

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

Prepared for

Utica Holding Company c/o
Danaher Corporation
1500 Mittel Boulevard
Wood Dale, IL 60191

Prepared by



Synapse Risk Management, LLC.
360 Erie Boulevard East
Syracuse, New York 13202

January 2014

CERTIFICATION

I, Paul M. Fisher, P.E., as a New York State licensed Professional Engineer, certify that the 2012 - 2013 Periodic Review Report, Sections 1 through 5, for the property located at 2200 Bleecker Street, Utica, New York, pursuant to the Draft DER-10, December 2002 (updated November 2010), Section 1.5(a)9, has been prepared in accordance with good engineering practices and under my direct review. I further certify that the inspections and evaluations, for said sections, were implemented and that all activities were completed in accordance with the NYSDEC-approved Operation, Maintenance and Monitoring Manual and/or NYSDEC-approved changes.

Synapse Engineering, PLLC

Paul M. Fisher, P.E.

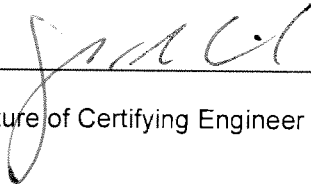


CERTIFICATION

I, John P. Sobiech, as a licensed Professional Engineer in the State of New York, certify that Section 6 (January 1, 2012-December 31, 2013) of the 2012/2013 Periodic Review Report, for the property located at 2200 Bleecker Street, Utica, New York, is prepared pursuant to the DER-10 (May 3, 2010), Section 1.5(a) 8 and has been prepared in accordance with good engineering practices.

John P. Sobiech, P.E.

Printed Name of Certifying Engineer



Signature of Certifying Engineer

01-22-14

Date of Certification

068973

Registration Number

NY

Registration State

CHA Consulting, Inc.

Company

Sr. VP of Engineering

Title

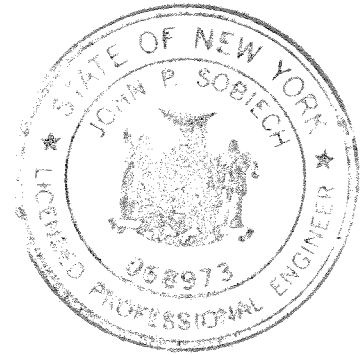


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ACRONYMS AND ABBREVIATIONS

ABBREVIATION	NAME
BBL	Blasland, Bouck & Lee
bgs	below ground surface
cfm	cubic feet per minute
cis-1,2-DCE	cis-1,2-dichloroethene
CMP	corrugated metal pipe
Coolidge	Coolidge Utica Properties, LLC
CPTC	Chicago Pneumatic Tool Company
Danaher	Danaher Corporation
DER-10	NYSDEC's Draft DER-10, <i>Technical Guidance for Site Investigation and Remediation</i> dated December 25, 2002
DMRs	Discharge Monitoring Reports
Fathead Minnow	Pimephales promelas (vertebrate)
FER	Final Engineering Report
gpd	gallons per day
gpm	gallons per minute
GTS	groundwater treatment system
HDPE	high-density polyethylene
IRM	Surface Water Interim Remedial Measures
ISACC	Intelligent System for Automatic Control & Communication (Auto Dialer System)
Main Building	former main manufacturing building
MH	Manhole
mg/l	Milligrams/liter
NCT	northern collection trench
ng/l	nanograms/liter
NYSDEC	New York State Department of Environmental Conservation
OBG	O'Brien and Gere Engineers, Inc.
OCDWC	Oneida County Department of Water Quality and Water Pollution Control
OM&M	Operation, Maintenance and Monitoring
PCB	polychlorinated biphenyl
PVC	polyvinyl chloride
QA/QC	Quality assurance/quality control
RA	Remedial Action
RAF	Remedial Action Facility
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
SCT	southern collection trench
SECOR	SECOR International Incorporated
SPDES	State Pollutant Discharge Elimination System
SVOC	semi-volatile organic compound
TCE	Trichloroethylene
the Property	2200 Bleecker Street in Utica, New York
TOGS 1.1.1	NYSDEC Division of Water <i>Technical and Operation Guidance Series (1.1.1) Ambient Water Quality and Guidance Values and Groundwater Effluent Limitations</i> dated June 1998
trans-1,2-DCE	trans-1,2-dichloroethene
TSS	total suspended solids
ug/l	micrograms/liter
UHC	Utica Holding Company
VC	vinyl chloride
VOC	volatile organic compound
Water Flea	Ceriodaphnia dubia (invertebrate)

**2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

ASSOCIATED DOCUMENTS

ABBREVIATION	TITLE	AUTHOR	DATE
Phase 1	Phase I Investigation	BBL	8/85
SIR	Site Investigation Report	BBL	7/90
PSA	Preliminary Site Assessment	NYSDEC	11/90
Order	Order on Consent for RI/FS Index No. A6-0279-920-04	NYSDEC	10/26/93
RI	Remedial Investigation Report	BBL	10/94
IRM	Surface Water Interim Remedial Measures (Design)	BBL	10/94
IRM-DWG	IRM Contract Drawing	BBL	04/95
IRM OM&M	IRM Operation & Maintenance Manual	BBL	04/95
RI/FS	Health and Safety Plan - Addendum #1 Remedial Investigation/Feasibility Study	BBL	10/95
SRI/FS	Supplemental Remedial Investigation Report/Feasibility Study	BBL	12/95
ROD	Record of Decision - Site No. 622003	NYSDEC	3/29/96
ORDER	Administrative Order on Consent Index No. B6-0491-96-04	NYSDEC	10/02/97
RD	Remedial Design Work Plan	BBL	11/97
RDS	Remedial Design Specifications	BBL	4/98
SPDES-SAP	SPDES Stormwater Action Plan	SECOR	6/00
FER	Final Engineering Report (Final)	SECOR	8/01
OMM	Operation, Maintenance & Monitoring Manual (Final)	SECOR	4/01
2000-RPT	2000 Annual Operation, Maintenance & Monitoring Report	SECOR	4/01
2001-RPT	2001 Annual Operation Maintenance & Monitoring Report	SECOR	8/02
UHC SPDES	Utica Holding Company SPDES Permit No. NY-0257087	NYSDEC	9/1/02
CPTC SPDES	Chicago Pneumatic SPDES Permit No. NY-0108537	NYSDEC	9/1/02
2002-RPT	2002 Annual Operation, Maintenance and Monitoring Report	SECOR	3/03
2003-RPT	2003 Annual Operation, Maintenance and Monitoring Report	Domani	3/04
2004-RPT	2004 Annual Operation, Maintenance and Monitoring Report	Synapse	3/05
2005-RPT	2005 Annual Operation, Maintenance and Monitoring Report	Synapse	2/06
2006-RPT	2006 Annual Operation, Maintenance and Monitoring Report	Synapse	4/07
2007-RPT	2007 Annual Operation, Maintenance and Monitoring Report	Synapse	4/08 revised 6/08
2008-RPT	2008 Annual Operation, Maintenance and Monitoring Report	Synapse	5/09
2009-RPT	2009 Annual Operation, Maintenance and Monitoring Report	Synapse	7/10
2010-PRR	2010 Periodic Review Report	Synapse	8/11
2011-PRR	2011 Periodic Review Report	Synapse	8/12

1.0 INTRODUCTION

This 2012 - 2013 Periodic Review Report (PRR) provides a two year account of activities relative to the property located at 2200 Bleecker Street in Utica, New York (the Property).

Chicago Pneumatic Tool Company (CPTC) owned and operated at the Property from 1948 through 1997 for manufacturing. In 1997, Coolidge Utica took title to the former main manufacturing building (Main Building), land beneath the Main Building, and other improvements. Utica Holding Company (UHC), a subsidiary of Danaher Corporation (Danaher), owns the land surrounding the Main Building and in 1997, leased the land surrounding the Main Building (Leased Premises) to Utica Land Equities, LLC (ULE).

In November 2009, 2200 Bleecker Street Properties LLC (2200 Bleecker) acquired fee ownership in the buildings improvements and land beneath the Main Building from Coolidge Utica LLC. 2200 Bleecker also is presumed to represent the controlling interest in ULE as the tenant of the Leased Premises.

1.1 Regulatory History

Environmental assessments and investigations conducted between 1985 through 1990 identified impacted soil, surface water, and groundwater at the Property, and prompted the New York State Department of Environmental Conservation (NYSDEC) to issue an Administrative Order on Consent in 1993, directing the investigation and remediation of impacted areas at the Property. In 1996, NYSDEC issued a Record of Decision (ROD) for the Property, and listed it in the Registry of Inactive Hazardous Waste Disposal Sites, followed by a second Administrative Order on Consent. This set forth a Remedial Design (RD) and subsequent Remedial Action (RA) required for the Property. Following completion of the RA construction and reporting activities, NYSDEC issued a letter indicating that the RA had been approved.

1.2 Purpose

This PRR has been prepared in conformance with the requirements set forth in NYSDEC's DER-10, dated May 2010, *Technical Guidance for Site Investigation and Remediation* (DER-10), and has been prepared in reference to the Final Engineering Report (FER) for the Property, previously submitted and accepted by NYSDEC. Additionally, the April 2001 site specific Operation, Maintenance and Monitoring (OM&M) Manual was approved by NYSDEC, along with subsequent annual reports. This PRR, as guided by the OM&M Manual, has the following objectives:

- To provide an ongoing review and evaluation with regards to the compliance of the RA with the requirements of the ROD and subsequent Order on Consent;
- To provide an evaluation of the effectiveness of ongoing remedial operations, engineering controls, and treatment systems in use at the Property, and identification of any needed repairs or modifications;
- To provide an assessment of the performance and effectiveness of the remedy;
- To document any necessary changes to the remedy and/or monitoring systems;
- To provide recommendations for changes and/or new conclusions regarding environmental impact at the Property based on this evaluation;
- To provide information to the public; and
- Submit the PRR for the Property.

1.3 Report Organization

This report has been organized into six sections, each addressing a specific physical area/feature and/or regulatory program/requirement pertaining to ongoing OM&M at the Property as follows:

Section 1.0 – Introduction - Discusses the regulatory history of the Property, the purpose of this annual report, the report's originations and an overview of party contributions and subsequent responsibilities;

Section 2.0 - Property Background - Discusses the current ownership and uses of the Property, geology and hydrogeology and environmental investigations;

Section 3.0 – Site Management - Remedial Action Facility (RAF) - Discusses the management of the RAF and the associated Engineering Controls at the Property;

Section 4.0 – Site Management - Groundwater Monitoring – Discusses the semi-annual groundwater sampling events at the Property;

Section 5.0 – Site Management - State Pollutant Discharge Elimination System (SPDES) - Discusses the SPDES permitted surface water discharges through four of the five outfalls at the Property, and the routine and additional effluent sampling, including the analytical programs required by the permit;

Section 6.0 – Engineering Controls - Operation, Maintenance and Performance Monitoring - Discusses CPTC's operation and maintenance of the groundwater treatment system (GTS) and SPDES Outfall 03A installed to monitor the GTS effluent at the Property. This section was prepared by Clough Harbour Associates on behalf of CPTC.

Each section contains appropriate tables and figures, as they apply to that specific section. This PRR also discusses, and presents as appendices, applicable data and information collected in compliance with satisfying the DER-10 requirements, such as site inspection forms, field monitoring logs, and laboratory analytical data.

1.4 Property Management

On behalf of UHC, Synapse Risk Management, LLC (Synapse), of Syracuse, New York, has managed the administrative and technical requirements pursuant to the RA during 2012 and 2013, with the exception of the GTS, which has been operated by Clough Harbour Associates of Syracuse, New York since September 2008 on behalf of CPTC.

2.0 PROPERTY BACKGROUND

The overall Property consists of a 77-acre parcel (see Figure 2-1 – Aerial Property Map) located in an industrial setting, with approximately 35 acres of undeveloped woodland at the southern portion of the Property. 2200 Bleecker took title to the Main Building, land beneath the Main Building and other improvements in November 2010 and subsequently leases portions of the building to various tenants. UHC retains ownership of the Leased Premises (see Figure 2-2 – Facility Plan). The peripheral Property receives monthly inspection and maintenance in conjunction with the required inspections of the RAF and associated components. UHC did not have access to the Main Building during Coolidge's ownership period and inspections of the building interior have not been conducted since 2005. This section includes inspection and maintenance only of the portions of the Property that are owned and accessible by UHC, not the Main Building. The RAF, groundwater monitoring, Property SPDES, and GTS are discussed in Section 3, Section 4, Section 5, and Section 6, respectively.

2.1 Property Ownership

CPTC occupied the Property from 1948 until 1997 for the manufacture of pneumatic tools. Danaher Corporation owned CPTC, but later transferred its ownership to Atlas Copco.

In 1997, Coolidge Utica took title to the 458,000 square foot Main Building, land beneath the Main Building, and other improvements. UHC, a subsidiary of Danaher, owns the land with the exception of the Main Building and other improvements and beginning in 1997, leased the Leased Premises to ULE. In November 2009, 2200 Bleecker acquired the fee ownership interests in the buildings and land beneath the Main Building from Coolidge Utica.

In 2012 and 2013, the majority of the Property buildings were occupied by tenants that generally include warehouse storage, food (dough) manufacturing, marine dock fabrication and uniform manufacture. The Main Building, consisting of approximately 458,000 square feet, that is surrounded by approximately 57,000 square feet of ancillary buildings. Paved access roads and parking areas surrounding the improvements account for approximately 12 acres. An approximate 35-acre wooded tract, at the southern portion of the Property, remains undeveloped. No specific changes to the Property's makeup or unusual activities related to operation and maintenance requirements were noted during 2012 and 2013.

2.2 Summary of Environmental Investigations

Remedial Investigation/Remedial Action

Potential environmental conditions at the Property were first identified in a 1985 Phase I Site Assessment (see Associated Documents). A subsequent site investigation was conducted in July 1990, and NYSDEC conducted a Preliminary Site Assessment later that year. Based on the findings presented in these investigation reports, NYSDEC issued an Administrative Order on Consent in 1993 which mandated the further investigation and remediation of impacted areas at the Property. Pursuant to this Order on Consent, Blasland Bouck & Lee, Inc. (BBL) submitted a Remedial Investigation (RI) report and a Surface Water Interim Remedial Measures (IRM) design in 1994, and a Supplemental Remedial Investigation/Feasibility Study in 1995. In 1996, NYSDEC issued a ROD for the Property, and listed the Property in the Registry of Inactive Hazardous Waste Sites (No. 622003 - Class 2), specifying the RA required for the Property. A second administrative Order on Consent was issued in 1997 followed by the RD. The IRM included the installation of an air groundwater treatment system (GTS) that has been in operation since 1995. The GTS was incorporated into the final RD, with the OM&M requirements conducted by CPTC.

Soil Vapor Intrusion

In October 2005, Synapse prepared a Soil Vapor Intrusion Work Plan on behalf of UHC in response to NYSDEC's July 18, 2005 letter requesting participation in a soil vapor intrusion evaluation.

On November 10, 2005, Coolidge Utica, LLC, owner of the Main Building at the time, denied UHC access into the building to undertake said evaluation. In response, the NYSDEC issued acknowledgment of the denial of access and indicated NYSDEC was postponing further review and approval subject to access to the building.

Upon the change of ownership to 2200 Bleecker (November 2009), UHC submitted a revised Vapor Intrusion Workplan to NYSDEC (March 2010) that was subsequently approved on April 26, 2010.

In June 2010, a total of twenty four (24) sub-slab soil vapor samples were collected concurrently with four soil vapor and seven ambient air samples. Volatile Organic Compounds (VOCs) were present in 19 of the 24 sub-slab soil vapor samples collected in the main building at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 1 and/or Matrix 2 mitigation guidance levels. The summary of sampling results are as follows:

- VOCs were present in 16 of the 24 sub-slab vapor samples at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 1 mitigation guidance levels.
- VOCs were present in 9 of the 24 sub-slab vapor samples at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 2 mitigation guidance levels.
- VOCs were not detected in outdoor air samples at concentrations above NYSDOH Air Guideline Values.
- VOCs were not detected in the indoor air samples at concentrations above NYSDOH Air Guideline Values, with one exception.
 - o TCE was detected in 3 of the 7 samples at concentrations that exceed the NYSDEC Air Guideline Value of 5 ug/m³.

Based on the vapor intrusion investigation results and findings, it was recommended that a soil vapor mitigation system design for the main building be prepared and submitted to NYSDEC and NYSDOH for review and approval.

In December 2011, a sub-slab diagnostic communication testing program was conducted to determine whether a sub-slab depressurization system would be a viable mitigation strategy to reduce subsurface vapor identified beneath the main building sub-slab floor. The intent of the sub-slab diagnostic communication testing was to gain an understanding of the sub-slab flow conditions with the design goal of determining horizontal suction point distances, effective pipe diameter, blower horse power (hp) and anticipated radius of influence (ROI). The results of the sub-slab communication testing indicated that a sub-slab depressurization system is a feasible mitigation method with allowable horizontal distances for vacuum sumps ranging between 100 and 125 feet.

In August 2013, UHC's contractors installed a building wide sub-slab depressurization system (SSDS). The SSDS consists of six individual fans connected to three to four vacuum sumps. As of January 2014, sub-slab diagnostic testing and indoor air sampling activities remained to be completed. Therefore, the installation summary, design results and indoor air sampling was not available for inclusion into the 2012 – 2013 PRR and will be transmitted under separate cover.

