	200
Nickel	7440-02-0	310	230	5,000
Potassium	7440-09-7	--	20,000	30,000
Selenium	7782-49-2	1,500	400	4,000
Silver	7440-22-4	1,500	200	600
Sodium	7440-23-5	--	13,000	140,000
Thallium	7440-28-0	--	300	6,000
Vanadium	7440-62-2	--	110	500
Zinc	7440-66-6	10,000	0.64	2
Mercury	7439-97-6	3	0.0081	0.02
General Chemistry				
Cyanide (SW-846 9012B)	57-12-5	27	0.483	1.0

Notes:

¹ 6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives for Protection of Public Health - Commercial Use, NYSDEC, December 2006. "NS" indicates that there is no criteria listed for the analyte. Criteria is applicable to Imported Backfill samples only.

² Concentrations detected less than the reporting limit but greater than the method detection limit must be reported with the appropriate qualifier.

³ The laboratory limits were provided by Eurofins TestAmerica are current as of the writing of the QAPP. The samples will be reported using the current limits at the time of the analysis.

⁴ The target reporting limits are based on wet weight. The actual reporting limits will vary based on sample weight and moisture content.

Abbreviations and Acronyms

-- = not applicable

MDL = method detection limit

mg/kg = micrograms per kilogram

PCB = polychlorinated biphenyls

RL = reporting limit

SVOCs = semivolatile organic compounds

VOCs = volatile organic compounds

Table 1b
Parameters, Methods, and Target Quantitation Limits
(Water)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (ug/L) ^{1,2}	Laboratory MDL (ug/L) ^{3,4}	Laboratory RL (ug/L) ^{3,4}
BTEX (SW-846 8260C)				
Benzene	71-43-2	500	0.41	1.00
Ethylbenzene	100-41-4	--	0.74	1.00
Toluene	108-88-3	--	0.51	1.00
Xylene, Total	1330-20-7	--	0.66	2.00
PAHs (SW-846 8270D)				
1-Methylnaphthalene	90-12-0	--	0.73	5.00
2-Methylnaphthalene	91-57-6	--	0.60	5.00
Acenaphthene	83-32-9	--	0.41	5.00
Acenaphthylene	208-96-8	--	0.38	5.00
Anthracene	120-12-7	--	0.28	5.00
Benzo(a)anthracene	56-55-3	--	0.36	5.00
Benzo(a)pyrene	50-32-8	--	0.47	5.00
Benzo(b)fluoranthene	205-99-2	--	0.34	5.00
Benzo(g,h,i)perylene	191-24-2	--	0.35	5.00
Benzo(k)fluoranthene	207-08-9	--	0.73	5.00
Chrysene	218-01-9	--	0.33	5.00
Dibenzo(a,h)anthracene	53-70-3	--	0.42	5.00
Fluoranthene	206-44-0	--	0.40	5.00
Fluorene	86-73-7	--	0.36	5.00
Indeno(1,2,3-cd)pyrene	193-39-5	--	0.47	5.00
Naphthalene	91-20-3	--	0.76	5.00
Phenanthrene	85-01-8	--	0.44	5.00
Pyrene	129-00-0	--	0.34	5.00

Notes:

¹ BTEX and PAH analyses will be performed in association with Documentation/Reuse Samples. The project action limits are <500 ug/L for Benzene.

² Groundwater screening criteria correspond to the NYSDEC's Division of Water, Technical and Operational Guidance Series (TOGS) 1.1.1, Class GA Standards.

³ Concentrations detected less than the reporting limit but greater than the method detection limit must be reported with the appropriate qualifier.

⁴ The laboratory limits were provided by Eurofins TestAmerica and are current as of the writing of the QAPP. The samples will be reported using the current limits at the time of the analysis.

Abbreviations and Acronyms

-- = not applicable

BTEX = benzene, toluene, ethylbenzene, and xylenes

MDL = method detection limit

PAHs = polynuclear aromatic hydrocarbon compounds

RL = reporting limit

ug/L = micrograms per liter

Table 1c
Parameters, Methods, and Target Quantitation Limits
(Ambient Air, Indoor Air, Soil Vapor)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Volatile Organic Chemicals	CAS #	Laboratory RL (ug/m ³) - Soil Vapor ¹	Laboratory RL (ug/m ³) - Indoor Air ¹
VOCs (EPA Air Method, Toxic Organics-15 [TO-15])			
1,1,1-Trichloroethane	71-55-6	1.09	1.09
1,1,2,2-Tetrachloroethane	79-34-5	1.37	1.37
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	1.53	1.53
1,1,2-Trichloroethane	79-00-5	1.09	1.09
1,1-Dichloroethane	75-34-3	0.809	0.809
1,1-Dichloroethene	75-35-4	0.793	0.793
1,2,4-Trichlorobenzene	120-82-1	3.71	3.71
1,2,4-Trimethylbenzene	95-63-6	0.983	0.983
1,2-Dibromoethane	106-93-4	1.54	1.54
1,2-Dichlorobenzene	95-50-1	1.20	1.20
1,2-Dichloroethane	107-06-2	0.809	0.809
1,2-Dichloropropane	78-87-5	0.924	0.924
1,3,5-Trimethylbenzene	108-67-8	0.983	0.983
1,3-Butadiene	106-99-0	0.442	0.442
1,3-Dichlorobenzene	541-73-1	1.20	1.20
1,4-Dichlorobenzene	106-67-8	1.20	1.20
1,4-Dioxane	123-91-1	18.0	18.0
2,2,4-Trimethylpentane	540-84-1	0.934	0.934
2-Butanone	78-93-3	1.47	1.47
2-Hexanone	591-78-6	2.050	2.050
4-Ethyltoluene	622-96-8	0.983	0.983
4-Methyl-2-pentanone	108-10-1	2.05	2.05
Acetone	67-64-1	11.90	11.90
Benzene	71-43-2	0.639	0.639
Bromodichloromethane	75-27-4	1.34	1.34
Bromoform	75-25-2	2.07	2.07
Bromomethane	74-83-9	0.777	0.777
Carbon disulfide	75-15-0	1.560	1.560
Carbon tetrachloride	56-23-5	1.26	1.26
Chlorobenzene	108-90-7	0.921	0.921
Chloroethane	75-00-3	1.320	1.320
Chloroform	67-66-3	0.977	0.977
Chloromethane	74-87-3	1.030	1.030
cis-1,2-Dichloroethene	156-59-2	0.793	0.793
cis-1,3-Dichloropropene	10061-01-5	0.908	0.908
Cyclohexane	110-82-7	0.688	0.688
Dibromochloromethane	124-48-1	1.70	1.70
Dichlorodifluoromethane	75-71-8	2.470	2.470
Ethanol	64-17-5	5.00	5.00
Ethylbenzene	100-41-4	0.868	0.868
Freon 114	76-14-2	1.40	1.40
Heptane	142-82-5	0.820	0.820
Hexachlorobutadiene	87-68-3	2.13	2.13
m&p-Xylenes	108-38-3	2.17	2.17

Table 1c
Parameters, Methods, and Target Quantitation Limits
(Ambient Air, Indoor Air, Soil Vapor)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Volatile Organic Chemicals	CAS #	Laboratory RL (ug/m ³) - Soil Vapor ¹	Laboratory RL (ug/m ³) - Indoor Air ¹
Methyl tert-butyl ether	1634-04-4	0.721	0.721
Methylene Chloride	75-09-2	1.74	1.74
n-Hexane	110-54-3	0.705	0.705
o-Xylene	95-47-6	0.868	0.868
Styrene	100-42-5	0.852	0.852
Tetrachloroethene	127-18-4	1.36	1.36
Tetrahydrofuran	109-99-9	14.70	14.70
Toluene	108-88-3	0.754	0.754
trans-1,2-Dichloroethene	156-60-5	0.793	0.793
trans-1,3-Dichloropropene	10061-02-6	0.908	0.908
Trichloroethene	79-01-6	1.07	1.07
Trichlorofluoromethane	75-69-4	1.12	1.12
Vinyl chloride	75-01-4	0.511	0.511

Notes:

¹ The laboratory limits were provided by Eurofins TestAmerica and are current as of the writing of the QAPP. Samples will be reported using the current limits at the time of the analysis.

Abbreviations and Acronyms

CAS = Chemical Abstracts Service.

RL = reporting limit

ug/m³ = micrograms per cubic meter.