2.3 Summary of Remedial Actions

The RA was implemented from May 1998 through December 1999. A June 2000 SPDES Stormwater Action Plan was prepared and transmitted to NYSDEC to document SPDES corrective actions performed at the Property and to set forth contingency measures. NYSDEC issued a letter dated December 11, 2001 indicating that the FER and accompanying drawings and OM&M Manual for the Property had been approved. Additionally, the NYSDEC issued an earlier letter dated March 7, 2000 reclassifying the Property as a Class 4 Inactive Hazardous Waste Disposal Site. CPTC and UHC retain responsibility for implementing long term OM&M of the GTS and RAF, respectively, at the Property.

The RA included the following major components:

- Remediation involving soil and sediment removal at 14 identified source areas (see Figure 2-3 - Historical Remedial Action Areas);
- Construction of a containment cell to store a portion of impacted soil and sediment from 12 identified source areas. The containment cell and associated leachate collection system and building are surrounded by a perimeter fence and access is limited to authorized individuals associated with UHC. This fenced area is referred to as the RAF; and
- Construction and connection of two trenches, northern collection trench (NCT) and southern collection trench (SCT), to the existing air stripper, creating the GTS.

UHC was the Permittee on the SPDES permit associated with four outfalls located on the Property, which is discussed in Section 5. CPTC maintains responsibility for the GTS and associated SPDES permit for one outfall which is discussed in Section 6.

2.4 Property Geology and Hydrogeology

The Property is located on the southern side of the Mohawk Valley, which is a broad, east-west trending lowland, the floor of which consists of a uniform sequence of laminated, calcareous black shale known as the Utica Shale. South of the Property, the land surface rises abruptly off the valley floor, forming a bluff capped by limestone. The Mohawk River is located approximately 3,000 feet north of the Property. In general, regional dip of the bedrock unit is to the southwest. Regional estimates of depth to bedrock range from 21 to 75 feet.

Subsurface materials at the Property were described during installation of monitoring wells, soil borings, test pits, and excavations performed during investigations and remedial actions conducted primarily between 1988 and 1999. The unconsolidated subsurface materials are composed of varying consistencies of sand, silt, and clay. Some of the materials have been reworked to varying depths across the site by former facility activity and are classified as fill. The depth of the unconsolidated natural material across the Property ranges from three feet to 12 feet below grade. A till layer was encountered below the unconsolidated material and ranged in thickness from 12 to 24 feet. The till deposits are described as over-consolidated, dark gray silt and clay, that slopes gradually toward the north-northwest.

The regional groundwater flow is northeast, toward the Mohawk River. Two distinct hydrogeologic units, separated by a semi-confining till unit, are present at the Property. The first water-bearing unit is the unconsolidated overburden material (sand, silt, clay). Depth to first groundwater encountered in the overburden at the Property is generally within 5 feet of the ground surface. Weathered shale bedrock is the second water-bearing unit, and was reportedly encountered between 23 and 30 feet below ground surface.

2.5 Property Drainage and Outfalls

The Property is generally drained via existing drainage ditches located at the east and west portions of the Property. The west unnamed creek, (former Area 1) (See Figure 2-3), flows from the south through a wooded area and runs along the western extent of the Property, exiting at the northwest corner of the Property. The west unnamed creek drainage contribution primarily consists of roof leaders conveyed via the northern and southwestern stormwater systems emanating from of the Main Building. Surface water runoff from the western parking lot and surface water runoff from a southern agriculture area also contribute to the west unnamed creek. The southwestern and northern stormwater systems are monitored from manholes identified as SPDES Outfall 001 and Outfall 002, respectively. SPDES outfall monitoring for the Property is discussed in Section 5. The west unnamed creek floods occasionally in the spring and fall, primarily due to restrictions in an off-site stormwater piping system. A culvert was installed in 2003 by the county across Bleeker Street, approximately 300 feet off-site to the west. This culvert was installed to limit flooding of Bleeker Street by water backing up the west unnamed creek.

Two east-west oriented surface water drainage ditches (former Area 4 and Area 6), originate from the mid portion of the Property, south of the Main Building, and converge to form one south-north ditch, (Area 14), along the eastern portion of the Property. This east drainage ditch joins a road ditch located parallel to Bleeker Street. Treated effluent from the GTS, which is covered in Section 6, is discharged to the east drainage ditch via CPTC SPDES Outfall 03A. The newest Outfall 03B permitted and constructed in April 2010 is manually discharged on a quarterly basis to former Area 6 ditch, Outfall 03B is discussed further in Section 3. The east drainage ditch also receives stormwater from roof leaders connected to the southeastern stormwater system and the RAF surface drainage, as well as surface water from the eastern parking lots. The SPDES Outfall 003 is located near the northern end of the eastern drainage ditch; prior to joining a drainage ditch parallel to Bleeker Street, ultimately discharging off site via a culvert under Bleeker Street.

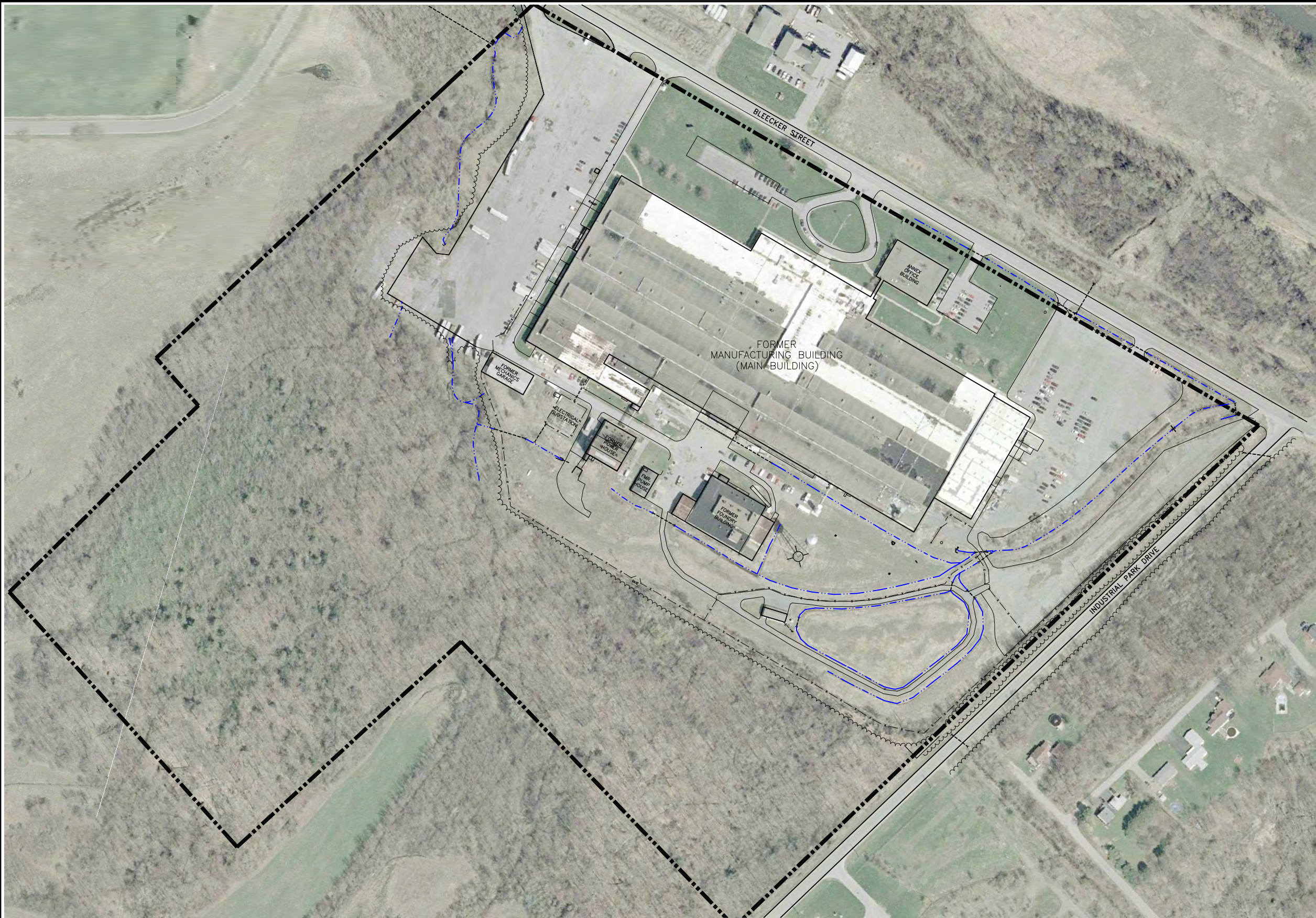
2.6 Summary of Current Operations

The northern portion of the Property continued to be the most active during 2012 and 2013; the southern portion of the Property remains wooded and undeveloped. Commercial tenants occupy approximately 65% of the Main Building and continue to use the surrounding access roads and parking lots. The Property is inspected a minimum of once per month allotting for reviews of exterior building activities and review of the Outfalls and Property drainage.

One reportable issues of concern was noted with regard to property or physical conditions during 2012. During a scheduled inspection of the Property on September 6, 2012, representatives of Synapse observed unauthorized excavation activities on the leased portion of the Property by contractors procured by 2200 Bleeker Street, LLC, in direct violation of the Ground Lease. The excavated soil was placed directly adjacent to SPDES Outfall 001 with no containment or erosion control measure to prevent surface runoff from entering the waters of the state. The excavated soils continue to remain as described above and 2200 Bleeker Street, LLC has yet to issue a corrective measures plan to NYSDEC to address and remedy the exposed soil conditions.

2.7 Figures

- 2-1 Aerial Property Map
- 2-2 Facility Plan
- 2-3 Historical Remedial Action Areas





LEGEND

 APPROXIMATE PROPERTY LINE

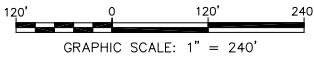
 CHAIN LINK FENCE

 SURFACE DRAINAGE CULVERT

 DRAINAGE DITCH

 TREE LINE

- NOTES:
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAYE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
 2. PROPERTY LINE INFORMATION TAKEN FROM HERKIMER COUNTY TAX MAPS AND IS APPROXIMATE.
 3. 2003 AERIAL PHOTO FROM NYSGIS WEBSITE.



X: CP-BASE
P: DL2BC
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB03.DWG



synapse
connect. advise. insure.

SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

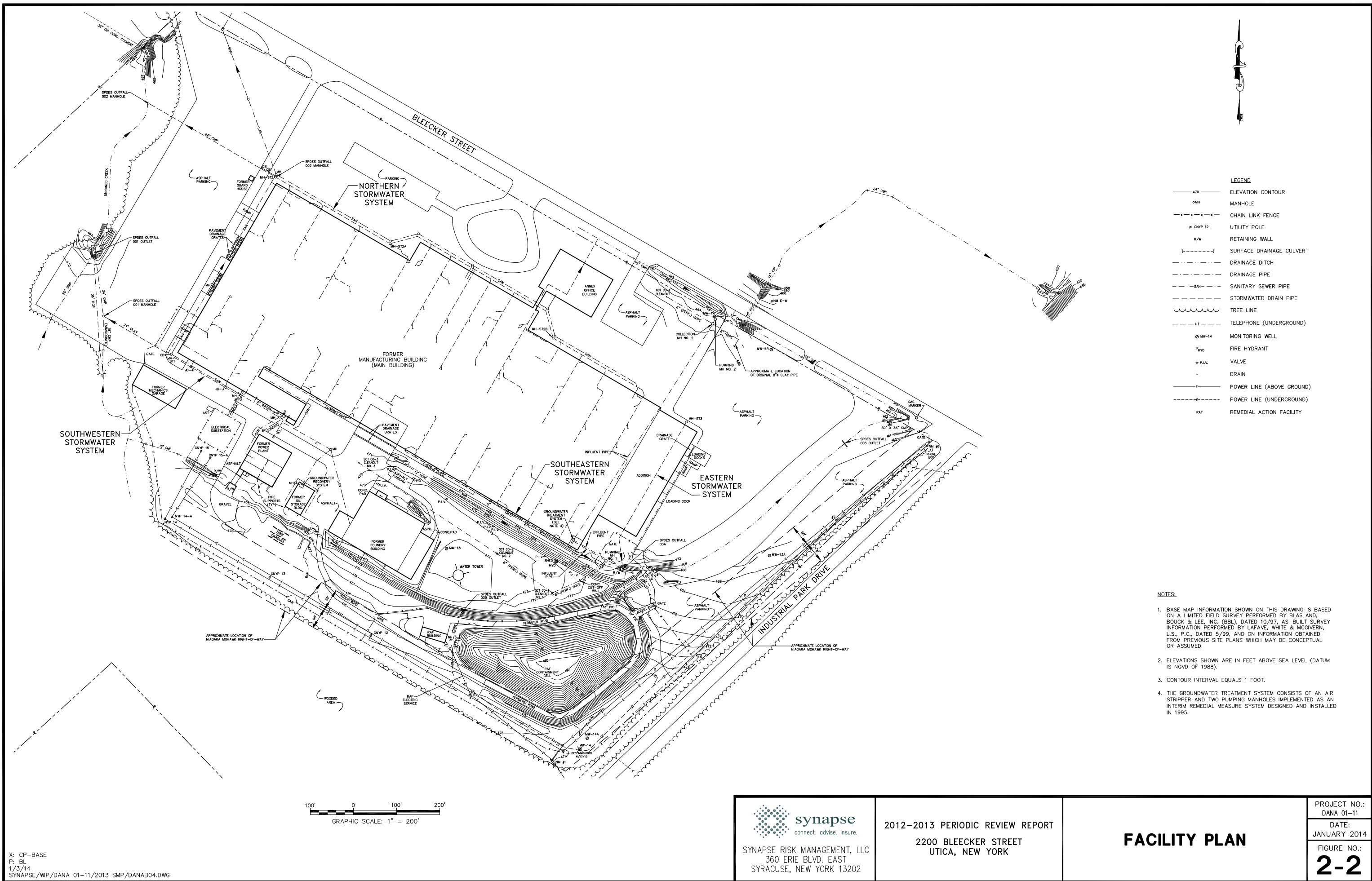
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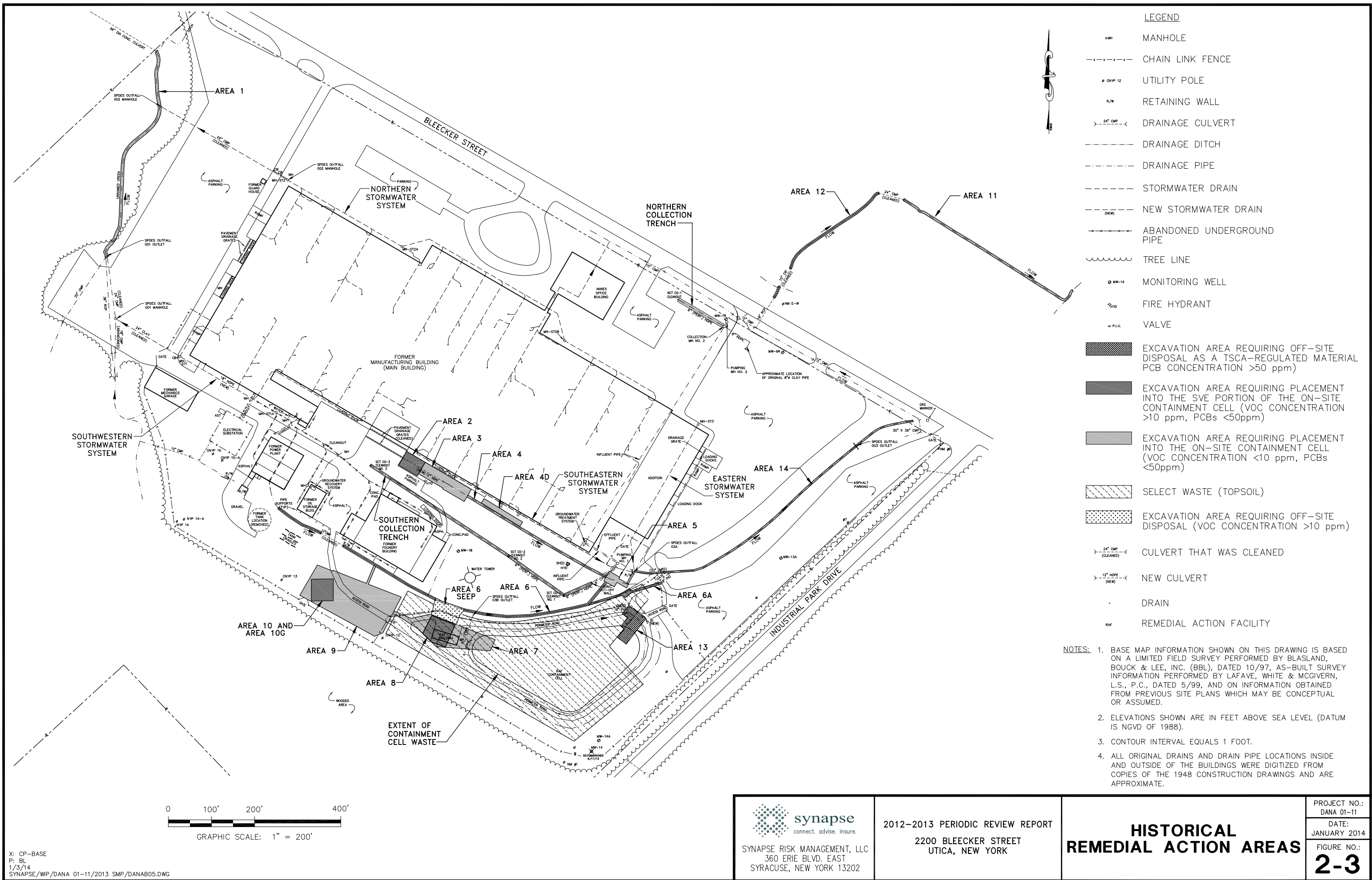
AERIAL PROPERTY MAP

PROJECT NO.:
DANA 01-11

DATE:
JANUARY 2014

FIGURE NO.:
2-1





3.0 SITE MANAGEMENT – REMEDIAL ACTION FACILITY

The RAF is situated on the eastern portion of the Property, within a fenced area encompassing approximately 3.8 acres, as presented on Figure 3-1 – Remedial Action Facility Plan. The OM&M of the RAF was conducted by Synapse, in accordance with the guidelines set forth in the NYSDEC-approved OM&M Manual dated April 2001. Field reports provide monthly documentation of the site inspection events and any adjustments made to components associated with the RAF. The result of these inspections generally sets forth any maintenance activities, if required.

Key components of the RAF are the fences, roads, drainage ditches, containment cell, leachate collection, and building systems, which constitute the engineering controls. The primary function of the RAF is collection and subsequent disposal of leachate generated from the containment cell.

Four groundwater monitoring wells (with the exception of MW-14, reinstalled and now referenced as monitoring well MW-14A), are located outside of the perimeter fence of the RAF, and are discussed in Section 4. The GTS is located within the southeast corner of the Main Building and is discussed in Section 6.

3.1 Construction

The RAF is surrounded by an 8-foot high barbed wire over chain link fence, with access gates to the north and west, with the primary access via the western gate. The RAF is generally comprised of the following components:

- *Containment Cell* - In 1999, construction of a 1.4-acre containment cell was completed to store 16,117 cubic yards of impacted soil and sediment generated during the RA. The containment cell was lined with a single composite liner system and completed with a composite cap placed over the impacted soil and sediment. Two gas vents and a leachate collection pipe were also installed within the containment cell. A series of ditches were installed around the containment cell to collect surface water runoff and direct stormwater away from the containment cell. A gravel service road surrounds the perimeter of the containment cell allowing for vehicle access to conduct inspection and maintenance.
- *Leachate Collection System* - A leachate collection system is comprised of a collection pipe that extends the length of the containment cell and is connected to the collection manhole, which is installed adjacent to the western side of the containment cell. The collection manhole is equipped with two pumps to transfer leachate to a storage tank prior to disposal. All components of the leachate collection system are double contained with fail safe monitoring systems. The collection pipe surfaces at the east end of the containment cell provide access for cleaning, as needed. The leachate collection system components are noted on Figure 3-1.
- *Leachate Storage System* – Beginning in April 2009, following the approval of SPDES Outfall 03B, the system was modified to allow for leachate to be stored in the leachate collection manhole and discontinued use of the 5,000-gallon aboveground tank (AST) for leachate storage. As part of the modification the leachate storage tank flow totalizer was relocated from the tank and to the leachate collection manhole with the totalizer continuing to track the cumulative amount of leachate generated since May 1999. Following the modification, the generated leachate was stored in the leachate collection manhole and discharged on a quarterly basis via SPDES Outfall 03B, following the receipt of analytical data and confirmation of compliance with the effluent limits.

On April 12, 2013, UHC withdrew an application for SPDES Permit modification and notified NYSDEC of its intent to relinquishment of SPDES Permit No. NY 025 7087.. The letter included an Affidavit from Synapse that indicated that the discharge from the RAF was redirected on April

11, 2013 from Outfall 03B to the RAF leachate storage tank. The leachate will now be managed by batch treatment and discharge to the publicly owned treatment works, following the receipt of analytical analysis and approval by the Oneida County Department of Water Quality and Water Pollution Control (OCDWPC) pursuant to Groundwater Remediation Discharge Permit No. GW-050.

- *RAF Building* - A 1,278-square foot building constructed of a steel frame and siding on a concrete slab foundation is used to house the leachate collection tank (tank area), and truck pad (truck loading area), noted above. Additionally, the building enclosure has an office area for maintaining OM&M records, the communication components, electrical service boxes and a storage area for tools, supplies, and equipment, known as the office/storage area. The building is located west of the containment cell and collection manhole.

3.2 Operations and Inspections

The RAF and associated components are scheduled for monthly visual inspection and documentation as set forth in the OM&M Manual. Operation is also monitored via telecommunication with the RAF auto dialer system, Intelligent System for Automatic Control & Communication (ISACC) that has operated from November 1998 to November 2013. In November 2013 the communication system was upgraded to a SCADA 3000 unit to monitor the RAF components, as well as, SSDS components. Scheduled site visits and subsequent Site Inspection Reports – Form A (Appendix A) consists of the following inspection components associated with the RAF:

- General Property Access and Drainage;
- Cell Perimeter Components;
- Containment Cell;
- Leachate Collection Manhole;
- Building Structure, Electrical, Telephone, and Auto Dialer Controls; and
- Leachate Storage System.

The cell perimeter road and facility access road were reviewed during the monthly inspections to ensure access for facility maintenance. The immediate surface drain ways were inspected to insure that ponding or erosion does not occur from runoff. All Property ditches and culverts were accessed and viewed during the inspection, for the same purpose. The RAF perimeter fence was also inspected to ensure facility security, and the facility overhead utilities were viewed and tested, in the building.

Inspection of the containment cell involved viewing the cell from the perimeter road and traversing its surface. Components viewed were the four perimeter drains, the two passive gas vents, and the cell cleanout pipe. These were checks for functionality, which also included periodic screening of the passive gas vents for volatile organic compounds (VOCs). The surface of the cell was inspected for stressed vegetation, burrows, erosion, and settlement.

Operation of the leachate collection manhole involves structural, electrical, pumping, and alarm components. Each inspection required checking the manhole control panel and recording running hours of the two pumps. Additionally, this included testing the operation of each pump, opening the manhole and conducting visual inspection of its components. Prior to April 2013 the lead/lag pumping system remained in the "Off" position and was only operated to conduct discharges to Outfall 03B. Following the reconnection of the leachate collection/storage system and with the discontinued use of SPDES Outfall 03B,, the pump controls were returned operate in "Auto" mode.

The RAF building was viewed during the inspection for inconsistencies in the structural, security, electrical, and telephone systems, as well as assessing the condition of the heat and vent systems. The ISACC, and now SCADA, is located in the RAF building and provides continuous monitoring information

of the leachate collection manhole and previously the leachate storage tank. This system is generally accessed remotely via modem semi-monthly for data collection and management. In the event of an alarm condition, the auto dialer system alerts designated Synapse personnel based on the guidelines set forth in the OM&M Manual and the auto dialer program logic. The Auto Dialer Alarm Incident and Testing Report, Form F, included in Appendix B, provides documentation of alarm conditions received, if any, and testing during the 2012 and 2013 calendar years. An annual total system check was performed on December 22, 2012 and December 11, 2013, as required, and documented on Form F, included in Appendix B. No alarms were triggered during the 2012 -2013 monitoring period, with the exception Channel No. 5, triggered by surface water collecting in the manhole interstitial space; this condition was contributed to the manhole cover leak.

3.3 Maintenance

General maintenance requirements of the RAF are set forth in the OM&M Manual, which provides inspection criteria, forms, guidance, and procedures to perform scheduled maintenance requirements, as well as contingency plans for unscheduled matters. The OM&M procedures and protocols are generally cross-referenced with and supported by the August 2001 FER.

Scheduled Maintenance

The scheduled maintenance activities associated with the RAF and site components that occurred during the 2012 and 2013 calendar years consisted of the following:

- RAF site access (snow removal, road maintenance, and fence maintenance);
- RAF building (ISACC program diagnostic/communication response);
- Containment cell (vegetation management, mowing, and erosion control); and
- Drainage ditches (vegetation, riprap and culvert management).

Unscheduled Maintenance

Unscheduled maintenance activities associated with the RAF and site components that occurred during the 2012 and 2013 calendar years consist of the following:

- Elimination of persistent and damaging vectors from the containment cell;
- Placement and grading of top soil followed by seeding and mulch;
- Spot restoration of vegetative cover on the containment cell;
- Removal of woody vegetation; and
- General cleaning of the building.

3.4 Leachate Collection

The leachate generated from the containment cell is collected, conveyed, and stored on-site. The leachate generated from the containment cell is drained, via gravity flow, to a perforated 6-inch, high-density polyethylene (HDPE) pipe located along the bottom of the containment cell, just above the liner. The leachate collection pipe passes through the western perimeter berm, and discharges into the double walled leachate collection manhole. The portion of the leachate collection pipe between the containment cell and collection manhole is equipped with double-walled piping that provides secondary containment

outside the containment cell. As described in Section 3-1 the leachate collection system was restored to operate as designed and set forth in the RD. The automated lead/lag pumping system was also restored as the primary and backup system.

Leachate generation/collection is monitored by two methods; measuring the fill height in the collection manhole and through the flow totalizer. The operation of this unit, associated with the leachate collection system, is discussed in the OM&M Manual. Several of the eight programmed ISACC channels, were connected and synced with SCADA system including the continued tracking of tank filling events and other tank parameters (i.e., water level in the tank, temperature, etc.).

The leachate generation rate is tracked by the inline flow totalizer that is read and is recorded during the monthly inspections. Table 3-1 – Cumulative Leachate Generation provides a summary of the recorded flow from May 1999, inception, through December 11, 2013. Chart 3-1 – Cumulative Leachate Generation graphically represents the data from Table 3-1. A total of 2,600 and 2,700 gallons were metered during 2012 and 2013, respectively comparable to an average flow of approximately 7.4 gallons per day (gpd). The general overall trend of yearly leachate production is similar to the flow rate observed in recent years, as depicted in Table 3-2 – Leachate Generation Per Year, and Chart 3-2 – Leachate Generation Per Year.

3.5 Leachate Disposal

Prior to March 27, 2009 the leachate was stored in an on-site 5,000-gallon aboveground tank, with a steel secondary containment sized to contain 110% of the tank volume. The leachate requires laboratory analysis prior to bulk batch disposal to the sanitary sewer system. Previous scheduling of the sampling events and subsequent disposal was based on tank level data monitored by the ISACC system. The disposal of the leachate was to the sanitary system under Permit No. GW-050 issued by the OCDWPC. The Oneida County permit remains active and current with the OCDWPC. From March 2009 to April 11, 2013 leachate generated was discharged to SPDES Outfall 03B. The collection manhole leachate level is visually observed during scheduled monthly RAF inspections. During the use of the Outfall 03B the manhole controls were switched to operate by hand to perform transfers of leachate from the collection manhole to Outfall 03B. The liquid level in the collection manhole is monitored utilizing the programmed ISACC (auto dialer system) channels. The ISACC and SCADA channels were programmed to provide telephone notification to Synapse. Beginning in November 2013 SCADA system was configured to monitor leachate collection system as the previous ISACC system, including the monitoring the leachate generated..

3.6 Summary

The RAF facility and associated components continue to operate as designed with some monitoring updates, during 2012 through 2013. The monitoring and inspection continues, as necessary, to evaluate trends and the ongoing condition of the RAF. The operation and maintenance performed during the 2012 through 2013 calendar years were performed within the guidelines set forth in the OM&M Manual. In addition to scheduled maintenance, unscheduled maintenance conditions were recognized and corrected as follows:

- Persistent and damaging vectors were eliminated from the containment cell;
- Small areas of stressed vegetative cover, on the containment cell, were restored; and
- The ISSAC auto dialer system was replaced with a new SCADA system.

The evaluation of the data relating to the leachate generated and metered during 2012 - 2013 (5,300 gallons), indicates a similar flow rate of leachate generated in comparison to earlier years. The average production rate for 2012 - 2013 was approximately 7.4 gpd. Four leachate batch discharges to Outfall

03B were conducted during 2012. As of April 2013, the leachate storage system has been restored to operate as originally designed and set forth in the RD. Additionally, on January 23, 2014 NYSDEC issued a letter to UHC that the SPDES Permit was not required for the Property and that the SPDES Permit was discontinued. Synapse concludes that the engineering controls, associated with the RAF performed as designed during 2012 - 2013, are in compliance, withy Section 4 of the OM&M requiring modification or change at this time.

3.7 Tables

- 3-1 Cumulative Leachate Generation
- 3-2 Leachate Generation

**TABLE 3-1
CUMULATIVE LEACHATE GENERATION**

**2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
5/19/1999	0	0	0	0
6/1/1999	13	4200	4200	323
6/22/1999	21	8200	4000	190
7/23/1999	31	12200	4000	129
9/27/1999	66	16200	4000	61
12/21/1999	85	20200	4000	47
1/21/2000	31	21400	1200	39
2/4/2000	14	22400	1000	71
3/14/2000	39	23800	1400	36
4/21/2000	38	24800	1000	26
5/11/2000	20	25700	900	45
6/6/2000	26	26700	1000	38
7/11/2000	35	27700	1000	29
8/18/2000	38	28800	1100	29
9/1/2000	14	29500	700	50
10/27/2000	56	31000	1500	27
11/14/2000	18	31600	600	33
12/15/2000	31	32700	1100	35
1/31/2001	47	33800	1100	23
2/28/2001	28	34400	600	21
3/29/2001	29	34800	400	14
4/26/2001	28	35400	600	21
5/23/2001	27	35900	500	19
6/21/2001	29	36500	600	21
7/17/2001	26	37100	600	23
8/15/2001	29	37600	500	17
9/14/2001	30	38400	800	27
10/23/2001	39	39200	800	21
12/3/2001	41	40000	800	20
12/18/2001	15	40400	400	27
1/11/2002	24	40800	400	17
2/6/2002	26	41400	600	23
3/5/2002	27	41800	400	15
4/16/2002	42	42300	500	12
5/9/2002	23	42700	400	17
6/5/2002	27	43100	400	15
7/23/2002	48	43900	800	17
8/9/2002	17	44100	200	12
9/19/2002	41	44900	800	20
10/16/2002	27	45400	500	19
11/27/2002	42	46200	800	19
12/13/2002	16	46400	200	13
1/31/2003	49	47200	800	16
2/18/2003	18	47400	200	11
3/19/2003	29	47800	400	14
4/16/2003	28	48200	400	14
5/15/2003	29	48400	200	7
6/5/2003	21	48600	200	10
7/9/2003	34	49200	600	18
8/1/2003	23	49600	400	17
9/23/2003	53	50400	800	15
10/2/2003	9	50400	0	0
11/21/2003	50	51500	1100	22
12/31/2003	40	52600	1100	28
1/13/2004	13	52600	0	0
2/27/2004	45	54100	1500	33
3/10/2004	12	54100	0	0
4/7/2004	28	54600	500	18
5/18/2004	41	54800	200	5
6/18/2004	31	55200	400	13
7/29/2004	41	55800	600	15
8/26/2004	28	56200	400	14
9/23/2004	28	56500	300	11
10/20/2004	27	56700	200	7
11/30/2004	41	57100	400	10
12/17/2004	17	57300	200	12
1/12/2005	26	57700	400	15
2/10/2005	29	57900	200	7

**TABLE 3-1
CUMULATIVE LEACHATE GENERATION**

**2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
3/7/2005	29	58100	400	14
4/6/2005	30	58300	200	7
6/2/2005	57	58700	400	7
7/27/2005	55	59300	600	11
8/10/2005	14	59500	200	14
9/14/2005	35	60000	500	14
10/11/2005	27	60300	300	11
11/15/2005	35	60600	300	9
12/28/2005	43	60900	300	7
1/25/2006	28	61200	300	11
2/20/2006	26	61400	200	8
3/24/2006	32	61800	400	13
4/12/2006	19	62000	200	11
5/17/2006	35	62200	200	6
6/2/2006	16	62400	200	13
7/11/2006	39	62600	200	5
8/23/2006	43	63200	600	14
9/20/2006	28	63400	200	7
10/5/2006	15	63600	200	13
11/3/2006	29	63800	200	7
12/29/2006	56	64400	600	11
1/26/2007	28	64700	300	11
2/21/2007	26	64900	200	8
3/23/2007	30	65100	200	7
4/18/2007	26	65300	200	8
5/31/2007	43	65700	400	9
6/12/2007	12	65700	0	0
7/26/2007	44	66100	400	9
8/14/2007	19	66300	200	11
9/19/2007	36	66500	200	6
10/30/2007	41	66800	300	7
11/30/2007	31	67200	400	13
12/28/2007	28	67400	200	7
1/14/2008	17	67700	300	18
2/21/2008	38	68000	300	8
3/18/2008	26	68300	300	12
4/18/2008	31	68500	200	6
5/13/2008	25	68700	200	8
6/23/2008	41	69000	300	7
7/23/2008	30	69200	200	7
8/6/2008	14	69400	200	14
9/15/2008	40	69600	200	5
10/1/2008	16	69600	0	0
11/25/2008	55	69900	300	5
12/24/2008	29	70200	300	10
1/20/2009	27	70500	300	11
2/26/2009	37	70800	300	8
3/11/2009	13	71100	300	23
3/27/2009	16	71600	500	31
4/8/2009	12	71600	0	0
5/29/2009	51	71900	300	6
6/11/2009	13	71900	0	0
7/23/2009	42	72500	600	11
8/5/2009	13	72500	0	0
9/4/2009	30	73100	600	14
10/16/2009	42	73100	0	0
11/25/2009	40	73100	0	0
12/24/2009	29	73600	500	5
1/18/2010	25	73600	0	0
2/4/2010	17	73600	0	0
3/19/2010	43	73600	0	0
4/16/2010	28	74300	700	8
5/14/2010	28	74300	0	0
6/11/2010	28	74300	0	0
7/2/2010	21	74300	0	0
8/6/2010	35	75300	1000	12
9/17/2010	42	75300	0	0
10/16/2010	29	75300	0	0