Table 1d
Parameters, Methods, and Target Quantitation Limits
(Solid Waste Characterization)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (mg/L) ¹	Laboratory MDL (mg/L) ^{2,3}	Laboratory RL (mg/L) ^{2,3}
TCLP VOCs (SW-846 1311/8260C)				
Benzene	71-43-2	0.5	0.00029	0.001
2-Butanone	78-93-3	200	0.00132	0.005
Carbon tetrachloride	56-23-5	0.5	0.00027	0.001
Chlorobenzene	108-90-7	100	0.00075	0.001
Chloroform	67-66-3	6.0	0.00034	0.001
1,2-Dichloroethane	107-06-2	0.5	0.00021	0.001
1,1-Dichloroethene	75-35-4	0.7	0.00029	0.001
Tetrachloroethene	127-18-4	0.7	0.00036	0.001
Trichloroethene	79-01-6	0.5	0.00046	0.001
Vinyl chloride	75-01-4	0.2	0.00090	0.001
TCLP SVOCs (SW-846 1311/8270D)				
1,4-Dichlorobenzene	106-46-7	7.5	0.0018	0.040
2,4-Dinitrotoluene	121-14-2	0.13	0.0017	0.020
Hexachlorobenzene	118-74-1	0.13	0.0023	0.020
Hexachlorobutadiene	87-68-3	0.5	0.0027	0.020
Hexachloroethane	67-72-1	3	0.0023	0.020
2-Methylphenol	95-48-7	200	0.0016	0.020
3&4-Methylphenol	108-39-4 / 106-44-5	200	0.0016	0.040
Nitrobenzene	98-95-3	2	0.0011	0.020
Pentachlorophenol	87-86-5	100	0.0088	0.040
Pyridine	110-86-1	5	0.0016	0.100
2,4,5-Trichlorophenol	95-95-4	400	0.0019	0.020
2,4,6-Trichlorophenol	88-06-2	2	0.0024	0.020
TCLP Metals (SW-846 1311/6010C/7470A)				
Arsenic	7440-38-2	5.0	0.0056	0.015
Barium	7440-39-3	100	0.1000	1.00
Cadmium	7440-43-9	1.0	0.0005	0.002
Chromium	7440-47-3	5.0	0.0100	0.02
Lead	7439-92-1	5.0	0.0030	0.02
Mercury	7439-97-6	0.2	0.00012	0.0002
Selenium	7782-49-2	1.0	0.0087	0.025
Silver	7440-22-4	5.0	0.0017	0.006
General Chemistry				
Cyanide (SW-846 9012B)	57-12-5	--	0.483	1.0
Reactive Cyanide (SW-846 9014)	57-12-5	10 mg/L	10	10
Reactive Sulfide (SW-846 9034)	NA	10 mg/L	10	10
Flashpoint (SW-846 1030)	NA	> 140 deg F	--	--
pH (SW-846 9045D)	NA	< 2 or > 12.5	--	--

Table 1d
Parameters, Methods, and Target Quantitation Limits
(Solid Waste Characterization)
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Analyte	CAS Number	Action Limit (mg/kg) ¹	Laboratory MDL (mg/kg) ^{2,3}	Laboratory RL (mg/kg) ^{2,3}
PCBs (SW-846 8082A)				
Aroclor-1016	12674-11-2	--	0.049	0.25
Aroclor-1221	11104-28-2	--	0.049	0.25
Aroclor-1232	11141-16-5	--	0.049	0.25
Aroclor-1242	53469-21-9	--	0.049	0.25
Aroclor-1248	12672-29-6	--	0.049	0.25
Aroclor-1254	11097-69-1	--	0.117	0.25
Aroclor-1260	11096-82-5	--	0.117	0.25
Total PCBs	1336-36-3	50	--	--
TPH (SW-846 8015B)				
TPH-GRO (C6-C10)	NA	--	0.330	1.25
TPH-DRO (C10-C28)	NA	--	5.0	16.7

Notes:

¹ Waste characterization screening criteria reflect 40 CFR 261, Appendix II, 1993 ed., as amended by 58 FR 46040, August 31, 1993.

² Concentrations detected less than the reporting limit but greater than the method detection limit must be reported with the appropriate qualifier.

³ The laboratory limits were provided by Eurofins TestAmerica are current as of the writing of the QAPP. Samples will be reported using the current limits at the time of the analysis.

Abbreviations and Acronyms

-- = not applicable

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

MDL = method detection limit

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

PCB = polychlorinated biphenyls

RL = reporting limit

SVOCs = semivolatile organic compounds

TCLP = toxicity characteristic leaching procedure

VOCs = volatile organic compounds

Table 2
Sample Containers, Preservation, and Holding Times
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Parameter	Method	Bottle Type ¹	Preservation	Holding Time ²
Soil				
VOCs	SW-846 8260C	3-EnCore™ samplers and 2 oz vial for moisture	Cool to <6°C	48 hours to preservation
			DI Water; Methanol	14 days to analysis
SVOCs	SW-846 8270D	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to extraction
				40 days to analysis
PCBs	SW-846 8082A	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to extraction
				40 days to analysis
Pesticides	SW-846 8081B	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to extraction
				40 days to analysis
Herbicides	SW-846 8151A	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to extraction
				40 days to analysis
Metals	SW-846 6010C	1-4oz wide mouth glass jar	Cool to <6°C	180 days to analysis
Mercury	SW-846 7471B			28 days to analysis
Cyanide	SW-846 9012B	1-4oz wide mouth glass jar	Cool to <6°C	14 days to analysis
Water				
BTEX	SW-846 8260C	2-40ml glass vials with Teflon®-lined lid	HCl to pH<2	14 days to analysis
			Cool to <6°C	
PAHs	SW-846 8270D	2-1 L amber glass bottle with Teflon®-lined lid	Cool to <6°C	7 days to extraction
				40 days to analysis
Ambient Air, Indoor Air, Soil Vapor				
VOCs	TO-15	1-1 L Summa® Canister or 1-6 L Summa® Canister	Pressure Difference Between Sampling and Analysis ≤5 psi	28 days to analysis
Waste Characterization				
TCLP VOCs	SW-846 1311/8260C	1-4oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to TCLP extraction
				14 days to analysis
TCLP SVOCs	SW-846 1311/8270D	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	14 days to TCLP extraction
				7 days to extract prep
				40 days to analysis

Table 2
Sample Containers, Preservation, and Holding Times
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Parameter	Method	Bottle Type ¹	Preservation	Holding Time ²
TCLP Metals	SW-846 1311/6010C	1-4oz wide mouth glass jar	Cool to <6°C	180 days to TCLP extraction
TCLP Mercury	SW-846 1311/7470A			180 days to analysis
PCBs	SW-846 8082A	1-8oz glass jar with Teflon®-lined lid	Cool to <6°C	28 days to TCLP extraction
TPH-GRO	SW-846 8015	3-EnCore™ samplers and 2 oz vial for moisture	Cool to <6°C	28 days to analysis
TPH-DRO	SW-846 8015	1-8oz glass jar with Teflon®-lined lid	DI Water; Methanol	14 days to extraction
Cyanide	SW-846 9012B	1-4oz wide mouth glass jar	Cool to <6°C	40 days to analysis
Reactivity (Cyanide)	SW-846 9014	1-4oz wide mouth glass jar	Cool to <6°C	48 hours to preservation
Reactivity (Sulfide)	SW-846 9034	1-4oz wide mouth glass jar	Cool to <6°C	14 days to analysis
Flashpoint	SW-846 1030	1-4oz wide mouth glass jar	Cool to <6°C	14 days to analysis
pH	SW-846 9045D	1-4oz wide mouth glass jar	Cool to <6°C	7 days to analysis
				14 days to analysis
				24 hours to analysis

Notes:

¹ The laboratory should be consulted prior to sample collection, as it may be possible to combine sample volume for multiple analyses in one sample container.

² All holding times are measured from date of collection. It is imperative that all samples are submitted to the laboratory with ample time for the analysis to be completed within the holding time. Missing a holding time is unacceptable and may result in unusable data if the holding time is missed.

Abbreviations and Acronyms

≤ = less than or equal to

BTEX = benzene, toluene, ethylbenzene, and xylenes

DI = deionized

DRO = diesel range organics

GRO = gasoline range organics

HCl = hydrochloric acid

L = Liter

ml = milliliter

°C = degrees Celsius

oz = ounce

PAHs = polynuclear aromatic hydrocarbon compounds

PCB = Polychlorinated Biphenyls

psi = pounds per square inch

SVOCs = semivolatile organic compounds

TCLP = toxicity characteristic leaching procedure

TO-15 = EPA Air Method, Toxic Organics-15

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

Table 3
Sample Quantities and Quality Control Frequencies
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Parameter	Field QC Analyses						Laboratory QC Sample					
	Trip Blank		Rinse Blank		Field Duplicate		MS		MSD		Lab Duplicate	
	Freq.	No.	Freq.	No.	Freq.	No.	Freq.	No.	Freq.	No.	Freq.	No.
Soil												
VOCs (SW-846 8260C)	1/cooler	TBD	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
SVOCs (SW-846 8270D)	NA	--	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
PCBs (SW-846 8082A)	NA	--	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
Pesticides (SW-846 8081B)	NA	--	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
Herbicides (SW-846 8151A)	NA	--	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
Metals (SW-846 6010C)	NA	--	NA	--	1/20	TBD	1/20	TBD	NA	--	1/20	TBD
Mercury (SW-846 7471B)	NA	--	NA	--	1/20	TBD	1/20	TBD	NA	--	1/20	TBD
Cyanide (SW-846 9012)	NA	--	NA	--	1/20	TBD	1/20	TBD	NA	--	1/20	TBD
Water												
BTEX (SW-846 8260C)	1/cooler	TBD	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
PAHs (SW-846 8270D)	NA	--	NA	--	1/20	TBD	1/20	TBD	1/20	TBD	NA	--
Ambient Air, Indoor Air, Soil Vapor												
VOCs (USEPA TO-15)	NA	--	NA	--	1/20	TBD	NA	--	NA	--	NA	--
Solid Waste Characterization												
TCLP VOCs (SW-846 1311/8260C)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
TCLP SVOCs (SW-846 1311/8270D)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
TCLP Metals (SW-846 1311/6010C)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
TCLP Mercury (SW-846 1311/7470A)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
PCBs (SW-846 8082A)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
TPH-GRO and TPH-DRO (SW-846 8015)	NA	--	NA	--	1/20	--	NA	--	NA	--	NA	--
Reactivity (Cyanide) (SW-846 9014)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Reactivity (Sulfide) (SW-846 9034)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
Flashpoint (SW-846 1030)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
pH (SW-846 9045D)	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--