**TABLE 3-1
CUMULATIVE LEACHATE GENERATION**

**2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
11/13/2010	28	75800	500	5
12/22/2010	39	75800	0	0
1/7/2011	16	75800	0	0
2/4/2011	28	75800	0	0
3/18/2011	42	76680	880	10
4/1/2011	14	76680	0	0
5/12/2011	41	76680	0	0
6/24/2011	43	76680	0	0
7/8/2011	14	76680	0	0
8/19/2011	42	77500	820	8
9/26/2011	38	77500	0	0
10/20/2011	24	77500	0	0
11/29/2011	40	78300	800	8
12/21/2011	22	78300	0	0
1/21/2012	31	79100	800	9
2/4/2012	14	79100	0	0
3/19/2012	44	79700	600	7
4/13/2012	25	79700	0	0
5/25/2012	42	79700	0	0
6/22/2012	28	79700	0	0
7/6/2012	14	80300	600	7
8/17/2012	42	80300	0	0
9/26/2012	40	80300	0	0
10/24/2012	28	80900	600	5
11/14/2012	21	80900	0	0
12/22/2012	38	80900	0	0
1/18/2013	27	81500	600	7
2/15/2013	28	81500	0	0
3/26/2013	39	81500	0	0
4/11/2013	16	81900	400	5
5/10/2013	29	82000	100	1
6/20/2013	41	82100	100	1
7/17/2013	27	82300	200	2
8/14/2013	28	82600	300	3
9/24/2013	41	82700	100	1
10/25/2013	31	83200	500	5
11/15/2013	21	83500	300	3
12/6/2013	21	83600	100	1

NOTES:

1. Monitoring Period = Days between totalizer readings.
2. Totalizer reading in gallons.
3. gpd = Gallons per day.
4. Outfall 03B installed on April 8, 2009.

TABLE 3-2
ANNUAL LEACHATE GENERATION

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Year	Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Year	Flow (gpd)	Flow (gpm)
Begin	5/19/1999		0			
1999	12/21/1999	216	20200	20200	93.5	0.0649
2000	12/15/2000	360	32700	12500	34.7	0.0241
2001	12/18/2001	368	40400	7700	20.9	0.0145
2002	12/13/2002	360	46400	6000	16.7	0.0116
2003	12/31/2003	383	52600	6200	16.2	0.0112
2004	12/17/2004	352	57300	4700	13.4	0.0093
2005	12/28/2005	376	60900	3600	9.6	0.0066
2006	12/29/2006	366	64400	3500	9.6	0.0066
2007	12/29/2007	365	67400	3000	8.2	0.0057
2008	12/24/2008	361	70200	2800	7.8	0.0054
2009	12/20/2009	361	73600	3400	9.4	0.0065
2010	12/22/2010	367	75800	2200	6.0	0.0042
2011	12/21/2011	364	78300	2500	6.9	0.0048
2012	12/22/2012	367	80900	2600	7.1	0.0049
2013	12/6/2013	349	83600	2700	7.7	0.0054

NOTES:

1. Monitoring Period = Days between totalizer readings.
2. Totalizer reading in gallons.
3. gpd = Gallons per day.
4. gpm = Gallons per minute.

3.8 Charts

3-1 Cumulative Leachate Generation

3-2 Leachate Generation per Year

CHART 3-1
LEACHATE PRODUCTION OVER TIME
2011 PERIODIC REVIEW REPORT
2200 BLEEKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

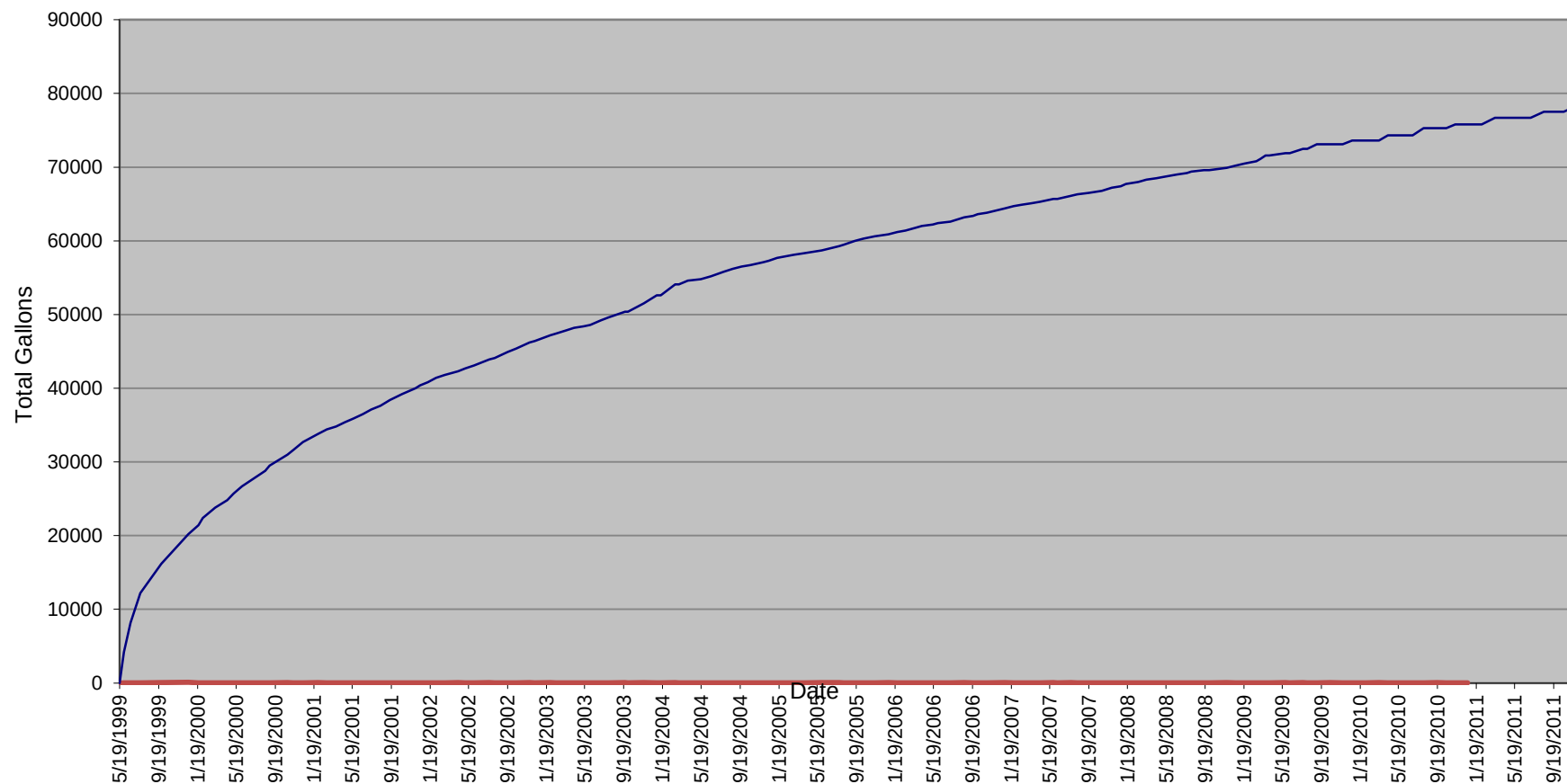
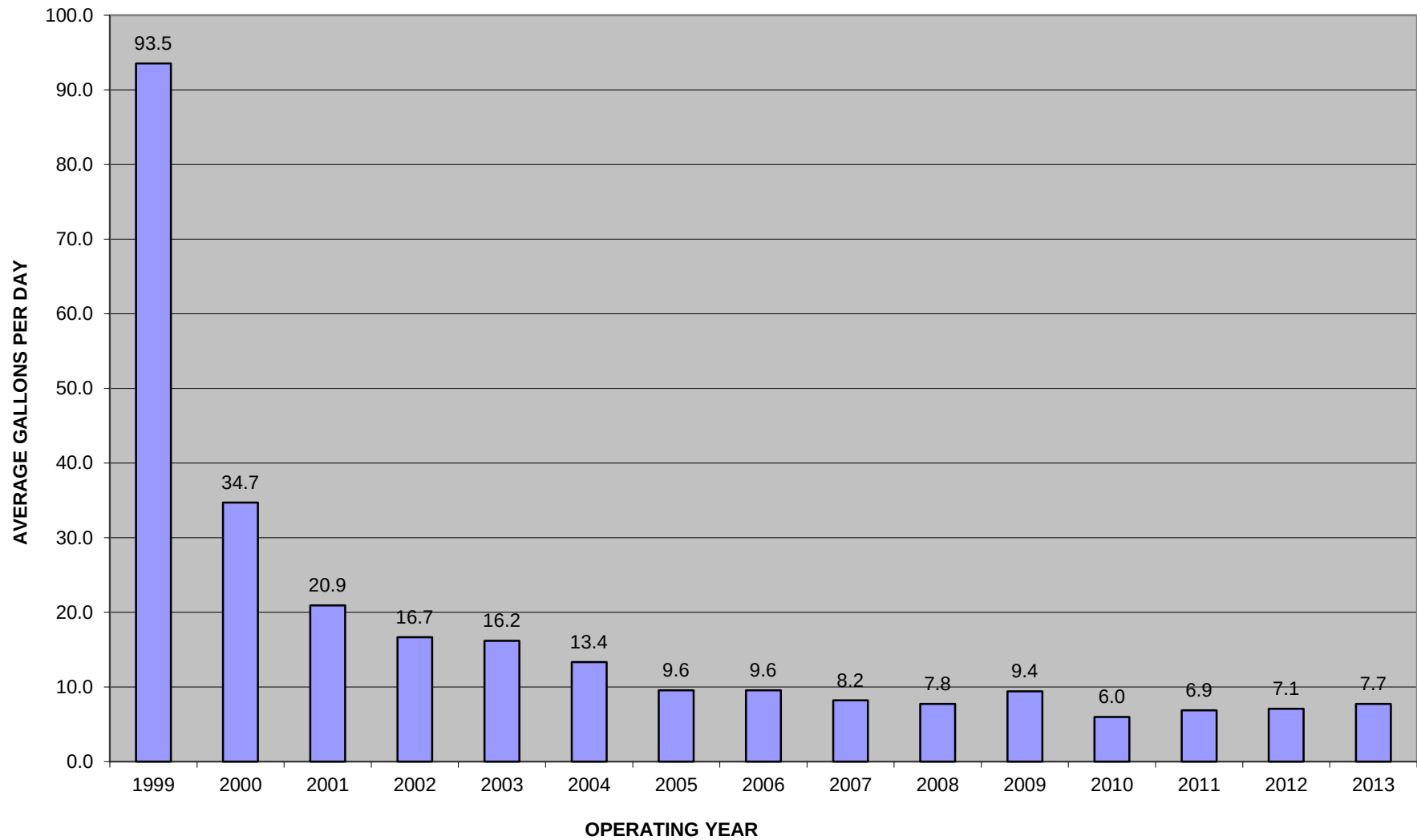
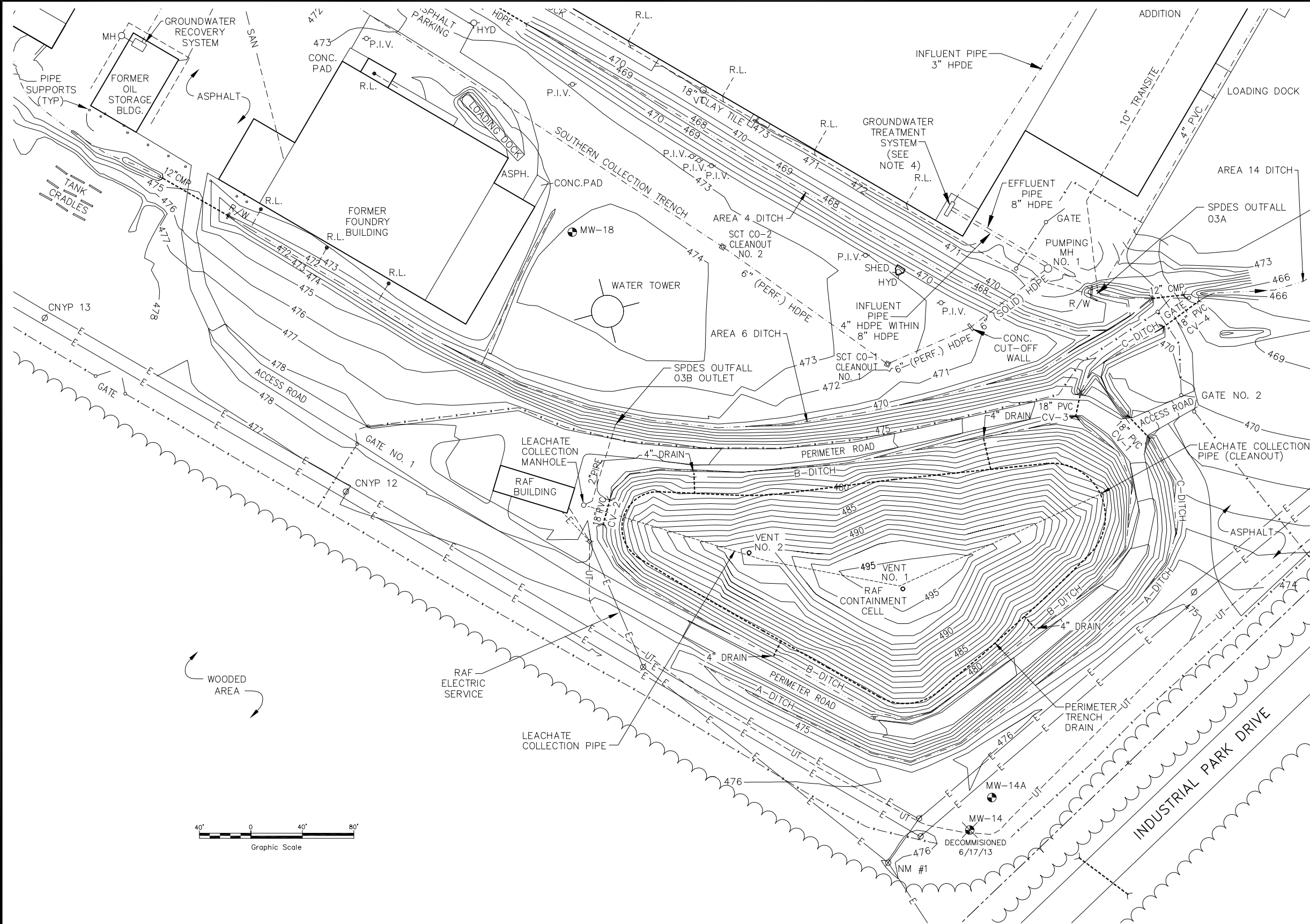


CHART 3-2
LEACHATE GENERATION PER YEAR
2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003