Abbreviations and Acronyms

BTEX = benzene, toluene, ethylbenzene, and xylenes
 BTU = British Thermal Unit
 DRO = diesel range organics
 USEPA = United States Environmental Protection Agency
 Freq = frequency
 GRO = gasoline range organics
 MS = matrix Spike
 MSD = matrix spike duplicate
 NA = not Applicable
 No. = number
 QC = quality control
 PAH = polynuclear aromatic hydrocarbons
 PCB = polychlorinated biphenyls
 SVOCs = semivolatile organic compounds
 TBD = to be determined
 TCLP = toxicity characteristic leaching procedure
 TO-15 = USEPA Air Method, Toxic Organics-15
 TPH = total petroleum hydrocarbons
 VOCs = volatile organic compounds

Table 4
Laboratory Quality Control Limits
Quality Assurance Project Plan
NYSEG - Dansville Former MGP Site
Dansville, New York

Parameter	Accuracy - Percent Recovery			Precision - Relative Percent Difference		
	Surrogate	MS/MSD	LCS	MS/MSD	Laboratory Duplicate	Field Duplicate
Soil						
VOCs (SW-846 8260C)	60-144	37-146	37-146	30	--	50
SVOCs (SW-846 8270D)	52-130	10-150	10-150	30	--	50
PCBs (SW-846 8082A)	60-174	33-200	51-184	30	--	50
Pesticides (SW-846 8081B)	30-124	27-150	37-133	30	--	50
Herbicides (SW-846 8151A)	28-129	22-140	39-125	30	--	50
Metals (SW-846 6010C)	--	75-125	27-174	--	20	50
Mercury (SW-846 7471B)	--	75-125	51-149	--	20	50
Cyanide (SW-846 9012B)	--	85-115	29-122	--	20	50
TPH-GRO (SW-846 8015)	46-156	41-142	46-129	30	--	--
TPH-DRO (SW-846 8015)	48-125	43-150	63-127	30	--	--
TCLP VOCs (SW-846 1311/8260C)	73-123	57-140	57-140	30	--	--
TCLP SOVCs (SW-846 1311/8270D)	22-148	16-150	10-136	30	--	--
TCLP Metals (SW-846 6010C)	--	75-125	80-120	30	--	--
TCLP Mercury (SW-846 7470A)	--	80-120	80-120	30	--	--
Reactivity (Cyanide) (SW-846 9014)	--	10-100	10-100	30	--	--
Reactivity (Sulfide) (SW-846 9034)	--	10-100	10-100	30	--	--
Flashpoint (SW-846 1030)	--	--	97-103 °F	--	--	--
pH (SW-846 9045D)	--	--	--	--	±0.10	--
Water						
BTEX (SW-846 8260C)	73-123	55-150	55-150	30	--	35
PAHs (SW-846 8270D)	22-148	16-147	57-150	30	--	35
Ambient Air, Indoor Air, Soil Vapor						
VOCs (TO-15)	--	--	50-154	30	--	--

Note:

- The listed QC limits are based on the laboratory-provided limits at the time of this document. The limits are updated periodically by the laboratory, and the current limits at the time of analysis will be reported.

Abbreviations and Acronyms

BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
LCS = laboratory control sample
MS = matrix spike
MSD = matrix spike duplicate
PCB = polychlorinated biphenyls
SVOCs = semivolatile organic compounds
TCLP = toxicity characteristic leaching procedure
TO-15 = EPA Air Method, Toxic Organics-15
TPH = total petroleum hydrocarbons
VOCs = volatile organic compounds

ATTACHMENT A

EFMD
EQUIS™ SOP



INTRODUCTION

ARCADIS manages and verifies/validates analytical data generated by commercial analytical laboratories in the EQulS database (product of Earthsoft, Inc.). All laboratories contracted by ARCADIS or their clients, on a site-by-site basis, may be required to submit electronic data deliverables (EDDs) in addition to the hard copy report. This Standard Operating Procedure (SOP) describes the structure, format, and submission requirements for electronic data deliverables (EDDs) in the EQulS EFWEDD (Sample, Test, Result, Batch) format.

This document is a general guidance for preparation of the required electronic data and associated quality control information. The structure of the EDD as defined in this document will remain constant unless Earthsoft modifies the database structure. Reference values and requirements for population of additional fields with specific information will not change from project to project.

Modification to reference value lists may NOT be made by the laboratory without authorization from ARCADIS.

Section I provides ARCADIS contact information and the procedure to submit electronic deliverables directly via e-mail. However, all EDDs will be required to be submitted in a final CD compilation for each specific sampling event or as directed by the ARCADIS Project Manager (PM).

Section II outlines the table structures and general requirements of the EDDs. The EDD structure is based on EarthSoft's EFWEDD EDD format. EarthSoft's EDD format has not been changed; however, some 'optional' fields identified in the EarthSoft EDD have been modified to be 'required' in this EDD format. Additional information regarding the EarthSoft products can be found at <http://www.earthsoft.com/>.

Section III presents some additional explanation and requirements for populating the table structure and population set forth in Section II.

Section IV summarizes the use of the EDP. Each laboratory **MUST** use EDP to check each EDD file set prior to submission to ARCADIS. The EDP Error Report must be submitted with the EDD. ***All errors identified by the EDP routine must be corrected prior to forwarding the files for entry into the EQulS database. Or approval for submittal with errors must be authorized by ARCADIS.***

I. CONTACT INFORMATION

Laboratories should contact the ARCADIS National Program Lab Managers with questions regarding this document. The contact info is as follows:

Richard J. Murphy, Ph.D.
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630 Plaza Drive, Suite 100
Highlands Ranch, CO, 80129
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Direct: 315.671.9299
Fax: 315.449.0025
Cell: 315.751.1672
Dennis.capria@arcadis-us.com

ELECTRONIC LABORATORY DATA CHECKER EDP

Prior to submitting an EDD to ARCADIS, the EarthSoft EDP must be run to check and verify the EDD structure, format and reference value compliance. The EDP report must be submitted for each file with each EDD set. The Data Checker error report, which demonstrates that the EDD files were successfully checked, must be electronically submitted with the four EDD files to ARCADIS.

REFERENCE VALUES

A specific set of values is required to be utilized in populating certain key fields of the EDD. The Reference Value Lists for the EDP will be provided for each ARCADIS subcontracted laboratory. The Reference Value Lists must be utilized as provided. Alterations or additions to the Reference Values are **NOT** allowed **without prior** written authorization by the ARCADIS Data Manager. Electronic mail may be considered written authorization.

ELECTRONIC DATA DELIVERABLE (EDD) SUBMISSION

Prior to submission to ARCADIS, each data file must also be reviewed by the laboratory to ensure that the sample IDs, dates, times and other inter-related information is consistent between all four (4) files and the EDD is complete. All parameters that are subcontracted to other laboratories must be included in the EDD for a specific SDG or Laboratory Project Number. It is not acceptable to submit separate EDDs for subcontract parameters. Manual review of the files may be necessary to complete this review.

It is **IMPERATIVE** that the EDD results match the hard copy results. If the results do not match the lab will correct the error ASAP at no additional charge. This includes issues involving various rounding routines for different electronic data management programs within the laboratory (i.e. LIMS vs. EPA CLP). Significant figures must also match hard copy and be consistent from one sampling event to the next. Reporting limits must be consistent between events as well and must be in compliance with the Laboratory Task Order or Project Statement of Work. There may be instances where diluted surrogates and unrecovered spike compounds will require population of the EDD with numeric values in lieu of data flags in the hard copy report. The ARCADIS Data Manager will provide project specific guidance for these conditions. Adherence to the SOP requirements for population of spike/surrogate recovery and RPD fields is required to allow electronic validation of the data.

The EDP Reports for each file must be submitted with the 4 files of the actual EDD.

Laboratories must submit EDDs via e-mail for verification of compatibility and completeness to the assigned ARCADIS Data Manager for the project.

The subject line of this e-mail must include the following text:

[Facility-Code] [Laboratory Project/Log/SDG Number] - EDD Submission

The e-mail should also include the laboratory contact name and phone number.

EDDs must be submitted via e-mail prior to or at the same time the final hard copy document is delivered. ARCADIS may review the EDDs prior to requesting final submittal on CD. EDDs will be returned to the laboratory for modifications until the files can be successfully imported into the EQuIS Project Database and Electronic Data Validation can be performed without field population errors. Any revisions to the EDD will be required within 24 hours of notification to the laboratory regarding observed problems with the EDD. When the EDD is acceptable to the ARCADIS Data Manager and Project Manager, a CD containing all final versions of the EDD should be submitted to ARCADIS for archiving.

Invoices for analytical work will not be approved for payment until the final EDD revisions are acceptable.

II. ELECTRONIC DELIVERABLE DATA FORMAT

This section identifies the structure and format requirements for EQuIS EFWEDD EDDs submitted by all laboratories to ARCADIS. Specific field definitions are presented for each of the four files. Laboratories should review the unique requirements for these fields. The format population and adherence to the criteria are mandatory. Data are electronically validated and errors are quickly identifiable if the EDD is incorrect.

GENERAL FORMAT REQUIREMENTS

All laboratory data must be saved as an ASCII file format using the following standard format. Each subcontracting laboratory's data must be incorporated into the primary laboratory's EDD.

Each data field must be either separated by tabs or enclosed in double quotes (") and separated by commas. Data fields that do not contain information may be represented by two commas. Maximum length of text fields is indicated in the parentheses. If the input information is less than the maximum field length, **DO NOT ADD** spaces to account for the difference.

Each record must be terminated with a carriage return/line feed (i.e., standard DOS text file). The file can be produced using any software with the capability to create ASCII files.

THE LABORATORY SHALL LEAVE THE HEADERS IN EACH ASCII FILE TO ASSIST IN REVIEW AND RESOLUTION OF ERRORS.

Four files are required for each SDG or Laboratory Project Number: one each for samples, tests, results, and batches. Each file must be saved as a Tab Delimited or Comma Separated file.

Enterprise EDD File Naming Conventions

EDD packages must be named using a specific naming convention. An EDD Package consists of a .zip file containing the text (.txt) EDDs and a User Certificate. The zip file and text file names must contain the specific elements listed below under file naming conventions, separated by a period. A User Certificate file will be supplied to the lab by Arcadis for inclusion in the zip file. Please include in the subject line of emailed EDD submissions the facility code and Sample Delivery Group (SDG) number.

File Naming Conventions:

ZIP File Name = Unique ID.Facility Code.Format Name.zip

Text File EDDs Name = Unique ID.EDD Section Name.txt

Unique ID = SDG number.

Facility Code = The facility code (i.e., Site Name from ENFOS)

Format Name = The EQUiS EDD format name (e.g., ESBasic, EFWEDD, etc.).

EDD Section Name = The name of the section within the EDD (e.g. EFW2FSample, EFW2LabTST, etc.).

For example, ZIP File Name = "2009001.BP-99999.EFWEDD.zip" will contain the following files: "2009001.EFW2FSample.txt", "2009001.EFW2LabTST.txt", "2009001.EFW2LabRES.txt", "2009001.EFW2LabBCH.txt" and "pfoos usr".

Package re-submittal

In order to re-submit corrected EDDs, the .zip file and text (.txt) EDDs must each be renamed. If the example EDD package above were to be re-submitted it would have ZIP File Name = "2009001B.BP-99999.EFWEDD.zip" containing "2009001B.EFW2FSample.txt", "2009001B.EFW2LabTST.txt", "2009001B.EFW2LabRES.txt", "2009001B.EFW2LabBCH.txt" and "pfoos usr". Note that a "B" has been appended to the SDG name in both the zip file name and each of the text file names. A subsequent re-submittal of the same SDG would require that a C be appended and so on.

Referential integrity is enforced between tables (e.g. sys_sample_code present in the result, batch, and test tables must also be present in the sample table). For example, a data record with a specific sys_sample_code found in the result table, but not in the sample table, will cause an error in the Data Import Module and the file will not be allowed to be entered into the database. Dates and times associated with each test must match in the "Test" and "Result" files or the database will not allow entry of the entire file.

Reference values must be adhered to for a variety of fields as identified in the Reference Value list and described in the following table format requirements.

FORMAT DETAILS

The following four sections provide a detailed summary and the specific layout for each field required in each of the four (4) tables of the EDD. The ARCADIS EDD has been derived from the EarthSoft EFWEDD EDD.

Date is reported as MM/DD/YY (month/day/year) and time as HH:MM (hour:minute). Time must be reported in 24-hour (military) format (3:30 p.m. = 15:30 and 8:30 AM = 08:30 not 8:30). **NOTE:** Make certain that the LIMS systems format the date and time the same way for all files.

The columns in the following 4 tables relate to:

"Number" Column in Tables = Column of EDD table

"Attribute Name" = Column Name

PK after attribute indicates this is a primary key within Access for the table.

“Column Data” Type = Text or Numeric values required. Parenthetical number indicates total allowable number of characters in the field.

“Required” Column:

The column titled 'Required' will contain the text 'Yes' if the field is required to be populated by the laboratory. In addition, a “condition” is added to indicate additional information applying to population of the associated field. The first number of the condition relates to the table in which the condition applies, i.e. 1 is the Sample File, 2 is the Test File, 3 is the Result File, and 4 is the Batch File. Conditions apply as follows:

Condition	Table	Description
0	ALL	Field always required
1-1	SAMPLE	Field required for field samples only not required for laboratory samples
1-2	SAMPLE	Field required (parent_sample_code) for laboratory QC samples that have 'parents'
1-3	SAMPLE	Field not required for field samples
2-1	TEST	Field required if applicable for specific test
3-1	RESULT	Field required (result_value) for detected analytes only (TRG or TICs). Must be NULL if non-detect or surrogates, internal standards or spiked compounds
3-2	RESULT	Field required if available or appropriate for result
3-3	RESULT	Field required for matrix spikes or matrix spike duplicates (NOT required for surrogate compounds or LCS samples where the original concentration is assumed to be zero).
3-4	RESULT	Field required for surrogate compounds, LCS, Blank Spikes, Matrix Spikes, and Internal Standards.
3-5	RESULT	Field required for LCS duplicates, Blank Spike Duplicates, Matrix Spike Duplicates, Lab Replicates
3-6	RESULT	Field required for LCSD, BSD, MSD, and Lab duplicate samples
3-7	RESULT	Field required for surrogates and spike compounds
4-1	BATCH	Field required if available or appropriate for result

“REQUIRED”:

“YES” = Required data if applicable

“NO” = Optional information unless otherwise directed by ARCADIS Data Manager or preferred for insertion by lab except where lab is specifically directed to leave the field Null.

Parent Sample Definition

Parent Samples are base samples for duplicates or spikes. i.e. original field samples used for matrix spikes or field sample used for Lab Duplicate/Replicate. A Matrix Spike is not the Parent Sample of the Matrix Spike Duplicate.

POPULATING SPIKE FIELDS

SURROGATES: surrogate recoveries are to be populated in qc_spike_added, qc_spike_measure, and qc_spike_recovery fields. Surrogates are analyte type = SUR. Control limits for surrogate recoveries must also be populated.

INTERNAL STANDARDS: internal standard values are to be populated in qc_spike_added, qc_spike_measure, and qc_spike_recovery fields. Internal Standards are analyte type = IS.

LCS, BS, and MS COMPOUNDS: recoveries are to be populated in qc_spike_added, qc_spike_measured, and qc_spike_recovery fields. Compounds spiked to evaluate method accuracy are analyte type = SC. Control limits for spike recoveries must also be populated.

LCSD, BD, AND MSD COMPOUNDS: recoveries are to be populated in qc_dup_spike_added, qc_dup_spike_measured, and qc_dup_spike_recovery fields. The Compounds spiked to evaluate method accuracy are analyte type = SC. Control limits for spike recoveries must also be populated. Additionally, the qc_rpd and qc_rpd_cl fields must be populated for these samples.

LAB REPLICATE SAMPLE DATA: values for lab duplicates/replicates are to be populated in qc_dup_spike_measured field. The qc_rpd and qc_rpd_cl fields must be populated for these samples.

III. ADDITIONAL REQUIREMENTS

SAMPLE TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
1	sys_sample_code	Text(40)	Yes (0)	Unique sample identifier (COC Sample ID). Each sample must have a unique value, including spikes and duplicates. Unique sample identifiers <u>throughout</u> the database are an <u>ABSOLUTE</u> restriction enforced by EQuIS Chemistry. <u>This unique identifier also carries through to each subsequent sampling event where the samples IDs must be unique for EVERY event of the project (continuing years).</u> Laboratory QC samples must also have unique identifiers between sampling event and from 1 year to the next and between laboratories in the event subcontractors are used. For Matrix Spike, Matrix Spike Duplicate, and Laboratory Duplicates of Field Samples, add the suffix MS, MSD, and LR , respectively to create unique identifiers for these types of Lab QC samples.
2	sample_name	Text(30)	No	Additional sample identification information as necessary. Is not required to be unique (i.e., duplicates are OK).