3.9 Figures

- 3-1 Remedial Action Facility Plan
- 3-2 Building, Tank, and Piping Plan



- LEGEND
- APPROXIMATE PROPERTY LINE
 - 470 — ELEVATION CONTOUR
 - MH MANHOLE
 - x - x - x - CHAIN LINK FENCE
 - Ø CNYP 12 UTILITY POLE
 - R/W RETAINING WALL
 -)----- (DRAINAGE CULVERT
 - - - - - DRAINAGE DITCH
 - - - - - DRAINAGE PIPE
 - - - - - SAN SANITARY SEWER PIPE
 - - - - - STORMWATER DRAIN PIPE
 - ~~~~~ TREE LINE
 - - - - - UT TELEPHONE (UNDERGROUND)
 - MW-14 MONITORING WELL
 - HYD FIRE HYDRANT
 - P.I.V. VALVE
 - R.L. ROOF LEADER
 - - - - - E POWER LINE (ABOVE GROUND)
 - - - - - E POWER LINE (UNDERGROUND)

- NOTES:
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
 2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
 3. CONTOUR INTERVAL EQUALS 1 FOOT.
 4. THE GROUNDWATER TREATMENT SYSTEM CONSISTS OF AN AIR STRIPPER AND TWO PUMPING MANHOLES IMPLEMENTED AS AN INTERIM REMEDIAL MEASURE SYSTEM DESIGNED AND INSTALLED BY BBL IN 1995.
 5. PROPERTY LINE INFORMATION TAKEN FROM HERKIMER COUNTY TAX MAPS AND IS APPROXIMATE.

X: CP-BASE.DWG
D2BBW
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB11.DWG



SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2012-2013 PERIODIC REVIEW REPORT

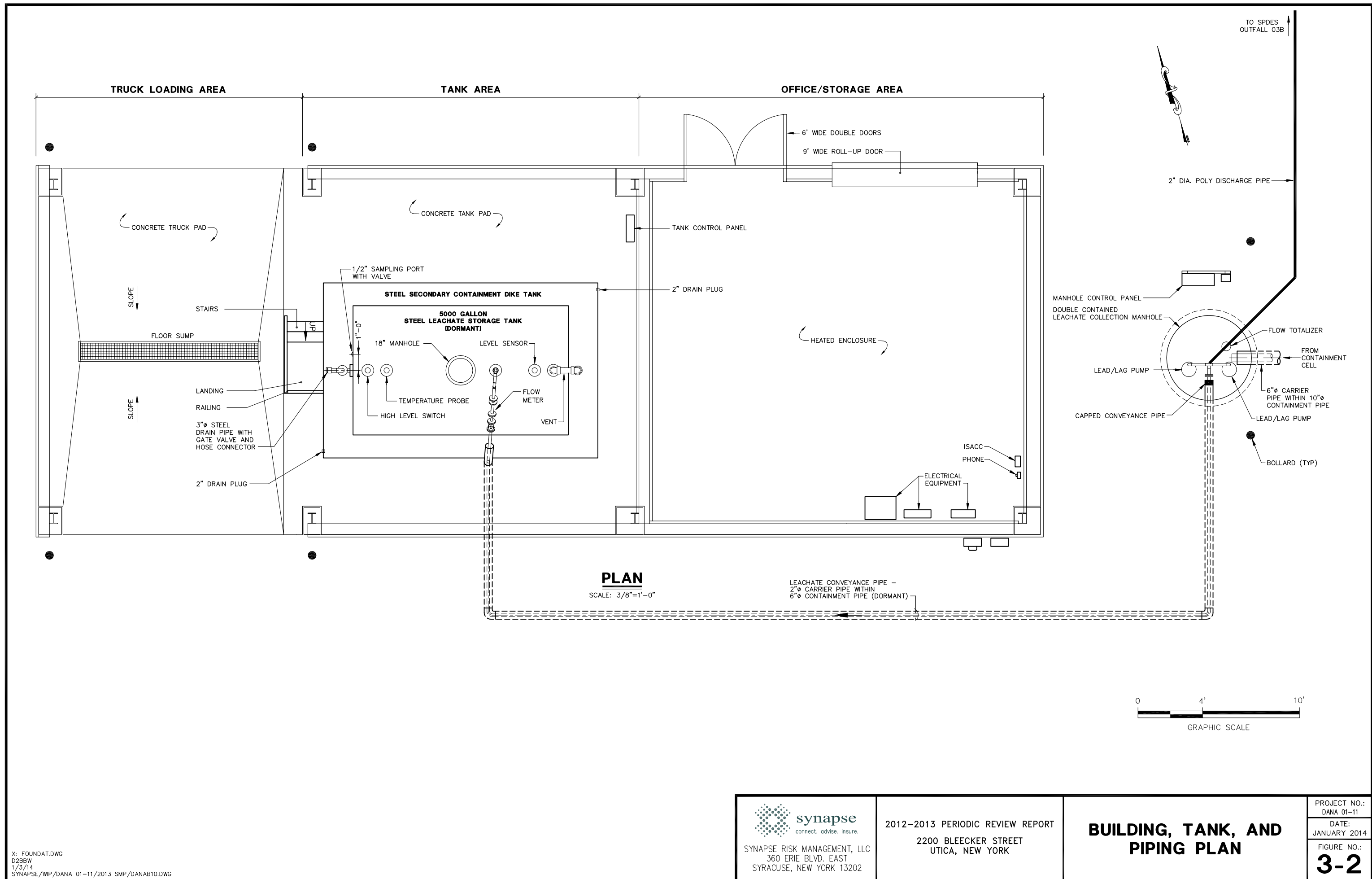
2200 BLEECKER STREET
UTICA, NEW YORK

**REMEDIAL ACTION
FACILITY PLAN**

PROJECT NO.:
DANA 01-11

DATE:
JANUARY 2014

FIGURE NO.:
3-1



4.0 SITE MANAGEMENT - GROUNDWATER MONITORING

This section presents the results of the semi-annual groundwater monitoring events conducted at the Property in 2012 - 2013. The Property OM&M Manual details the procedures that were followed during groundwater monitoring. The FER provides the procedures followed during the implementation of the RA that adjusted the groundwater monitoring program, which included monitoring well decommissioning and new monitoring well installation. The sub-sections that follow review the construction, monitoring, sampling, and data evaluation as part of the groundwater monitoring program and include specific tables and figures. The summary section provides comments, conclusions, and recommendations.

4.1 Monitoring Well Construction

The monitoring well network currently consists of five monitoring wells designated as: MW-6R, MW-13A, MW-14, MW-17, and MW-18. Damaged monitoring well MW-14 was decommissioned on June 17, 2013 and replaced near the same upgradient Property location with new monitoring well MW-14A. The monitoring wells are located to provide groundwater quality data for site-specific RA areas and monitor the performance of the GTS, including hydraulic control and contaminate removal.

The monitoring wells consist of 2-inch diameter polyvinyl chloride (PVC) risers and 10-foot lengths of 0.010-inch slotted PVC screen. The well screens were installed to straddle the groundwater table within the overburden soils above the glacial till. Shallow groundwater flow is generally from the south to the north across the Property. The locations of the monitoring wells are shown on Figure 2-2. The detailed descriptions of the monitoring well locations, as well as hydraulic consideration, are as follows:

- MW-6R, located hydraulically downgradient of the eastern portion of the Property;
- MW-13A, located hydraulically crossgradient (east) of former RA Areas 5, 7, 8, 13, and 14 as well as the RAF;
- MW-14, now MW-14A, located at the southeastern corner of the Property hydraulically upgradient of all former RA areas and the RAF;
- MW-17, located hydraulically downgradient of the NCT; and
- MW-18, located hydraulically downgradient of the former RA Areas 6, 7, 8, 9, and 10, as well as hydraulically upgradient of the SCT.

4.2 Groundwater Elevation Measurement

As part of the semi-annual groundwater monitoring program, groundwater level elevations were measured from the aforementioned monitoring wells on April 30, 2012, October 29, 2012, March 26, 2013 and October 29, 2013. Groundwater levels in the cleanouts for the NCT and SCT were also measured during the 2012 and 2013 sampling events, in order to contour the cone of depression created by the NCT and SCT. Monitoring well groundwater levels were measured from a designated reference point at the top of the PVC well riser using the procedures outlined in the OM&M Manual. The groundwater levels were measured on the same day, prior to low-flow groundwater sampling activities. Groundwater level measurements were recorded in a dedicated field book and later transferred to the Water Level Field Logs – Form D, which are provided in Appendix D. The groundwater level measurements were converted to elevations based on as-built survey information. The groundwater levels for the four groundwater sampling events conducted in 2012 and 2013 are shown in Table 4-1 – 2012 - 2013 Groundwater Elevation Summary. Monitoring well MW-17 was found to have insufficient groundwater to allow for sample collection, during both 2012 and 2013 sampling events. This is attributed to Pumping Manhole No. 2, which effectively lowered the water table to an elevation at or less than the total depth of

MW-17. The potentiometric surface is depicted in Figure 4-1a – Overburden Groundwater Elevation Contour Map - April 30, 2012, Figure 4-2b – Overburden Groundwater Elevation Contour Map – October 29, 2012, Figure 4-1b – Overburden Groundwater Elevation Contour Map - March 26, 2013 and Figure 4-2b – Overburden Groundwater Elevation Contour Map – October 29, 2013. A summary of groundwater levels from 1999 to 2013 is provided in Table 4-2 – Cumulative Groundwater Elevations.

4.3 Groundwater Sampling

Groundwater samples were obtained during two semi-annual groundwater monitoring events, for each year, conducted on April 30, 2012, October 29, 2012, March 26, 2013 and October 29, 2013 as part of the OM&M program. Groundwater samples were collected from monitoring wells MW-6R, MW-13A, MW-14/MW-14R, and MW-18. As discussed in Section 4.1, MW-17 had insufficient groundwater during both 2012 and 2013 sampling events to allow for sample collection. Additionally, neither water levels nor groundwater samples were obtained from MW-14 during the March 26, 2013 sampling event as frost heave damaged the inner casing, requiring replacement. On June 17, 2013 MW-14 was decommissioned and reinstalled close by as MW-14A using the original boring log from the RI.

Based on the guidance set forth in the OM&M Manual, the groundwater sampling events completed in 2012 and 2013 were scheduled as semi-annual. The groundwater samples were submitted for laboratory analysis for VOCs of concern, polychlorinated biphenyls (PCBs), and select metals. Analytical results for VOCs, PCBs, and metals were compared to standards presented in the NYSDEC Division of Water *Technical and Operation Guidance Series* (1.1.1) (TOGS 1.1.1), June 1998.

Beginning with the April 26, 2011 sampling event, the overburden monitoring wells was sampled via low flow sampling methods. In addition to reducing total dissolved solids (TDS) and turbidity levels, low flow sampling methods provide the following benefits:

- Improved sample quality, analytical accuracy and precision through reduced disturbance to the well and formation;
- Reduced purge water volume (90-95%);
- Improved detection and resolution of contaminants;
- Reduced time for purging and sampling; and
- Significant technical and cost benefits.

Groundwater samples were collected after the field indicator parameters stabilized to within the acceptable tolerances. Groundwater field parameters were obtained from each monitoring well just prior to sampling, and included groundwater levels, pH, conductivity, dissolved oxygen, turbidity, ORP and temperature. Following stabilization, the groundwater samples were collected prior to the inlet of the flow-through-cell. Groundwater samples were discharged directly from the sample tubing into appropriate sample containers, containing the appropriate sample preservative for each analysis, supplied by the analytical laboratory. The purged groundwater was containerized and transferred to the on-site leachate collection manhole, part of the RAF, for discharge as outlined in section 3.0.

Groundwater samples were collected and analyzed for VOCs, PCBs and total metals. Each grab sample was placed directly into laboratory-provided containers, labeled, logged in to a chain of custody document, and stored on ice in an insulated cooler pending delivery to the laboratory for analysis. Quality assurance/quality control (QA/QC) groundwater samples were collected at a frequency described below.

Trip Blanks

On events/days when aqueous samples were delivered to the laboratory for VOC analysis, a trip blank was included. A trip blank is an aliquot of analyte-free water, sealed in a 40 milliliter glass vial with a Teflon-lined septum cap prepared by the laboratory prior to initiation of fieldwork. The sealed vials were prepared by the laboratory and included with each shipment of sample bottles for aqueous media

sampling at the Property. The trip blank may determine if contamination of the samples has occurred during shipment/delivery.

Duplicate Samples

Duplicate samples were collected and analyzed to evaluate the reproducibility of the analytical technique used. One duplicate sample (DUP-1) was collected from monitoring well MW-18 for the site specific parameters during all (4) four of the sampling events during 2012 - 2013. Groundwater from a selected monitoring well was divided between the primary sample and the duplicate sample laboratory containers, logged on the chain of custody and submitted to the laboratory.

Matrix Spike / Matrix Spike Duplicates

Matrix spike and matrix spike duplicate samples were collected to measure the accuracy of organic analyte recovery from the sample matrices. For organic constituents and metals, one matrix spike and one matrix spike duplicate sample was analyzed for each sampling event.

The April 2012 samples were submitted to Test America Laboratories of Amherst, New York. The October 2012, March 2013 and October 2013 samples were submitted to Alpha Analytical of Westborough, Massachusetts. Table 4-3 – Groundwater Constituents, Methods, and Practical Quantification Limits, details the groundwater sample analytical requirements. The Groundwater Sampling Logs - Form E, used during monitoring well sampling to record the groundwater field parameters, are provided in Appendix E.

4.4 Groundwater Analytical Results

The analytical results from the semi-annual groundwater sampling events, as compared to the TOGS 1.1.1 are presented in the subsequent summary tables. Table 4-4 – 2012 - 2013 Groundwater Analytical Results, summarizes the groundwater analytical data from the four semi-annual sampling events. Table 4-5 – Cumulative Groundwater Analytical Results, provides a historic summary of the groundwater analytical results from 1999 through 2013. The original laboratory analytical data for 2012 - 2013 were provided under separate cover to NYSDEC upon receipt from the laboratory, and are provided in Appendix F – Groundwater Analytical Data.

The following summarizes analytical data from each monitoring well and long term trends for 2012 and 2013.

MW-6R

- No VOCs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- No PCBs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- Zinc was detected during the April 2012 sampling event at estimated concentrations of 0.2 ug/l, however this is below the TOGS 1.1.1 guidance value of 2000 ug/l,
- Chromium, copper and zinc were detected during the October 2012 sampling event at estimated concentrations of 0.3 ug/l, 0.2 ug/l and 10.6 ug/l, however these were below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively;

- Chromium, copper and zinc were detected during the March 2013 sampling event at estimated concentrations of 0.4 ug/l, 0.4 ug/l and 15 ug/l, however these were below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively;
- Chromium, copper, lead and zinc were detected during the October 2013 sampling event at estimated concentrations of 0.1 ug/l, 0.1 ug/l, 0.3 ug/l and 5 ug/l, however these were below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l, 25 ug/l and 2000 ug/l, respectively; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDLs.

MW-13A

- No VOCs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- No PCBs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- Zinc was detected during the April 2012 sampling event at estimated concentrations of 0.2 ug/l, however this is below TOGS 1.1.1 guidance value of 2000 ug/l, respectively;
- Chromium, copper and zinc were detected during the October 2012 sampling event at estimated concentrations of 0.3 ug/l, 0.3 ug/l and 8.5 ug/l, however these are below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively;
- Chromium, copper and zinc were detected during the March 2013 sampling event at estimated concentrations of 0.2 ug/l, 0.5 ug/l and 15 ug/l, however these are below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively;
- Chromium, copper and zinc were detected during the October 2013 sampling event at estimated concentrations of 0.3 ug/l, 0.2 ug/l and 8.5 ug/l, however these are below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-14/MW-14A

- No VOCs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- No PCBs were detected at concentrations above their respective MDLs during either of the 2012 or 2013 sampling events;
- Zinc was detected during the April 2012 sampling event at estimated concentrations of 0.2 ug/l, however below TOGS 1.1.1 guidance value of 2000 ug/l, respectively;
- Chromium, copper, lead and zinc were detected during the October 2012 sampling event at estimated concentrations of 0.3 ug/l, 9.8 ug/l, 0.7 and 45.9 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l, 25 ug/l and 2,000 ug/l, respectively;

- No groundwater samples were collected from monitoring well MW-14 during the March 2013 sampling event, due to frost heave damage..
- Chromium, copper, lead and zinc were detected during the October 2013 sampling event at estimated concentrations of 14 ug/l, 19 ug/l, 13 and 51 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l, 25 ug/l and 2,000 ug/l, respectively; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-17

- Monitoring well MW-17 had insufficient water to allow sample collection during both 2012 and 2013 sampling events.

MW-18

- Vinyl chloride (VC) was detected at a concentration of 20 ug/l in the primary and duplicate samples, respectively, however below the TOGS 1.1.1 guidance value of 2 ug/l, during the April 2012 sampling event. No other VOCs were detected at concentrations above MDLs during either 2012 sampling event;