SAMPLE TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
3	sample_matrix_code	Text(10)	Yes (0)	Code, which distinguishes between different types of sample matrix. Examples: Soil samples = "SO", groundwater samples = "WG". Field Blanks, Trip Blanks, and Rinsate Blanks = "WQ". Water Method Blanks and liquid matrix spikes = "WQ". Soil Method Blanks and soil/sludge/sediment matrix spikes = "SQ". This field refers to the sample matrix not the matrix after preparation or extraction. See rt_matrix for the list of valid values.
4	sample_type_code	Text(10)	Yes (0)	Code that distinguishes between different types of samples. For example , normal field samples = "N" and laboratory method blank = "LB". Field QC sample types are Field Duplicates = "FD", Field Blanks = "FB", Trip Blanks = "TB". Lab QC sample types are LCS or Blank Spikes = "BS", LCSD or BS Duplicates = "BD" and Matrix Spikes = "MS" and Matrix Spike Duplicates = "SD". See rt_sample_type in Reference Values list of valid values.
5	sample_source	Text(10)	Yes (0)	Must be either "Field" for field samples or "Lab" for laboratory QC samples. No other values are allowed. Matrix spikes and lab duplicate/replicate are "Lab" samples, even though the parent is a "Field" and the base sample came from the field. The spiking or splitting for duplication is done in the lab. Field duplicates as submitted to the lab by field sampling teams are "Field"
6	parent_sample_code	Text(40)	Yes (1-2)	The value in the "sys_sample_code" that identifies the sample that was the source of this sample. <i>For example</i> , the Matrix Spike and the Matrix Spike Duplicate or Lab Replicates parent_sample_code is the sys_sample_code for the originating field sample that is spiked to generate the MS/MSD or split by the lab for use as the laboratory duplicate. This field is only required in the EDD for laboratory "clone" samples (e.g., matrix spikes and duplicates). Field duplicates are submitted blind to the laboratory, so this field cannot be completed by the laboratory. This field must be blank for samples that have no parent (e.g., normal field samples, method blanks, etc.).
7	sample_delivery_group	Text(10)	Yes (0)	Sample delivery group or laboratory Project/Log Number. All deliverables must reference the SDG or Lab Log-in Number. This field MUST BE POPULATED
8	sample_date	Date	Yes (1-1)	Date of sample collection in MM/DD/YY format including trip blanks. Must be blank for laboratory samples.
9	sample_time	Time	Yes (1-1)	Time of sample collection in 24-hour (military) HH:MM format. 8:45 AM = 08:45 and 3:30 PM = 15:30. Must be blank for laboratory samples.

SAMPLE TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
10	sys_loc_code	Text(20)	No	Sample collection location. To be populated by ARCADIS unless otherwise directed at project initiation.
11	start_depth	Double	No	Beginning depth (top) of soil sample. To be populated by ARCADIS unless otherwise directed at project initiation.
12	end_depth	Double	No	Ending depth (bottom) of soil sample. To be populated by ARCADIS unless otherwise directed at project initiation.
13	depth_unit	Text(15)	No	Unit of measurement for the sample begin and end depths. IRPIMS-style unit of measurement codes (see table X03) are recognized by Chem; other codes may be allowed by the Chem project manager. To be populated by ARCADIS unless otherwise directed at project initiation.
14	chain_of_custody	Text(15)	Yes (1-1)	Chain of custody identifier or number. A single sample may be assigned to only one chain of custody. The COC identifier will be provided by the field sampling team based on conventions established for a specific project.
15	sent_to_lab_date	Date	No	Date sample was sent to lab (in MM/DD/YY format for EDD).
16	sample_receipt_date	Date	Yes (1-1)	Date that sample was received at laboratory in MM/DD/YY format. Must be blank for laboratory samples.
17	sampler	Text(30)	No	Name or initials of sampler.
18	sampling_company_code	Text(10)	Yes (1-1)	Name or initials of sampling company (no controlled vocabulary). "ARCADIS" should be entered into this field unless otherwise directed at project initiation.
19	sampling_reason	Text(30)	No	Optional reason for sampling. No controlled vocabulary is enforced.
20	sampling_technique	Text(40)	No (1-1)	To be populated by ARCADIS unless otherwise directed at project initiation. Sampling technique. For example , low flow, bailing, MIP, etc... Must be blank for laboratory samples.
21	task_code	Text(10)	No	Code used to identify the task under which the field sample was retrieved.
22	collection_quarter	Text(5)	No	Quarter of the year sample was collected (e.g., "1Q96")
23	composite_yn	Text(1)	No	Boolean field used to indicate whether a sample is a composite sample.
24	composite_desc	Text(255)	No	Description of composite sample (if composite_yn is YES).

SAMPLE TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
25	sample_class	Text(10)	No	Navy sample class code.
26	custom_field_1	Text(255)	No	Custom sample field
27	custom_field_2	Text(255)	No	Custom sample field
28	custom_field_3	Text(255)	No	Custom sample field
29	comment	Text(255)	Yes (0)	Field required to contain the full sample ID code.
30	sample_receipt_time	Text(5)	Yes (1-1)	Time of sample receipt by laboratory in 24-hour (military) HH:MM format. 8:45 AM = 08:45 and 3:30 PM = 15:30

TEST TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
1	sys_sample_code (PK)	Text (40)	Yes (0)	SAME AS #1 IN SAMPLE TABLE. This value is used in enforcing referential integrity between tables. Must match sys_sample_code in Sample Table.
2	lab_anl_method_name (PK)	Text (35)	Yes (0)	Laboratory analytic method name or description. See rt_analytic_method in reference value tables for list of valid values.
3	analysis_date (PK)	Date/Time	Yes (0)	Date of sample analysis in MM/DD/YY format. Refers to initiation of the analysis not prep method date.
4	analysis_time (PK)	Text (5)	Yes (0)	Time of sample analysis in 24-hour (military) HH:MM format. Note that this field, combined with the "analysis_date" field is used to distinguish between reextractions, reanalyses, and dilutions. Please ensure that retests have "analysis_date" and/or analysis_time" different from the original test event (and complete test_type field as appropriate).
5	total_or_dissolved (PK)	Text (1)	Yes (0)	"T" for total metal organic carbon concentration, "D" for dissolved or filtered metal or organic carbon concentration ONLY. USE "N" for organic (or other) constituents for which neither "total" nor "dissolved" is applicable including TDS.
6	column_number (PK)	Text (2)	Yes (2-1)	Applicable for GC or HPLC methods. "1C" for first column analyses, "2C" for second column analyses, or "NA" for analyses where not applicable. If any "2C" tests are listed, then there must be corresponding "1C" tests present also. Laboratories must indicate which of the two columns is to be considered "primary" by entering "Y" in the "reportable_result" field of the result table for the result presented in hard copy reports. It is NOT acceptable to identify both "1C" and "2C" reportable_result as "Y"; one must be "N" if "1C" and "2C" are provided in the EDD.

TEST TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
7	test_type (PK)	Text (10)	Yes (0)	Type of test. Valid values include "initial", "reextract", and "reanalysis", "dilution" are acceptable. See rt_test_type for all valid values.
8	lab_matrix_code	Text (10)	Yes (0)	Code that distinguishes between different types of matrix analyzed. Soil = "SO"; groundwater = "GW" and TCLP = TCLP as a lab matrix. See rt_matrix for valid values
9	analysis_location	Text (2)	Yes (0)	"LB" for fixed-based laboratory analysis , "FI" for field instrument, "FL" for mobile field laboratory analysis, or.
10	basis	Text (10)	Yes (0)	"Wet" for wet-weight basis; or "Dry" for dry-weight basis. For tests for which this distinction is not applicable use Wet
11	container_id	Text (30)	No	Sample container identifier.
12	dilution_factor	Single	Yes (0)	Test or analytical run dilution factor. Must be "1" if no dilution.
13	Prep_method	Text (35)	Yes (2-1)	Laboratory sample preparation method name. See rt_std_prep_method for valid values.
14	prep_date	Date/Time	Yes (2-1)	Date of sample preparation in MM/DD/YY format.
15	prep_time	Text (5)	Yes (2-1)	Time of sample preparation in 24-hour (military) HH:MM format
16	leachate_method	Text (15)	Yes (2-1)	Method name, e.g., SW1311 or SW1312. See rt_analytic_method for valid values.
17	leachate_date	Date/Time	Yes (2-1)	Date of leachate preparation in MM/DD/YY format.
18	leachate_time	Text (5)	Yes (2-1)	Time of leachate preparation in 24-hour (military) HH:MM format.
19	lab_name_code	Text (10)	Yes (0)	Unique identifier of the laboratory reporting results. See rt_subcontractor for valid values.
20	qc_level	Text (10)	NO	Not populated by Lab.
21	lab_sample_id	Text (20)	Yes (0)	Laboratory sample identifier. A field sample may have more than one laboratory lab_sample_id; however it is limited to only ONE lab_sample_id per method).
22	percent_moisture	Text (5)	Yes (2-1)	Percent moisture of the sample portion used in the specific lab_anl_method_name test; this value may vary from test to test for any sample. The value must be NUMERIC as "NN.MM", e.g., 70.1% could be reported as "70.1" but not as 70.1%". The database assumes that the number is a "%" and units of measure are not necessary. NOTE: This field MUST be populated for all soil, sludge, and sediment samples whether or not the value is reported in the hard copy. Use "0" for lab soil QC samples.
23	subsample_amount	Text (14)	Yes (0)	Amount of sample used for the test. THIS FIELD MUST BE POPULATED
24	subsample_amount_unit	Text (15)	Yes (0)	Unit of measurement for subsample amount. See rt_unit for valid values.

TEST TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
25	analyst_name	Text (30)	Yes (0)	Name or initials of laboratory analyst.
26	instrument_lab	Text (50)	Yes (0)	Instrument identifier.
27	comment	Text (255)	NO	Comments about the test as necessary (Optional).
28	preservative	Text (50)	Yes (2-1)	Indicate preservative or leave blank, if none. THIS FIELD MUST BE POPULATED IF A PRESERVATIVE WAS IN THE SAMPLE AS RECEIVED FROM THE FIELD OR IF THE SAMPLE WAS PRESERVED BY THE LABORATORY BEFORE PREPARATION AND ANALYSIS.
29	final_volume	Text (15)	Yes (2-1)	Final amount of extract or digestate.
30	final_volume_unit	Text (15)	Yes (2-1)	Unit of measure for final_volume. See rt_unit for valid values.

RESULT TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
1	sys_sample_code (PK)	Text (40)	Yes (0)	SAME AS #1 IN SAMPLE & TEST TABLES. This value is used in enforcing referential integrity between tables.
2	lab_anl_method_name (PK)	Text (35)	Yes (0)	Laboratory analytic method name. Must be same as lab_anl_method_name in Test File. See rt_analytic_method for valid values.
3	analysis_date (PK)	Date/Time	Yes (0)	Must be the SAME AS #3 IN THE TEST TABLE. This value is used in enforcing referential integrity between tables. Date of sample analysis in MM/DD/YY format.
4	analysis_time (PK)	Text (5)	Yes (0)	Must be the SAME AS #4 IN THE TEST TABLE. This value is used in enforcing referential integrity between tables.
5	total_or_dissolved_ (PK)	Text (1)	Yes (0)	Must be the SAME AS #5 IN THE TEST FILE.
6	column_number (PK)	Text (2)	Yes (3-2)	Must be the SAME AS #6 IN THE TEST FILE
7	test_type (PK)	Text (10)	Yes (0)	Must be the SAME AS #7 IN THE TEST FILE
8	cas_rn (PK)	Text (15)	Yes (0)	Chemical Abstracts Number for the parameter if available. This must be the true CAS # and "not made up". Where CAS #s are not available, i.e. wet chem. Parameters, identifiers will be provided by ARCADIS project requirements. See notes at end of section for TIC management. See rt_analyte for valid values. The lab is not authorized to add internally developed "CAS #s" for general chemistry parameters, surrogates, internal standards, TICs. CAS#s used for TICs must be available through an outside source such as "Chemfinder".
9	chemical_name	Text (60)	Yes (0)	Chemical name associated with CAS # in #8. The cas_rn field is the only chemical identifier information actually imported in EQuIS Chemistry.

RESULT TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
10	result_value	Text (20)	Yes (3-1)	Analytical result reported for "TRG" or "TIC" result_type ONLY . Appropriate and consistent number of significant digits must be entered. MUST BE BLANK FOR NON-DETECTS . "SUR", "IS", and "SC" results do NOT populate this field (populate the QC fields).
11	result_error_delta	Text (20)	Yes (3-2) [Radiochem]	Error range applicable to the result value for radiochemistry results.
12	result_type_code	Text (10)	Yes (0)	Must be either "TRG" for a target or regular results, "TIC" for tentatively identified compounds, "SUR" for surrogates, "IS" for internal standards, or "SC" for spiked compounds. [LCS, LCSD, MS, MSD, BS, BSD]
13	reportable_result	Text (10)	Yes (0)	Must be either "Yes" for results, which are considered to be reportable, or "No" for other results. Used to distinguish between multiple results where a sample is retested after dilution or to indicate which of the first or second column result should be considered primary. For re-analyses and dilutions all results must be entered into the database if hard copy data is provided BUT ONLY ONE RESULT FOR EACH COMPOUND/ANALYTE MAY BE FLAGGED AS REPORTABLE .
14	detect_flag	Text (2)	Yes (0)	Either "Y" for detected analytes or "N" for non-detects. MUST be "N" for NON-DETECTS .
15	lab_qualifiers	Text (7)	Yes (3-2)	Qualifier flags assigned by the laboratory. See rt_qualifier for valid qualifiers that may be used.
16	Organic_yn	Yes/No	Yes (0)	Must be either "Y" for organic constituents or "N" for inorganic constituents.
17	method_detection_limit	Text (20)	Yes (0)	Laboratory determined MDL per 40 CFR Part 136, adjusted for dilutions and percent moisture (if it applies).
18	reporting_detection_limit	Text (20)	Yes (0)	Detection limit that reflects sample analysis conditions including analysis volumes and dilution factors. This should be the laboratory PQL or standard reporting limits
19	quantitation_limit	Text (20)	No	NOT Currently used unless specifically defined for the project.
20	Result_unit	Text (15)	Yes (0)	Units of measure relates to ALL results including result_value, qc_original_concentration, qc_spike_added, qc_spike_measured, qc_dup_original_conc, qc_dup_spike_added, qc_dup_spike_measured. See rt_unit for valid values.
21	detection_limit_unit	Text (15)	Yes (0)	Units of measure for detection limit(s). See rt_unit for valid values.
22	tic_retention_time	Text (8)	Yes (3-2)	Retention time in minutes for tentatively identified compounds (TICs). Populated only for TIC result_type
23	result_comment	Text (255)	NO	MUST BE LEFT BLANK BY THE LAB

RESULT TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
24	qc_original_conc	Text (14)	Yes (3-3)	The concentration of the analyte in the original (unspiked) sample. Populated for matrix spike samples. Not populated where original concentration is assumed to be zero, i.e. LCS or BS samples.
25	qc_spike_added	Text (14)	Yes (3-4)	The concentration of the analyte added to the original sample. Populated for ALL Surrogates, and LCS, BS, and MS samples
26	qc_spike_measured	Text (14)	Yes (3-4)	The measured concentration of the analyte. Use zero for spiked compounds that were not detected in the sample. MUST BE NUMERIC even if diluted out or not recovered (use "0" if diluted, matrix interference, elevated concentrations of target compounds, etc.) Populated for ALL Surrogates, and LCS, BS, and MS samples
27	qc_spike_recovery	Text (14)	Yes (3-4)	The percent recovery for "SUR" and "SC" results. MUST BE NUMERIC even if diluted out or not recovered (use "0" if diluted, matrix interference, elevated concentrations of target compounds, etc.) Report as percentage (e.g., report "120%" as "120"); DO NOT include "%" sign in field. Populated for ALL Surrogates, and LCS, BS, and MS samples
28	qc_dup_original conc	Text (14)	Yes (3-5)	The concentration of the analyte in the original (unspiked) sample. Populated for matrix spike duplicate samples. Not populated where original concentration is assumed to be zero, i.e. LCSD or BSD samples.
29	qc_dup_spike_added	Text (14)	Yes (3-5)	The concentration of the analyte added to the original sample. Populated for ALL LCSD, BSD, and MSD samples.
30	qc_dup_spike_measured	Text (14)	Yes (3-5)	The measured concentration of the analyte in the duplicate. Populated for ALL LCSD, BSD, and MSD samples. MUST be NUMERIC . Use zero for spiked compounds that were not recovered due to dilution, matrix interference, elevated concentrations of target compounds, etc..
31	qc_dup_spike_recovery	Text (14)	Yes (3-5)	The duplicate percent recovery. Populated for ALL LCSD, BSD, and MSD samples. MUST be NUMERIC . Use zero for spiked compounds that were not recovered due to dilution, matrix interference, elevated concentrations of target compounds, etc Report as percentage (e.g., report "120%" as "120").
32	qc_rpd	Text (8)	Yes (3-6)	The relative percent difference between MS and MSD, LCS and LCSD, BS and BSD, & primary field sample result and Lab Replicate. Populated for ALL LCSD, BSD, MSD, and LR samples. MUST be NUMERIC . Use zero for RPDs that were not calculated due to elevated concentrations of target compounds, dilution, matrix interference, etc Report as percentage (e.g., report "120%" as "120").
33	qc_spike_lcl	Text (8)	Yes (3-7)	Lower control limit for spike recovery. Required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample. Report as

RESULT TABLE				
Num	Attribute Name	Column Data Type	Required	Attribute Definition
				percentage (e.g., report "120%" as "120").
34	qc_spike_ucl	Text (8)	Yes (3-7)	Upper control limit for spike recovery. Required for spikes, spike duplicates, surrogate compounds, LCS and any spiked sample. Report as percentage (e.g., report "120%" as "120").
35	qc_rpd_cl	Text (8)	Yes (3-6)	Relative percent difference control limit. Required for any duplicated sample. Report as percentage (e.g., report "120%" as "120").
36	qc_spike_status	Text (10)	Yes (3-4)	Used to indicate whether the spike recovery was within control limits. Use the "+" character to indicate failure, otherwise leave blank.
37	qc_dup_spike_status	Text (10)	Yes (3-5)	Used to indicate whether the duplicate spike recovery was within control limits. Use the "+" character to indicate failure, otherwise leave blank.
38	qc_rpd_status	Text (10)	Yes (3-6)	Used to indicate whether the relative percent difference was within control limits. Use the "+" character to indicate failure, otherwise leave blank. Required for any duplicated sample.