- VC was detected at a concentration of 8 ug/l, in the primary and duplicate sample, respectively, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the October 2012 sampling event. No other VOCs were detected at concentrations above MDLs during either 2012 sampling event;
- VC was detected at a concentration of 9.9 ug/l in the primary and duplicate samples, respectively, however below the TOGS 1.1.1 guidance value of 2 ug/l, during the March 2013 sampling event. No other VOCs were detected at concentrations above MDLs during either 2013 sampling event;
- VC was detected at a concentration of 21 ug/l, in the primary and duplicate sample, respectively, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the October 2013 sampling event. No other VOCs were detected at concentrations above MDLs during either 2013 sampling event;
- Chromium, copper and zinc were detected during the April 2012 sampling event at estimated concentrations of 4 ug/l, 10 ug/l and 10 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l and 2,000 ug/l, respectively;
- Chromium, copper and zinc were detected during the October 2012 sampling event at estimated concentrations of 0.2 ug/l, 0.5 ug/l and 9.2 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l and 2,000 ug/l, respectively;
- Chromium, and zinc were detected during the March 2013 sampling event at estimated concentrations of 0.2 ug/l and 9.2 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l and 2,000 ug/l, respectively; and
- Chromium, copper, lead and zinc were detected during the October 2013 sampling event at estimated concentrations of 1 ug/l, 2 ug/l, 0.3 ug/l and 11 ug/l however these are below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l, 25 ug/l and 2,000 ug/l, respectively;

- No PCBs were detected at concentrations above their respective MDLs during either 2012 and 2013 sampling events; and
- Historically, PCBs have not been detected at concentrations above the MDL.

4.5 Summary

An interpretation of the groundwater elevation measurements obtained during the 2012 and 2013 sampling events indicated that the overburden groundwater flow was generally to the north. The groundwater flow direction was influenced in the vicinity of the NCT and the SCT, due to the operation of the GTS. Monitoring well MW-17 continues to have insufficient groundwater to measure or sample, as a result of the NCT effectively lowering the groundwater table.

The groundwater quality from both the 2012 and 2013 groundwater sampling events are generally consistent with historic data. VC has been detected in monitoring well MW-18 above its analytical MDL for consistently during sampling events and continues to demonstrate the degradation of site specific groundwater constituents. As MW-18 is upgradient of the groundwater depression created by the SCT, (see Figure 4-1 and 4-2), the groundwater monitored at MW-18 is directed, collected, and treated via the GTS, discussed in Section 6. . On June 17, 2013 MW-14 was decommissioned and reinstalled as MW-14A.

The April 26, 2011 sampling event represents the first sampling event conducted utilizing low flow sampling methods. Concentrations of certain metals did not exceed TOGS 1.1.1 guidance values and have not demonstrated exceedances since 2002. Detectable concentrations of PCBs were not identified in groundwater from any of the current monitoring locations during the 2012 and 2013 sampling events.

Based on the successful integration of low-flow sampling into the groundwater monitoring program Synapse concludes that the OM&M Manual groundwater sampling procedures section should be modified to reflect the new sampling method.

4.6 Tables

- 4-1 2012 - 2013 Groundwater Elevation Summary
- 4-2 Cumulative Groundwater Elevations
- 4-3 Groundwater Constituents, Methods, and Practical Quantification Limits
- 4-4 2012 - 2013 Groundwater Analytical Results
- 4-5 Cumulative Groundwater Analytical Results

TABLE 4-1
2012 - 2013 GROUNDWATER ELEVATION SUMMARY

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA NEW YORK
NYSDEC SITE NO. 622003

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation

Date Gauged: 4/30/12

MW-6R	462.69	10.52	10.51	465.47	4.05	461.42
MW-13A	467.30	11.07	11.05	469.23	3.18	466.05
MW-14	475.71	12.94	12.93	478.45	3.31	475.14
MW-17	463.89	11.25	11.25	466.02	10.97	Note 5
MW-18	474.10	11.73	11.72	475.96	5.16	470.80
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.72	465.70
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	NA	NA	465.31	11.94	453.37

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation

Date Gauged: 10/29/12

MW-6R	462.69	10.52	10.45	465.47	4.45	461.02
MW-13A	467.30	11.07	11.07	469.23	4.08	465.15
MW-14	475.71	12.86	12.85	478.37	4.86	473.51
MW-17	463.89	11.25	11.25	466.02	10.95	Note 5
MW-18	474.10	11.73	11.72	475.96	6.06	469.90
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.71	465.71
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	12.80	NA	465.31	11.96	453.35

Notes:

1. All values reported in feet.
2. TOR = Top of Riser.
3. Depth measurements are taken in hundredths of a foot from the TOR, which is a reference point at the highest part on the 2-inch riser pipe.
4. Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
5. MW-17 was found dry during both monitoring events, bottom elevation = 454.70 feet.
6. The top of riser elevation was adjusted during maintenance on May 15, 2003 for monitoring wells MW-6R and MW-14.
7. MW = Monitoring Well.
8. SCT = Southern Collection Trench.
9. NCT = Northern Collection Trench.
10. CO = Clean Out (Depths and Elevations are Approximate).
11. MH = Manhole.
12. NA = Not Applicable.
13. NM = Not measured. Installed well depths used to calculate well casing columns.
14. Groundwater elevations were inferred at the following locations: SCT CO-1, SCT CO-2, SCT CO-3, and NCT CO-1.

TABLE 4-1
2012 - 2013 GROUNDWATER ELEVATION SUMMARY

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA NEW YORK
NYSDEC SITE NO. 622003

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation

Date Gauged: 3/26/13

MW-6R	462.69	10.52	10.51	465.47	3.86	461.61
MW-13A	467.30	11.07	11.05	469.23	2.75	466.48
MW-14	475.71	12.94	12.93	478.45	5.82	472.63
MW-17	463.89	11.25	11.25	466.02	10.41	Note 5
MW-18	474.10	11.73	11.72	475.96	4.59	471.37
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.72	465.70
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	NA	NA	465.31	11.94	453.37

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation

Date Gauged: 10/29/13

MW-6R	462.69	10.52	10.45	465.47	4.71	460.76
MW-13A	467.30	11.07	11.07	469.23	3.86	465.37
MW-14A	475.71	12.86	12.85	478.37	4.25	474.12
MW-17	463.89	11.25	11.25	466.02	10.24	Note 5
MW-18	474.10	11.73	11.72	475.96	6.19	469.77
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.71	465.71
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	12.80	NA	465.31	11.96	453.35

Notes:

1. All values reported in feet.
2. TOR = Top of Riser.
3. Depth measurements are taken in hundredths of a foot from the TOR, which is a reference point at the highest part on the 2-inch riser pipe.
4. Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
5. MW-17 was found dry during both monitoring events, bottom elevation = 454.70 feet.
6. The top of riser elevation for MW-14A was conducted on June 16, 2013 following installation.
7. MW = Monitoring Well.
8. SCT = Southern Collection Trench.
9. NCT = Northern Collection Trench.
10. CO = Clean Out (Depths and Elevations are Approximate).
11. MH = Manhole.
12. NA = Not Applicable.
13. NM = Not measured. Installed well depths used to calculate well casing columns.
14. Groundwater elevations were inferred at the following locations: SCT CO-1, SCT CO-2, SCT CO-3, and NCT CO-1.

**TABLE 4-2
CUMULATIVE GROUNDWATER ELEVATIONS**

**2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Sample Date	Well ID					
	MW-3	MW-6R	MW-13A	MW-14	MW-17	MW-18
3/26/1999	467.93	461.78	465.83	474.82	462.14	469.97
9/20/1999	467.60	461.14	464.36	470.78	460.70	467.83
3/14/2000	467.72	461.63	466.38	475.05	459.45	470.03
9/14/2000	467.42	461.15	464.98	473.72	457.37	468.83
3/29/2001	470.86	456.35	460.93	467.74	457.24	469.52
9/13/2001	Note 2	460.85	464.18	470.9	457.11	469.56
3/27/2002	Note 2	460.96	466.89	475.19	DRY	470.82
9/19/2002	Note 2	461.21	465.41	470.92	DRY	468.10
4/24/2003	Note 2	461.55	466.81	475.24	DRY	472.13
10/22/2003	Note 2	460.97	465.23	474.66	DRY	469.61
4/22/2004	Note 2	461.59	466.67	475.34	DRY	471.25
10/18/2004	Note 2	461.03	465.01	472.53	DRY	468.93
4/27/2005	Note 2	461.54	466.51	475.13	DRY	471.06
10/20/2005	Note 2	461.15	465.17	474.47	DRY	469.66
4/19/2006	Note 2	461.4	466.16	474.66	DRY	470.40
9/26/2006	Note 2	461.01	465.07	472.46	DRY	469.15
4/18/2007	Note 2	461.78	467.09	475.46	DRY	471.24
10/23/2007	Note 2	461.71	465.17	471.42	DRY	469.25
4/29/2008	Note 2	461.87	466.82	475.5	DRY	470.84
10/14/2008	Note 2	460.98	464.98	472.94	DRY	469.64
4/13/2009	Note 2	461.44	466.67	474.89	DRY	470.84
10/15/2009	Note 2	461.2	465.58	473.8	DRY	470.14
4/29/2010	Note 2	461.12	466.38	474.2	DRY	470.15
10/28/2010	Note 2	461.44	466.04	475.62	DRY	471.51
4/26/2011	Note 2	461.22	466.01	475.3	DRY	470.27
10/25/2011	Note 2	461.32	466.12	475.28	DRY	470.65
4/30/2012	Note 2	461.42	466.05	475.14	DRY	470.8
10/29/2012	Note 2	461.02	465.15	473.51	DRY	469.9
3/26/2013	Note 2	461.61	466.48	472.63	DRY	471..37
10/29/2013	Note 2	460.76	465.37	474.12	DRY	469.77

Notes:

1. All elevations reported in feet above mean sea level.
2. MW-3 was decommissioned in September 2001.
3. MW-17 has been "Dry" since the installation of Pumping MH-2 in March 2002.
4. MW-14/MW-14A decommissioned and reinstalled on June 17, 2013.

TABLE 4-3
GROUNDWATER CONSTITUENTS, METHODS AND PRACTICAL QUANTIFICATION LIMITS

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Constituent	Practical Quantification Limits (PQLs)
VOCs of Concern - USEPA Method 8260	
cis-1,2-Dichloroethene	1
trans-1,2-Dichloroethene	1
Trichloroethylene	1
Vinyl Chloride	1
Metals of Concern - USEPA Method 200.7	
Chromium	10
Copper	10
Lead	10
Zinc	10
PCBs - USEPA Method 608	
Aroclor 1016	0.05
Aroclor 1221	0.05
Aroclor 1232	0.05
Aroclor 1242	0.05
Aroclor 1248	0.05
Aroclor 1254	0.05
Aroclor 1260	0.05

Notes:

1. All values reported in micrograms per liter (ug/l), approximately equivalent to parts per billion (ppb).
2. VOCs = Volatile Organic Compounds.
3. PCBs = Polychlorinated biphenyls.
4. VOCs of concern PQLs are based on USEPA SW-846 Method 8260 contract required quantification limits (CRQLs). Specific quantifications are highly matrix dependent. The quantification limits shown are provided for guidance and may not always be achievable.
5. USEPA Method 200.7 will be used for analysis of metals of concern. PQLs presented are based on RCRA TCL CRQLs. CQRLs shown for metals of concern are provided for guidance and may not always be achievable.

TABLE 4-4
2012 - 2013 GROUNDWATER ANALYTICAL RESULTS

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

April 2012 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	043012-DUP
Date Sampled			4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012	4/30/2012
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	<1	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	20	19
Metals								
Chromium	10	50	<4	<4	<4	NS	<4	<10
Copper	10	200	<10	<10	<10	NS	<10	3.3 J
Lead	10	25	<5	<5	<5	NS	<5	<10
Zinc	10	2,000	0.2 J	0.2 J	0.2 J	NS	<10	<20
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

October 2012 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	102912-DUP
Date Sampled			10/29/2012	10/29/2012	10/29/2012	10/29/2012	10/29/2012	10/29/2012
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	<1	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	8.0	8.6
Metals								
Chromium	10	50	0.3 J	0.3 J	0.3 J	NS	0.2 J	<10
Copper	10	200	0.2 J	0.3 J	9.8	NS	0.5 J	0.6 J
Lead	10	25	<10	<10	0.7 J	NS	<10	<10
Zinc	10	2,000	10.6	8.5 J	45.9	NS	9.2	10.7
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

TABLE 4-4
2012 - 2013 GROUNDWATER ANALYTICAL RESULTS

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

March 2013 Sampling Event

Well ID	Detection Limit	Standards and Guidance	MW-6R	MW-13A	MW-14	MW-17	MW-18	032613-DUP
Date Sampled			3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013	3/26/2013
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	<1	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	9.9	9.8
Metals								
Chromium	10	50	0.4 J	0.2 J	NS	NS	<1	0.4 J
Copper	10	200	0.4 J	0.5 J	NS	NS	0.7 J	0.9 J
Lead	10	25	<1	<1	NS	NS	<1	<1
Zinc	10	2,000	15	15	NS	NS	16	16
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

October 2013 Sampling Event

Well ID	Detection Limit	Standards and Guidance	MW-6R	MW-13A	MW-14A	MW-17	MW-18	102913-DUP
Date Sampled			10/29/2013	10/29/2013	10/29/2013	10/29/2013	10/29/2013	10/29/2013
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	<1	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	21	20
Metals								
Chromium	10	50	0.1	0.3 J	14	NS	1	1
Copper	10	200	0.1	0.3 J	19	NS	2	2
Lead	10	25	0.3 J	<10	13	NS	0.3 J	0.2 J
Zinc	10	2,000	5 J	8.5 J	51	NS	11	8 J
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

Notes:

1. Sample results and NYSDEC Standards reported in ug/l; approximately equivalent to parts per billion (ppb).
2. Guidance Values are established by NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1).
3. NS = Not Sampled (Well Dry).
4. Bolded values exceed the constituent's established Standards and Guidance Values.
5. J = Estimated Value. The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
6. MW-14/MW-14A decommissioned and reinstalled on June 17, 2013.

TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

[illegible]

TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2012 - 2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

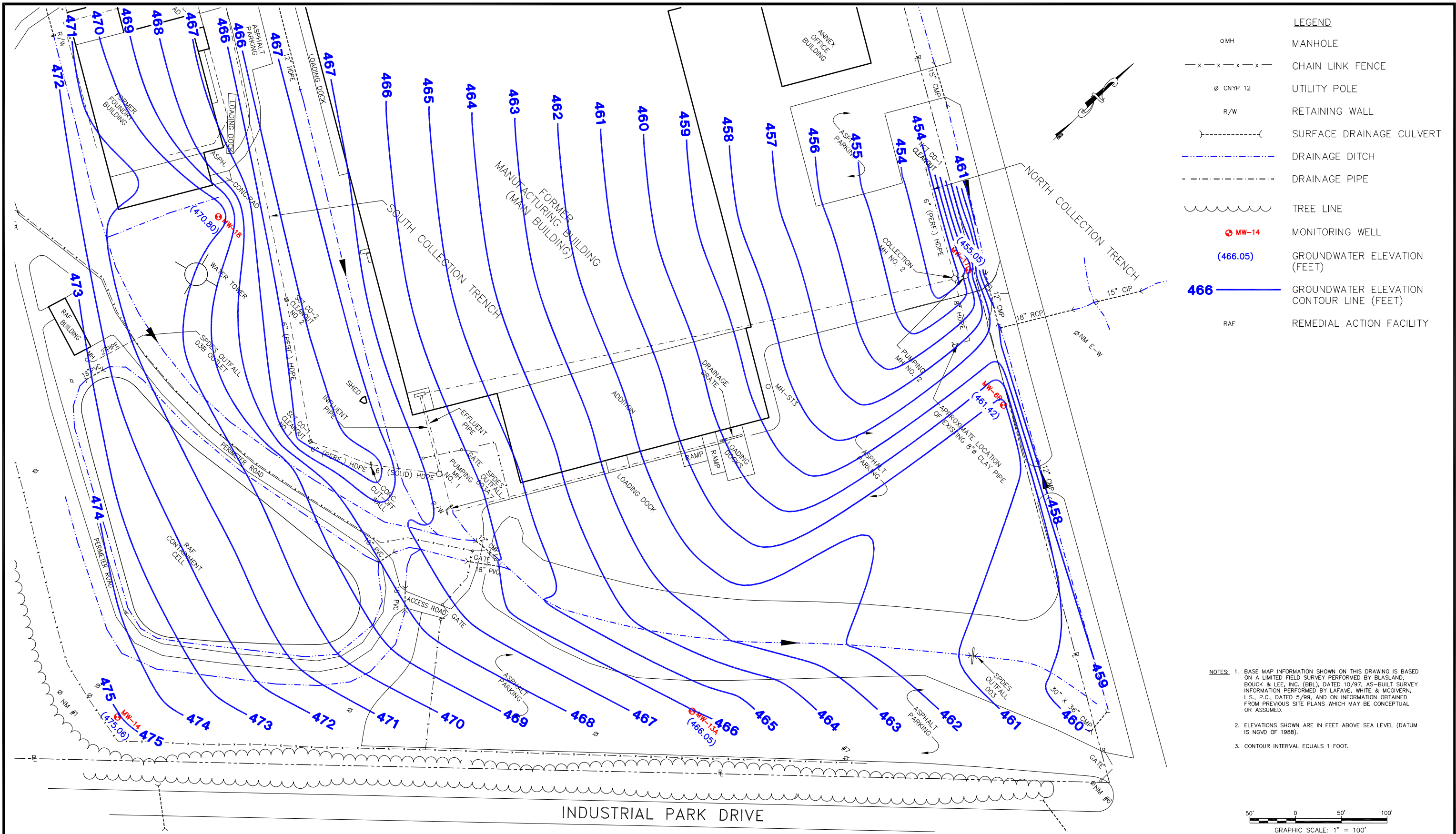
Monitoring Well ID	Parameters	Units	NYSDEC Guidance	1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
				March Primary	September Primary	March Primary	September Primary	March Primary	September Primary	March Primary	September Primary	March Primary	September Primary	April Primary	October Primary	April Primary	October Primary	April Primary	October Primary	April Primary	September Primary	April Primary	October Primary	April Primary	October Primary	April Primary	October Primary	April Primary	October Primary
MW-14	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.48 J	<1
MW-14	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	Chromium	ug/l	50	20.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.8	1.2 J	1.8
MW-14	Copper	ug/l	200	48	6B	<10	<10	<10	<10	<10	<10	<10	27	12	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	5.3	4.9 J	5.3
MW-14	Lead	ug/l	25	8	<5	<5	<5	<5	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5	<5