BATCH TABLE				
Num	Attribute Name	Column Datatype	Required	Attribute Definition
1	sys_sample_code (PK)	Text (40)	Yes (0)	SAME AS #1 IN SAMPLE , TEST TABLE . This value is used in enforcing referential integrity between tables.
2	lab_anl_method_name (PK)	Text (35)	Yes (0)	SAME AS #2 IN TEST TABLE . See rt_analytic_method for valid values.
3	analysis_date (PK)	Date	Yes (0)	SAME AS #3 IN TEST TABLE . This value is used in enforcing referential integrity between tables. Date of sample analysis in MM/DD/YY format. May refer to either beginning or end of the analysis as required by EQuIS Chemistry project manager.
4	analysis_time (PK)	Text (5)	Yes (0)	SAME AS #4 IN TEST, AND RESULT TABLES . This value is used in enforcing referential integrity between tables.
5	total_or_dissolved (PK)	Text (1)	Yes (0)	SAME AS #5 IN TEST TABLE . This value is used in enforcing referential integrity between tables.
6	column_number (PK)	Text (2)	Yes (4-1)	SAME AS #6 IN TEST TABLE . This value is used in enforcing referential integrity between tables.
7	test_type (PK)	Text (10)	Yes (0)	SAME AS #7 IN TEST TABLE . This value is used in enforcing referential integrity between tables.
8	test_batch_type (PK)	Text (10)	Yes (0)	Lab batch type. Valid values include "Prep", "Analysis", and "Leach". Additional valid values may optionally be provided by the EQuIS Chemistry project manager. This is a required field for all batches.
9	test_batch_id	Text (20)	Yes (0)	Unique identifier for all and each lab batches. Must be unique within EQuIS Chemistry database. For example, the same identifier cannot be used for a prep batch and an analysis batch and the values must be different from one sampling event to another. THIS IDENTIFIER CANNOT BE USED FROM ONE YEAR TO THE NEXT.

ADDITIONAL INFORMATION FOR PREPARING THE 4-FILE EDD

SAMPLE FILE AND SYS_SAMPLE_CODE

1. The sys_sample_code is the unique sample ID as supplied on the Chain of Custody form with the same spacing as identified on the COC or on a supplemental Sample ID list submitted to the laboratory with the Laboratory Task Order or prior to submission of samples.
2. In order to uniquely identify MS/MSD, laboratory duplicates, TCLP, and SPLP samples, the laboratory shall add a suffix to the original sample ID listed on the chain of custody:

Matrix Spike Sample = xxxxx MS
Matrix Spike Duplicate Sample = xxxxx MSD
Lab Duplicate/Replicate = xxxxx LR
TCLP Extract Sample = xxxxx TCLP
SPLP Extract Sample = xxxxx SPLP

These are the only characters that are allowed to be amended to ANY sample ID as listed on the COC or the sample ID list referred to above.

The parent_sample_code shall be entered into the parent_sample_code field of the Sample File.

3. If the sample_name field is provided it must contain the full sample ID from the chain of custody.

4. Sample_Type_Code must be appropriately applied as follows:

"N" = normal field samples
"FD" = field duplicates samples submitted blind to the laboratory
"TB" = trip blanks
"FB" = field blanks
"EB" = rinsate or equipment blanks
"BS" = laboratory control samples or blank spikes
"BD" = laboratory control sample duplicates or blank spike duplicates
"MS" = matrix spikes
"SD" = matrix spike duplicates
"LR" = laboratory duplicates or laboratory replicates

5. The following "matrix_type" codes must be used ("SQ" = soil QC sample and "WQ" = water QC sample):

Method Blank = "SQ" or "WQ"
MS/MSDs = "SQ" or "WQ"
LCS/LCSDs = "SQ" or "WQ"
BS/BSDs = "SQ" or "WQ"

6. SDG Numbers or laboratory Log Numbers (per ARCADIS PM direction) **MUST** be populated in "sample_delivery_group" field of the **Sample File**.

QUALITY CONTROL SAMPLES AND DATA

7. The source of Lab Duplicates, Lab Replicates, Matrix Spikes, and Matrix Spike Duplicates is the Lab not the Field even if the MS/MSD are identified on the COC by the field sampling team. The samples are spiked in the laboratory not in the field.
8. Laboratory QC data, which span more than one SDG may be submitted with each appropriate SDG.
9. Laboratory LCS and LCSD should be reported as two separate samples.

10. **Matrix Spike and Matrix Spike Duplicate recoveries must be reported as “0” if the value is not calculated due to concentrations of the spiked analyte in the sample at concentrations above the 4X factor.**
11. **All laboratory method performance site-specific and batch Quality Control sample results (i.e. Method Blanks, LCS/LCSDs, Blank Spikes, Leachate Blanks as method appropriate) must be included in the EDD.** For most projects, this does **NOT** include **non-site-specific** matrix spikes and laboratory duplicates/replicates.
12. Laboratory batch sample duplicate/replicate and MS/MSD results from **non-project specific** samples (i.e. batch QC samples) shall **NOT** be included in the EDD.
13. Surrogates populate the qc_spike fields not qc_dup_spike fields or the result_value field even if the surrogates are reported for MSD, BSD, or LCSD samples.
14. QC_Spike_Added values for Spike, IS and Surrogate compounds are REQUIRED.
15. QC_Spike_Measured values for Spike, IS and Surrogate compounds are REQUIRED.
16. RPDs for LCSDs, BSDs, MSDs, and Laboratory Duplicates must be populated in the “**qc_rpd**” field. A value of “0” or “100” must be reported, as appropriate, if the RPD is not calculated due to excessive concentrations or interference present in the sample. The “**qc_rpd**” must be a numeric entry.
17. The RPD control limit must be listed in the “**rpd_cl**” field for all parameters where an RPD is reported. This includes lab duplicate/replicate samples.

SAMPLE FILE

18. The following “**matrix_type**” codes must be used for QC samples (“**SQ**” = soil QC sample and “**WQ**” = water QC sample):

Method Blank = “SQ” or “WQ”
MS/MSDs = “SQ” or “WQ”
LCS/LCSDs = “SQ” or “WQ”
BS/BSDs = “SQ” or “WQ”

19. SDG or Laboratory Project numbers must be populated in “sample_delivery_group” field.

TEST FILE

20. Percent moisture must be reported in the “**percent_moisture**” field in the **Test File** for all solid samples (i.e., soil, sediment, and sludge).
21. Subsample weights and final volumes must be listed for all parameters as appropriate.

RESULTS FILE

22. Result_value is only populated with data for “TRG” and “TIC” detections. All other data is entered in the “qc_” fields. The field must be “NULL” for non-detects and other analyte_types. The Reporting Limit must not be entered in this field.
23. Non-detected data shall have a lab_qualifier of “U” in addition to other qualifiers deemed applicable. The Detect_Flag shall be “N” and the Result_value field shall be blank.
24. The Reporting Limit must be provided for all parameters. The RL MUST be adjusted for dilutions made during analysis.

25. Surrogate recoveries **MUST BE REPORTED** in the qc_spike_measured and qc_spike_recovery fields, even if the surrogate had been diluted out. List "0" as the measured and recovered amount. Control Limits must also be entered for surrogates. Surrogates are "SUR" analyte_type not "TRG".
26. Surrogate, LCS, LCSD, BS, BSD, MS, and MSD detected concentrations, and percent recoveries must be populated with a numeric value. A value of "0" **must** be entered if the Spiked Compound is diluted out or not recovered. An "+" is unacceptable as this is a numeric field.
27. **"QC_original_concentration"** must be populated for matrix spikes and matrix spike duplicates
28. Valid entries for the reportable_result field are "Yes" or "No" only.
29. **ONLY** report compounds of interest for any method blank, sample, and sample duplicate, trip blank.
30. Laboratory Qualifier designation must be consistent. For an estimated concentration with blank contamination "BJ" must be used. Note that "JB", "B J" or "J B" cannot be used.
31. Explanation of Duplicate Qualifiers:

B	Analyte found in associated blank	Organic Analysis
B	<CRDL but >= Instrument Detection Limit	Inorganic Analysis
N	Presumptive evidence of a compound	Organic Analysis
N	Sample recovery not within control limits	Inorganic Analysis

It is preferred by ARCADIS that the laboratory not qualifiers with multiple explanations. **Any qualifiers utilized in the hard copy report or the electronic report must be defined in the hard copy report. There is no exception to this requirement for explanation of qualifiers applied to electronic data.**

32. Nomenclature for tentatively identified compounds (TIC):

Use the CAS # if it is available and **REAL (outside verifiable source)** for TICs and enter the chemical name in the chemical_name field.

For UNKNOWN TICs follow the following protocol:

cas_rn for unknown VOA TIC = VTIC 1 through VTIC 10
cas_rn for unknown SVOA TIC = SVTIC 1 through SVTIC 20

Enter "UNKNOWN", "UNKNOWN Hydrocarbon", "UNKNOWN Aliphatic", or other identifier as appropriate or applicable in "chemical_name" field.

TICs will produce errors in the ELDC/EDDP that cannot be corrected by the laboratory. These are the only acceptable errors in the data checker report unless otherwise authorized by ARCADIS.

33. TCLP or SPLP results must be submitted in units of mg/L or appropriate liquid units. **(Make sure that moisture correction is not automatically enforced).**

BATCH FILE

34. The laboratory must use unique Batch File Names for each analytical department/method and for continuing years. Electronic validation utilizes Batch IDs to link field samples with quality control data. Overlapping Batch IDs are not acceptable.

GENERAL ISSUES

35. Incomplete chain-of-custody (C-O-C) forms must be immediately communicated to the project manager. Some of the C-O-C information is used for completion of the Sample_Matrix_Code and Sample_Delivery_Group. These discrepancies must be rectified upon receipt of samples at the laboratory prior to log in.
36. Duplicate sample IDs are not acceptable within the EQuIS database. It is imperative that samples including field blanks, trip blanks, equipment blanks, field duplicates have unique sample IDs for projects including ongoing sampling events such as quarterly groundwater monitoring.

SUBCONTRACTED PARAMETERS

37. The EDD must be populated with ALL appropriate and applicable fields, including ALL QC data for any subcontracted parameters.

PLEASE CONTACT THE ARCADIS PROJECT CHEMIST, DATA MANAGER or PROJECT MANAGER IF THERE ARE ANY QUESTIONS REGARDING PREPARATION OR GENERATION OF THE EDD.

EXAMPLE EDD REPORTS

The following subsections provide examples of how the EQuIS EDD should be populated for QC data.

RESULT FILE FIELDS FOR A NORMAL FIELD SAMPLE, TRG AND TIC RESULTS

The table below shows some of the fields in the Result File for a normal field sample (i.e., Sample_type_code = N, TB, FD, etc.) and “TRG” or “TIC” analyte_type_code. NOTE: all QC fields are blank.

cas_rn	result value	qc original conc	qc spike added	qc spike measured	qc spike recovery	qc dup. original conc	qc dupl. spike added	qc dup. spike measured	qc dup. spike recovery
93-76-5	3.17								
94-75-7	1.56								
94-82-6	2.31								

RESULT FILE FIELDS FOR A NORMAL FIELD SAMPLE WITH SURROGATES

The following table shows some of the fields in the result file for a normal field sample (i.e., Sample_type_code = N, TB, etc.). Note that QC fields are blank except on surrogate Rows.

cas_rn	result value	result unit	result type code	qc original conc	qc spike added	qc spike measured	qc spike recovery
93-76-5	1.56	mg/L	TRG				
94-75-7	3.17	mg/L	TRG				
PHEN2F		mg/L	SUR		12.5	12.9	103

RESULT FILE FIELDS FOR A MATRIX SPIKE

The following table shows some of the fields in the result file for a matrix spike sample (i.e., Sample_type_code = MS). Note that all "dup" QC fields are blank, and that the result_value field is NULL. Also, the qc_rpd field would be blank for these rows. The parent_sample_code must contain the contents of the sys_sample_code of the original (parent) sample.

cas_rn	result value	qc original conc	qc spike added	qc spike measured	qc spike recovery	qc dup. original conc	qc dupl. Spike added	qc dup. spike measured	qc dup. spike recovery
93-76-5		1.56	4.18	5.36	90.9				
94-75-7		3.17	4.18	7.15	95.2				
94-82-6		2.31	4.22	5.66	79.3				

RESULT FILE FIELDS FOR A MATRIX SPIKE DUPLICATE

The following table shows some of the fields in the result file for a matrix spike/matrix spike duplicate considered as a single sample (i.e., Sample_type_code = MSD). Note that all QC fields are completed, and that the result_value field is not needed. Also, the qc_rpd field would be completed for these rows. The parent_sample_code must contain the contents of the sys_sample_code of the original (parent) sample.

cas_rn	result value	qc original conc	qc spike added	qc spike measured	qc spike recovery	qc dup original conc	qc dup. spike added	qc dup spike measured	qc dup spike recovery
93-76-5						1.56	4.23	5.70	97.8
94-75-7						3.17	4.23	7.62	105
94-82-6						2.31	4.13	5.33	73.1

RESULT FILE FIELDS FOR A LCS or BS \

The following table shows some of the fields in the result file for an LCS sample (i.e., laboratory control sample, blank spike, Sample_type_code = BS). The qc_rpd field is left blank for these rows.

cas_rn	result value	qc original conc	qc spike added	qc spike measured	qc spike recovery	qc dup original conc	qc dup spike added	qc dup spike measured	qc dup spike recovery
93-76-5		1.5	5.00	5.26	105				
94-75-7		10.2	1.00	1.02	102				
94-82-6		3.4	12.5	12.9	103				

RESULT FILE FIELDS FOR A LCS DUPLICATE OR BS DUPLICATE

The following table shows some of the fields in the result file for a laboratory control sample duplicate (i.e., Sample_type_code = BD). Note that the result_value field is not required. Also, the qc_rpd field must be completed for these rows.

cas_rn	result value	qc original conc	qc spike added	qc spike measured	qc spike recovery	qc dup original conc	qc dup spike added	qc dup spike measured	qc dup spike recovery	qc_rpd
93-76-5							5.00	4.92	98	2.0
94-75-7							1.00	0.95	95	6.6
94-82-6							12.5	11.8	94	12.3

REANALYSES, REEXTRACTIONS, DILUTIONS

The following table shows how to report retests for three different circumstances. The first example, the sample was retested (for 75-25-2) because the initial result required reanalysis due to QC failure. For the second example, the initial sample result (for 95-95-4) required dilution. The third example (for 67-66-3) required both reanalysis and dilution (reanalysis supercedes dilution). The fourth example (87-86-5) shows an initial result that require re-extraction due to QC failure or elevated concentrations that could not be diluted based on the original extraction. The other results are "turned off" by setting the reportable_result field to "No".

test_type	cas_rn	result_value	reportable_result
initial	75-25-2	1.2	No
reanalysis	75-25-2	1.1	Yes
initial	95-95-4	250E	No
dilution	95-95-4	328	Yes
initial	67-66-3	3.4	No
reanalysis	67-66-3	3.3	Yes
initial	87-86-5	980E	No
reextraction	87-86-5	1500	Yes

ANALYSES REQUIRING SECOND COLUMN CONFIRMATION

Analyte identification requiring confirmation by a second analytical technique is required by certain gas chromatography (GC) methods. A common technique used to confirm the identity of an analyte is to analyze the sample using a second GC column that is dissimilar from the GC column used for the first analysis. This confirmation technique is used routinely when analyzing samples for pesticides, herbicides, and certain volatile organic compounds (e.g., BTEX), and the two analyses often are performed simultaneously using an instrument equipped with dual GC columns connected to common injection port.

The method for reporting data from dual column GC analyses is not standard throughout the environmental laboratory industry. ARCADIS recommends that laboratories use the method described in SW-846 Method 8000B, unless project-specific requirements or the method used for analysis dictate otherwise. The following table illustrates the proper format to be used to report first and second column results. The results for the first and third constituents (75-25-2 and 95-95-4) are being reported from column 1, and the result for the second constituent (67-66-3) is being reported from column 2. The other results are "turned off" by setting the reportable_result field to "No".

column_number	cas_rn	result_value	reportable_result
1C	75-25-2	6.2	Yes
1C	67-66-3	3.4	No
1C	95-95-4	5.6	Yes
2C	75-25-2	1.3	No
2C	67-66-3	33.7	Yes
2C	95-95-4	5.4	No

REFERENCE TABLES

A number of fields in each of the EDD files must be entered to correspond exactly with reference values standardized by ARCADIS. These reference values will be updated from time to time. Each laboratory will be supplied a copy of the updated document. It is the laboratory's responsibility to submit EDDs using the most current reference tables as defined by a specific project.

The following table summarizes the EDD fields where standard reference values must be used:

EDD File	EDD Field	Reference Table
Sample	sample_type_code	rt_sample_type
	sample_matrix_code	rt_matrix
Test	lab_anl_method_name	rt_anl_mthd
	lab_matrix_code	rt_matrix
	prep_method	rt_std_prep_mthd
	subsample_amount_unit	rt_unit
	final_volume_unit	rt_unit
Result	lab_anl_method_name	rt_anl_mthd
	cas_rn	rt_analyte
	chemical_name	rt_analyte
	result_type_code	rt_result_type
	lab_qualifier	rt_qualifier
	result_unit	rt_unit
	detection_limit_unit	rt_unit
Batch	lab_anl_method_name	rt_anl_mthd

IV. EDP

The EDP data checker assists the **LABORATORY** in checking EDD files to ensure that they are error-free prior to submission to ARCADIS. All laboratories providing data to ARCADIS **must use** the EDP program to verify that EDDs are without error. The EDP error reports for each file **must be** submitted with each EDD.

The use of the EDDP helps to solve common data population problems including duplicate data, incorrectly populated fields, and incorrect methods, CAS #s, and other acceptable reference values. If an EDD is received by ARCADIS containing errors it will be rejected until the EDD report is acceptable for import into the EQuIS database. Invoice payment will not be made until the EDD is acceptable.

ARCADIS will provide laboratories with the most recent version of the EDP.

APPENDIX I

Site Inspection Form



Dansville Former MGP Site
Dansville, Livingston County, New York

Temperature: _____

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Site Inspection Form

Dansville Former MGP Site
Dansville, Livingston County, New York

[illegible]

* Indicates condition should be reported to NYSEG Project Manager/OM&M Coordinator. Provide photographs of site features observed in poor conditions/deficiencies.

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