MW-14	Zinc	ug/l	2,000	36	6.5B	28	42	15	<10	<10	20	29	100	17	<10	15	<10	<10	<10	<10	<10	21	14	16	<10	<20	5.8	9.1 J	5.8
MW-14	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05
MW-17	cis-1,2-Dichloroethene	ug/l	5	<5	7	<5	5.2	8.9	7.4	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Trichloroethylene	ug/l	5	<5	25	22	24	24	16	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Vinyl Chloride	ug/l	2	<2	<2	<5	<5	<2	<2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Chromium	ug/l	50	4	21B	<10	<10	<10	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Copper	ug/l	200	16B	<10	<10	<10	<10	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Lead	ug/l	25	2.4B	<5	<5	<5	<5	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Zinc	ug/l	2,000	14.6B	7.1B	13	57	32	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-18	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	Vinyl Chloride	ug/l	2	<2	<2	<5	<5	<2	<5	<2	2.6	3.9	6.1	3.5	7	5.6	7.1	9.9	15	7.5	17	15	34	15	16	20	3.5	1.1	22.0
MW-18	Chromium	ug/l	50	60.1	19.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	<10	<10	1.5	<10	<4
MW-18	Copper	ug/l	200	109	7.6B	<10	<10	<10	<10	<10	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	<10	<10	8.4	<10	<10	
MW-18	Lead	ug/l	25	35.6	9.3	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	<10	<10	15	<10	<10	<5	<10	<5	
MW-18	Zinc	ug/l	2,000	172	51	16	58	21	22	<10	<10	17	18	<10	13	<10	63	<10	<10	<10	<10	24	26	42	<10	<20	2.4	<20	2.2 J
MW-18	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	&lt																	

Notes:

1. All results reported in micrograms per liter (ug/l) approximately equivalent to parts per billion (ppb).
2. B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
3. C = Value was reported as a laboratory cross-contaminant.
4. E = The reported value is estimated due to the presence of interference(s).
5. NS-1 = No Sample - Well Decommissioned.
6. NS-2 = No Sample - Well Dry.
7. **Bolded values exceed the constituent's established TOGS 1.1.1 guidance values.**
6. **MW-14/MW-14A decommissioned and reinstalled on June 17, 2013.**

4.7 Figures

- 4-1a Overburden Groundwater Elevation Contour Map - April 30, 2012
- 4-2a Overburden Groundwater Elevation Contour Map - October 29, 2012
- 4-1b Overburden Groundwater Elevation Contour Map – March 26, 2013
- 4-2b Overburden Groundwater Elevation Contour Map - October 29, 2013



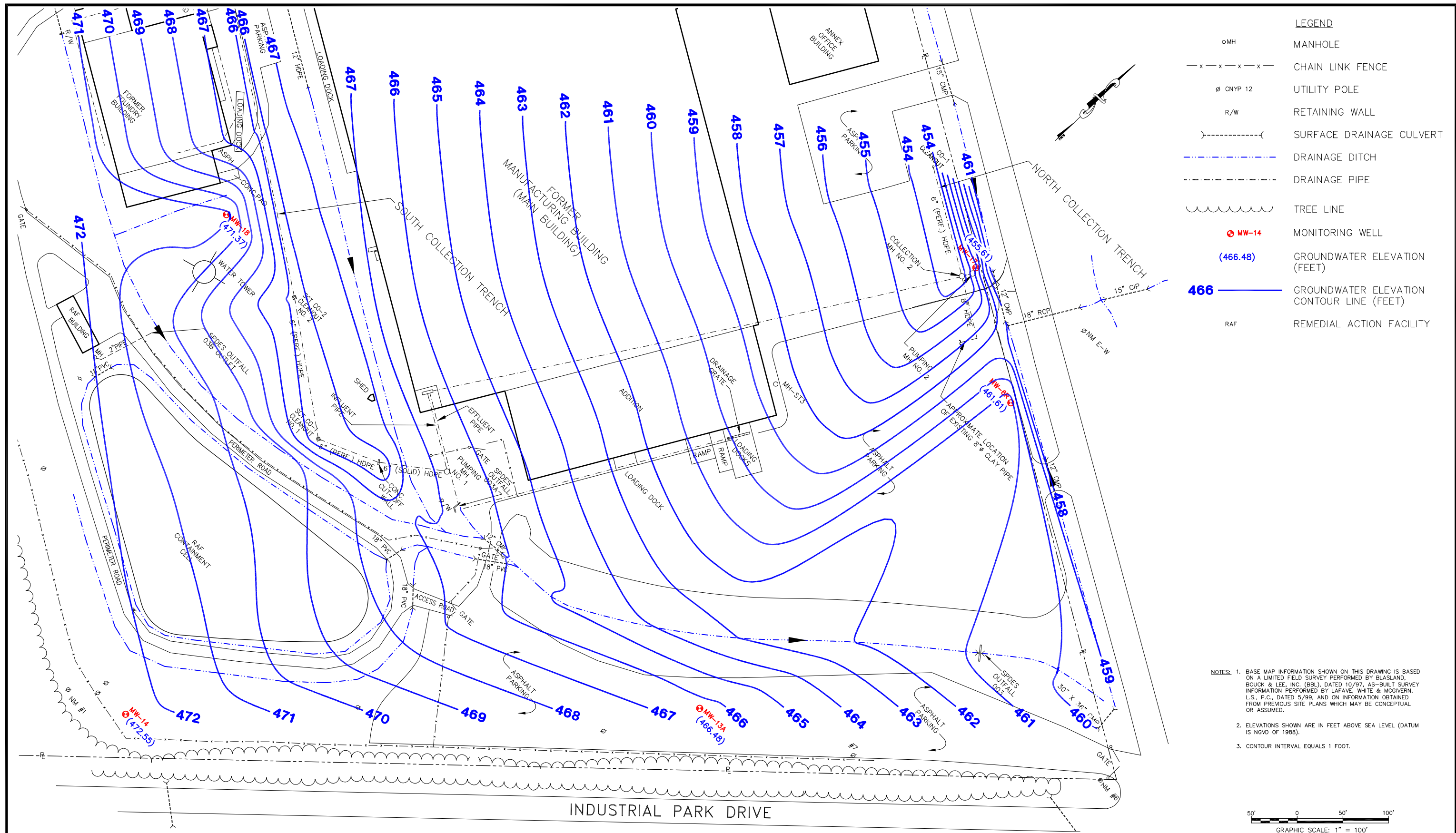
X: CP-BASE
P: BL
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB01.DWG

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2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

**OVERBURDEN GROUNDWATER
ELEVATION CONTOUR MAP
APRIL 30, 2012**

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014
FIGURE NO.:
4-1a



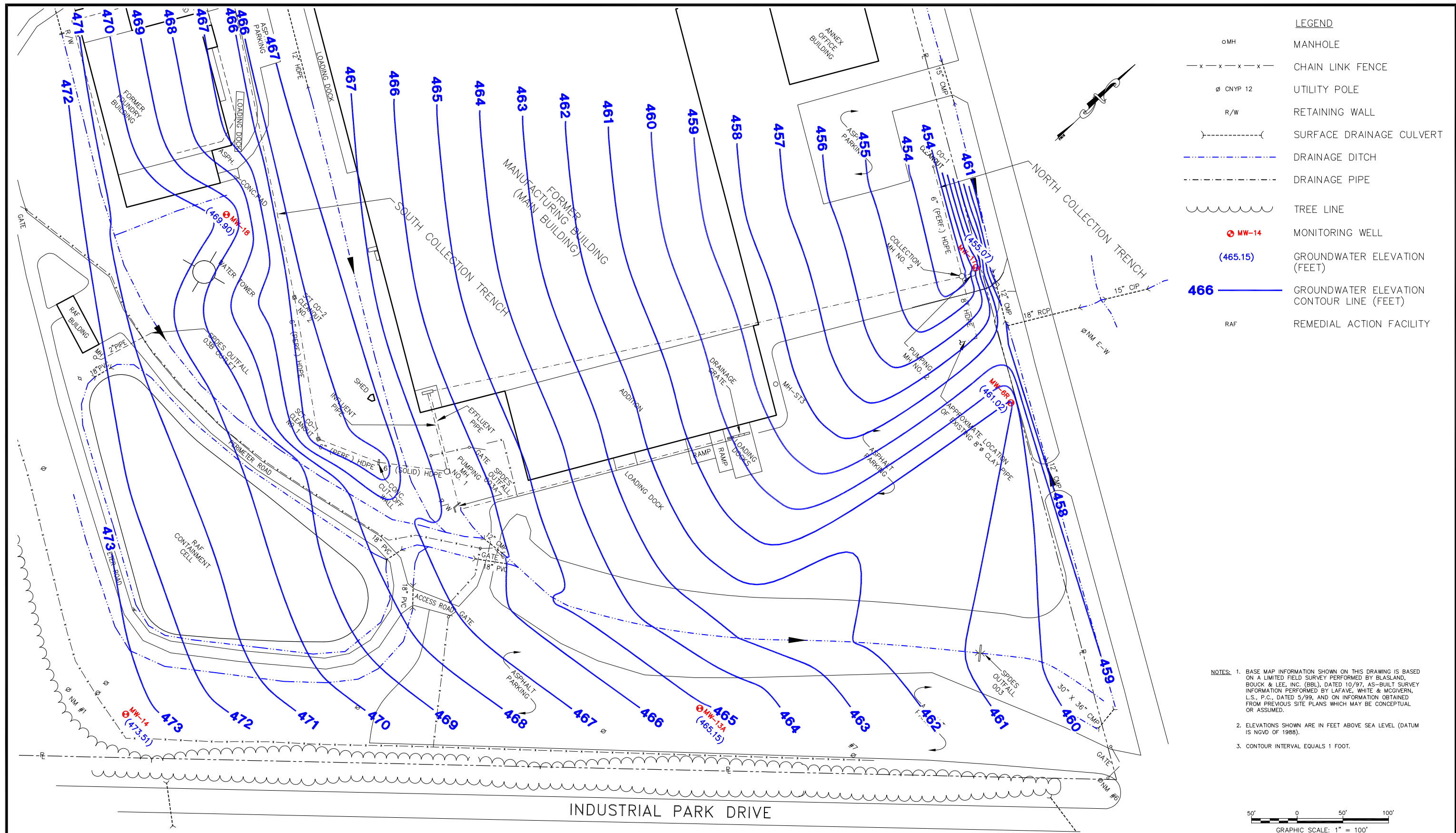
X: CP-BASE
P: BL
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB01b.DWG

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2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

**OVERBURDEN GROUNDWATER
ELEVATION CONTOUR MAP
MARCH 26, 2013**

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014
FIGURE NO.:
4-1b



X: CP-BASE
P: BL
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB02.DWG

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2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

**OVERBURDEN GROUNDWATER
ELEVATION CONTOUR MAP
OCTOBER 29, 2012**

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014
FIGURE NO.:
4-2a

5.0 SITE MANAGEMENT - STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM

UHC was issued a SPDES permit (No. NY0257087) for the Property on September 1, 2002, with two subsequent modifications issued by NYSDEC, dated August 1, 2003, and November 20, 2003. On behalf of UHC, Synapse has been tasked to administer the scheduled technical and reporting requirements set forth in the SPDES Permit. The SPDES Permit was administratively renewed on September 18, 2007, without certain modifications to Outfall 001, 002 and 003 requested by UHC.

In March 2009 UHC received a SPDES Permit modification that created Outfall 03B, approving leachate generated from the containment cell to accumulate in the leachate collection manhole and no longer be directed to the 5,000-gallon aboveground storage tank. The collection manhole leachate was visually observed during scheduled monthly RAF inspections and maintenance. The controls are operated by hand to transfer leachate from the collection manhole to Outfall 03B. Additionally, liquid levels are monitored utilizing one of the existing eight programmed ISACC (auto dialer system) channels. The ISACC channel is programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole. Based on volume of the leachate collection manhole and the current average liquid generation rate of 7.4 gpd, four batches were discharged, metered at 880, 600, 600 and 600 gallons, from the collection manhole to Outfall 03B during 2012 (See Table 3-1). As of April 11, 2013, the leachate storage system has been restored to operate as designed and set forth in the RD.

The SPDES Permit is specific to activities conducted at the Property, including the Main Building owned by 2200 Bleecker Street, LLC, and permits the discharge stormwater and leachate from four outfalls as depicted in Figure 5-1 – SPDES Outfall 001 Manhole Plan and Section, Figure 5-2 – SPDES Outfall 002 Manhole Plan and Section, Figure 5-3 – SPDES Outfall 003 Plan and Section, and Figure 5-4 – SPDES Outfall 03B Plan. UHC has no control of 2200 Bleecker activities, nor that of its tenants. A significant portion approximately (85%) of the total flow monitored by UHC at the permitted Outfalls 001, 002 and 003 is from contribution associated with the operations of 2200 Bleecker, its tenants, and CPTC's Outfall 03A permitted under SPDES Permit No. NY0108537 (see Section 6.4). The following section reviews Outfall contributions, construction, routine monitoring, analytical results, specialized studies and testing, as well as, unscheduled maintenance.

As a result of a civil litigation pending in Herkimer County Supreme Court and following an Order of Civil Contempt entered against Coolidge Utica LLC, Coolidge Utica LLC was judicially required to submit an application to NYSDEC for a SPDES permit authorizing discharges by Coolidge Utica LLC and its tenants. Coolidge Utica LLC did submit a SPDES permit application to NYSDEC on or about March 2006, which was determined incomplete by NYSDEC. According to public records, the main building and other improvements at 2200 Bleecker Street were conveyed by deed dated October 12, 2009 to 2200 Bleecker Street, LLC. On or about December of 2009, 2200 Bleecker Street, LLC submitted an application to NYSDEC for a SPDES permit authorizing discharges from the facility by 2200 Bleecker Street and its tenants. NYSDEC reportedly issued a notice of complete application to 2200 Bleecker Street, LLC's in 2010.

NYSDEC issued UHC a permit on September 24, 2012 following a five-day demand letter dated September 17, 2012. A demand letter was issued by UHC because the SPDES Permit was expiring and the Permit Modification request had gone unanswered. The parameters requested to be removed remained on the permit. UHC requested an administrative Hearing to review the applicability of the parameters on UHC's permit in correspondence dated October 22, 2012.

In March 2013, 2200 Bleecker Street Properties LLC withdrew its application for SPDES permit in direct disregard of the court order issued to its predecessor in title. NYSDEC approved 2200 Bleecker Street LLC's request even though NYSDEC and the Herkimer County Supreme Court had previously determined that the building owner is required to obtain coverage under the Industrial SPDES program.

UHC provided written notification to the NYSDEC pursuant to 6 NYCRR § 621.11(d) by correspondence that UHC intended to relinquish SPDES Permit NY 0257087 because UHC no longer has any activities or operations at the Property which cause or result in any discharge to waters of the State of New York.

Following months of negotiations and correspondence, NYSDEC issued UHC a letter dated January 24, 2014 that determined that a SPDES Permit was not required and granted UHC's relinquishment request. At this time it is not certain if the 2200 Bleeker Street, LLC has re-submitted a SPDES application to obtain coverage for the main building.

5.1 Outfall Contributions

Water contributions that discharge via the three permitted SPDES outfalls are as follows:

Outfall 001

UHC Contribution

- Parking lot catch basin (overland flow).

2200 Bleeker Contributions

- Building roof leaders;
- Sprinkler system drains (periodic); and
- Air conditioning condensate (during warm weather).

Outfall 002

UHC Contribution

- Parking lot catch basins (overland flow).

2200 Bleeker Contributions

- Building roof leaders; and
- Air conditioning condensate (during warm weather).

Outfall 003

UHC Contributions

- Stormwater from overland flow, including that from the RAF;
- Effluent from the containment cell discharged to via Outfall 03B (SPDES Permit No. NY-0257087)(note that this was discontinued on April 11, 2013); and
- Parking lots.

2200 Bleeker Contributions

- Building roof leaders;
- Sprinkler system drains (periodic); and
- Air conditioning condensate (during warm weather).

CPTC Contribution

- Post treated effluent from the GTS via Outfall 03A (SPDES Permit No. NY0108537).

Figure 5-5 – Stormwater System Partial Plan, depicts the numerous source points and areas, particularly from the Main Building, that contribute water to each outfall.

5.2 Outfall Construction

The four SPDES outfalls were located and constructed to facilitate collection of effluent samples and flow measurements representative of actual discharge conditions at the Property. The construction of each outfall is provided below.

Outfall 001

Construction activities for the Outfall 001 monitoring location were conducted between April 16 and April 26, 2002, and incorporated the following:

- Pavement and soil was excavated to install Outfall 001 Manhole at an area in the western parking lot where an existing drainage pipes, a 24-inch corrugated metal pipe (CMP) and a 24-inch vitrified clay pipe (VCP) intersected, approximately 5 feet below ground surface (bgs);
- A prefabricated 5-foot diameter cast concrete manhole base, with influent and effluent pipe penetrations, was placed in line with the existing subsurface drainage pipes and grouted;
- An 8-inch thick concrete cover, with a cast iron access cover, was installed to complete the manhole structure, followed by engineered fill and paving;
- A stainless steel, sharp edged, 120-degree, V-notch weir was installed at the effluent side of the manhole. The weir was fastened to the floor and sidewalls of the manhole utilizing concrete fasteners and sealed with grout;
- A 2-inch diameter, schedule 80, PVC flow measurement port was affixed adjacent to the weir, and calibrated to allow measurements of effluent flow rates based on the water level flowing over the weir; and
- A NYSDEC-approved sign was posted at the actual outfall outlet.

A detailed drawing of SPDES Outfall 001 Manhole is presented on Figure 5-1. Ultimately, the water is discharged further west of the monitoring point, into the unnamed creek.

Outfall 002

The Outfall 002 monitoring location was constructed from an existing 10.5-foot deep, 4-foot diameter red brick manhole near the northwestern corner of the Main Building. A 24-inch VCP, that is the part of the northern stormwater system, is sectioned by this manhole. As such, effluent flowing through the manhole was accessible and measurable upon application of the following upgrades:

- A stainless steel sharp edge, 120-degree, V-notch weir was installed adjacent to the effluent 24-inch VCP, at the bottom of the manhole. The weir was fastened to the floor and sidewalls of the manhole utilizing concrete fasteners and sealed with grout;
- A 2-inch diameter, schedule 80, PVC flow measurement port was affixed adjacent to the weir, and effluent flow rates were calibrated based on the water level flowing over the weir; and
- A NYSDEC-approved sign was posted on the bank, adjacent to the actual outfall outlet.

A detailed drawing of SPDES Outfall 002 Manhole is presented on Figure 5-2. Ultimately, the water is discharged further west of the monitoring point, into the unnamed creek.

Outfall 003

The Outfall 003 discharge location was constructed in an existing unnamed tributary to the Mohawk River, at the northeastern extent of the Property as follows:

- A 12-inch HDPE pipe was installed within a concrete headwall spanning the width of the tributary allowing surface water to flow through the pipe. Samples are collected and parameters measured directly from the effluent end of the 12-inch HDPE pipe;
- A monitoring port was installed adjacent to the concrete headwall to facilitate flow measurement data collection representative of actual discharge conditions. The monitoring port was constructed by installing a horizontal 2-inch PVC pipe at a measured elevation adjacent to the influent side of the headwall. This horizontal pipe connects (via a 90 degree elbow) to a vertical riser extending several feet above grade adjacent to the tributary. The water level of the tributary, and thus the flow rate, can be measured from this monitoring port; and
- A NYSDEC-approved sign was posted on the bank adjacent to the outfall outlet.

A detailed drawing of SPDES Outfall 003 is presented on Figure 5-3.

Outfall 03B

The Outfall 03B discharge location was constructed April 2009 in an existing unnamed tributary to the Mohawk River (former Area 6 drainage ditch), at the eastern portion of the Property as follows:

- A 2-inch diameter PVC pipe extends upward from each pump, passing through a check valve, an elbow, and a ball valve prior to joining the other pump at a tee. A 90 degree elbow was installed above the tee and connected to the flow meter with union connections on the influent and effluent end of the flow meter. The effluent end of the flow meter was connected to the 2-inch diameter poly pipe via a barbed connection. The ball valve is a union connection, facilitates pump removal, flow meter removal and plumbing repair, if required. The piping is inspected on a monthly basis during the scheduled RAF inspection from the surface through the access door; and
- The 2-inch diameter poly pipe emerges at the top of the slope of drainage ditch 6 where pipe transitions from 2-inch poly to 4-inch Polyvinyl Chloride (PVC). The 4-inch PVC pipe was affixed at the end with a metal screen to prevent access to vectors. At the point of discharge rip-rap has been placed as an energy dissipation device and adjacent to the point of discharge is the (18" x 24") green back sign with Outfall 03B's information.

A detailed drawing of SPDES Outfall 03B is presented on Figure 5-4. UHC discontinued use of this Outfall on April 11, 2013.

5.3 Monitoring

A primary regulatory requirement of the Property SPDES permit is to monitor concentrations of select constituents and physical parameters in the outfall effluent. A schedule of routine monitoring of effluent from Outfalls 001, 002, 003, and 03B have been set forth by NYSDEC, as discussed in Section 5.3.1 and 5.3.4, respectively. In addition, two non-routine monitoring/sampling programs have been prescribed for by NYSDEC, to include, PCB Congeners and Acute Toxicity, as discussed in Sections 5.3.2 and 5.3.3, respectively.

5.3.1 Routine Monitoring

August and November 2003 modifications to the Permit resulted in minor changes to the monitoring parameters and/or their scheduled monitoring frequencies. The current routine monitoring parameters and sampling frequencies, as prescribed for each outfall, are summarized in the following table:

Parameter	Units	Monitoring Frequency		
		Outfall 001	Outfall 002	Outfall 003
pH	S.U.	Once/2 weeks	Once/2 weeks	Once/2 weeks
Flow (in-situ measurement)	gpd	Once/2 weeks	Once/2 weeks	Once/2 weeks
Temperature	^o F	Once/2 weeks	Once/2 weeks	Once/2 weeks
Oil & Grease	mg/l	Monthly	Monthly	Monthly
Total Suspended Solids (TSS)	mg/l	Once/2 weeks	Once/2 weeks	Once/2 weeks
Total Residual Chloride	ug/l	NR	NR	Once/2 weeks
Phenolics	ug/l	Monthly	Monthly	Monthly
Antimony	ug/l	Quarterly	NR	NR
Chromium	ug/l	Semi-Annual	NR	NR
Copper	ug/l	Once/2 weeks	NR	NR
Fluoride	ug/l	Semi-Annual	Semi-Annual	NR
Lead	ug/l	Semi-Annual	NR	Semi-Annual
Zinc	ug/l	Semi-Annual	NR	Semi-Annual
Chloroform	ug/l	Once/2 weeks	NR	Once/2 weeks
cis 1,2-dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
trans 1,2- dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Trichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Vinyl chloride	ug/l	NR	NR	Once/2 weeks
PCBs	ng/l	NR	NR	Quarterly

Table notes:

S.U. = Standard Units
^oF = Degrees Fahrenheit
 mg/l = milligrams per liter
 ug/l = micrograms per liter
 ng/l = nanograms per liter
 NR = Not Required

Analytical data and real-time measurements obtained from the 2012 – 2013 routine monitoring events are summarized in Table 5-1 – Cumulative Summary of SPDES Monitoring Results. This data was also reduced and reported in monthly DMRs for submittal to NYSDEC. Results from routine monitoring events were compared to effluent compliance levels set in the Permit. DMRs were submitted to the NYSDEC Region 6, Division of Water representative, Richard Coriale, P.E., on a monthly basis. There was one excursion of compliance levels for the above parameters in 2012 and 2013 as follows.

- Total Suspended Solids (TSS) was identified at Outfall 002 at a concentration of 97 milligrams per liter (mg/l) during the January 6, 2012 sampling event. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on February 13, 2012.
- Cis-1,2-dichloroethylene (cis-1,2-DCE) was identified at Outfall 003 at a concentration of 14 micrograms per liter (ug/l) during the June 22, 2012 sampling event, exceeding the permit effluent limits of 10 ug/l. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on July 9, 2012 .
- Total Suspended Solids (TSS) was identified at Outfall 002 at a concentration of 266 milligrams per liter (mg/l) and Oil and Grease was identified at a concentration of 42 mg/l during the

December 20, 2012 sampling event. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of these excursions on January 22, 2013.

During a subsequent bi-weekly SPDES sampling event concentrations typically returned to permit compliance levels. Operations conducted at the Property by 2200 Bleecker and its tenants, which UHC has no control over, have the potential to directly impact the effluent water quality monitored by UHC at its permitted outfalls. Therefore, the source of the TSS identified at the outfalls may be related to contributions from the 2200 Bleecker Main Building. The cis-1,2-DCE is related to an upset condition reported at CPTC's SPDES Outfall 03A.

5.3.2 EPA Method 1668A PCB Study

Pursuant to the August 2003 SPDES Permit Modification, a three-year study of PCB congeners was required and previously completed at Outfall 003. Using USEPA Method 1668A, sampling and analysis of 209 PCB congeners was conducted at Outfall 003 on a quarterly basis between 2002 and 2005. There are no current or proposed regulatory requirements associated with this study.

5.3.3 Acute Toxicity Testing

As a *Special Condition* of the Permit, a Tier 1 effluent toxicity monitoring program is required to identify acute toxicity of effluent from each of the outfalls utilizing fresh water vertebrate and invertebrate species as follows:

- Outfall 001 – Effluent toxicity sampling of Outfall 001 is required quarterly during calendar years ending in [3] and [8];
- Outfall 002 – Effluent toxicity sampling of Outfall 002 is required quarterly during calendar years ending in [3] and [8]; and
- Outfall 003 – Effluent toxicity sampling of Outfall 003 is required quarterly during calendar years ending in [5] and [0].

According to the above Permit-specified schedule, effluent toxicity sampling was required to be conducted at Outfalls 001 and 002 during the 2013 calendar year.

2013 Acute Toxicity Sampling

The results of the 2013 sampling events are attached, and a tabular summary of the 48-hour median lethal concentration (LC₅₀) results for 2013 are presented herein. The SPDES Outfall 001 and Outfall 002 sampling locations are depicted on Figure 5-1 and 5-2, respectively. Attempts were made to conduct this sampling program during periods of stormwater runoff to best reflect actual effluent condition. It should be noted that a significant portion (approximately 90%) of the total flow monitored at Outfall 001 and Outfall 002 are associated with the stormwater contributions from the main building (owned by 2200 Bleecker Street, LLC) and its tenants.

SPDES Outfall 001 Sample Results – First Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (*Ceriodaphnia dubia*) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 001	Pimephales promelas	48-hr LC50 > 100% (0% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 001	Ceriodaphnia dubia	48-hr LC50 = 51.8 (40.8 – 65.7)

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		TUa = 100/LC50 = 100/51.8 = 1.93

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 51.8% mortality in 50% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of 1.93. The toxicity effect to the Ceriodaphnia dubia demonstrated at Outfall 001 is considered statistically significant based on the 65.7% cumulative mortality identified in 100% effluent concentration. As indicated in the above table, the 48-hr LC₅₀ test result for Ceriodaphnia dubia at Outfall 001 during the 2013 1st quarter was reported at 1.93 which exceeds the Toxic Units Acute objective of 0.3.

SPDES Outfall 002 Sample Results – First Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 002	Pimephales promelas	48-hr LC50 > 100% (0% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 002	Ceriodaphnia dubia	48-hr LC50 = 70.7 (50 – 100) TUa = 100/LC50 = 100/70.7 = 1.41

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 70.7% mortality in 50% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of 1.41. The toxicity effect to the Ceriodaphnia dubia demonstrated at Outfall 002 is considered statistically significant based on the 100% cumulative mortality identified in 100% effluent concentration. As indicated in the above table, the 48-hr LC₅₀ test result for Ceriodaphnia dubia at Outfall 002 during the 2013 1st quarter was reported at 1.41 which exceeds the Toxic Units Acute objective of 0.3.

SPDES Outfall 001 Sample Results – Second Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 001	Pimephales promelas	48-hr LC50 > 100% (0% mortality in 100% effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 001	Ceriodaphnia dubia	48-hr LC50 > 100% (0% mortality in 100% effluent) TUa = 100/LC50 = 100/>100=<1

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of <1.

SPDES Outfall 002 Sample Results – Second Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 002	Pimephales promelas	48-hr LC50 > 100% (0% mortality in 100% effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 002	Ceriodaphnia dubia	48-hr LC50 = 100% (0% mortality in 100% effluent) TUa = 100/LC50 = 100/>100 = <1

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of <1.

SPDES Outfall 001 Sample Results – Third Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 001	Pimephales promelas	48-hr LC50 > 100% (20% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 001	Ceriodaphnia dubia	48-hr LC50 = 46.7% (38.8 – 56.0) TUa = 100/LC50 = 100/46.7 = 2.14

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 46.7% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of 2.14. The toxicity effect to the Ceriodaphnia dubia demonstrated at Outfall 001 is considered statistically significant based on the 46.7% cumulative mortality identified in 100% effluent concentration. As indicated in the above table, the 48-hr LC₅₀ test result for Ceriodaphnia dubia at Outfall 001 during the 2013 third quarter was reported at 2.14 which exceeded the Toxic Units Acute objective of 0.3.

SPDES Outfall 002 Sample Results – Third Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 002	Pimephales promelas	48-hr LC50 = 66% (59.9% - 72.6%) TUa = 100/LC50 = 100/66=1.52
Outfall 002	Ceriodaphnia dubia	48-hr LC50 = 15.9% (13.5 – 18.8) TUa = 100/LC50 = 100/15.9 = 6.29

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 66% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of 1.52. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 15.9% mortality in 50% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of 6.29. The toxicity effect to the Ceriodaphnia dubia demonstrated at Outfall 002 is considered statistically significant based on the 100% cumulative mortality identified in 100% effluent concentration.

SPDES Outfall 001 Sample Results – Fourth Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 001	Pimephales promelas	48-hr LC50 > 100% (0% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 001	Ceriodaphnia dubia	48-hr LC50 = 84.1% (69.4 – 101.8) TUa = 100/LC50 = 100/84.1 = 1.19

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 84.1% mortality in 100% whole effluent sample collected from Outfall 001, with a calculated Toxic Units Acute result of 1.19. The toxicity effect to the Ceriodaphnia dubia demonstrated at Outfall 001 is considered statistically significant based on the 84.1% cumulative mortality identified in 100% effluent concentration. As indicated in the above table, the 48-hr LC₅₀ test result for Ceriodaphnia dubia at Outfall 001 during the 2013 fourth quarter was reported at 1.19 which exceeded the Toxic Units Acute objective of 0.3.

SPDES Outfall 002 Sample Results – Fourth Quarter 2013

The 48-hour LC₅₀ test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC ₅₀
Outfall 002	Pimephales promelas	48-hr LC50 =100% (0% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1
Outfall 002	Ceriodaphnia dubia	48-hr LC50 =100% (0% mortality in 100 % effluent) TUa = 100/LC50 = 100/>100=<1

TUa = Toxic Units Acute

The Pimephales Promelas (Flat Head Minnow) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of <1. The Ceriodaphnia dubia (Water Flea) 48-hour LC₅₀ test resulted in 0% mortality in 100% whole effluent sample collected from Outfall 002, with a calculated Toxic Units Acute result of <1.

5.3.4 Outfall 03B

The March 2009 modifications to the Permit resulted in the addition of Outfall 03B that authorized the discharge of water generated from the containment cell to be discharged to a Property drainage ditch. The current routine monitoring parameters, sampling frequencies, analytical results and the discharges that occurred during 2012, as prescribed for Outfall 03B, are summarized in the following table:

Parameter	Units	Limits	1/4/2012	7/11/2012	9/15/2012	12/23/2012
Flow Rate	gpd	8.6	7.5	7.6	7.7	7.5
Temperature	°F	90	54	63	62	62
pH	S.U.	6.0-9.0	7.7	7.4	7.6	7.5
Total Suspended Solids	mg/l	10	<4	<4	<4	<4
Oil & Grease	mg/l	15	<5	<5	<5	<5
Copper, Total	ug/	500	35	5	18	5
Nickel, Total	ug/	2000	21	35	17	7
Zinc, Total	ug/	120	114	55	45	75
Lead, Total	ug/	10	<5	<5	<5	<5
Bis-(2-ethylhexyl) phthalate	ug/	10	<10	<10	<10	<10
Methoxychlor	ug/	18	<0.05	<0.05	<0.05	<0.05

Table notes:

S.U. = Standard Units^{8.2}

°F = Degrees Fahrenheit

mg/l = milligrams per liter

ug/l = micrograms per liter

5.4 Summary

UHC was issued the SPDES permit for Outfalls 001, 002, and 003 on September 1, 2002. During 2003, NYSDEC issued two modifications to the SPDES Permit. On behalf of UHC, Synapse has been conducting the technical and reporting requirements set forth in the SPDES Permit. In March 2010 UHC received approval of the requested SPDES Permit modification from NYSDEC that facilitated the construction of Outfall 03B, located upstream of SPDES Outfall 003, which UHC discontinued use of Outfall 03B on April 11, 2013.

There were three excursions of the compliance levels during 2012 and 2013. NYSDEC was notified of the excursions and a Report of Noncompliance Event was prepared and submitted with the monthly DMR.

Operations conducted at the property by 2200 Bleecker and its tenants, which UHC has no control over, have the potential to directly impact the effluent water quality monitored by UHC at its permitted outfalls. Based on the SPDES Stormwater Action Plan (June 2000), Outfalls 001 and 002 receive significant contributions from the 2200 Bleecker Main Building. In addition, UHC's SPDES Outfall 003 receives GTS effluent discharges from CTPC's SPDES Outfall-03A, which UHC has no control over. Based on the results of 2012 - 2013 SPDES monitoring at the four permitted outfalls Synapse concludes that OM&M Manual does not require updating or modification at this time.

Following months of negotiations and correspondence, NYSDEC issued UHC a letter dated January 24, 2014 that determined that a SPDES Permit was not required and granted UHC's relinquishment request. At this time it is not certain if the 2200 Bleecker Street, LLC has re-submitted a SPDES application to obtain coverage for the main building.

5.5 Tables

Table 5-1 Cumulative Summary of SPDES Monitoring Results 2012 - 2013

TABLE 5-1
2012 SUMMARY OF SPDES MONITORING RESULTS

2012 - 2013 PERODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '12		February '12		March '12		April '12		May '12		June '12		July '12		August '12			September '12		October '12		November '12		December '12	
Monitoring Date	Daily	Units	1/6/2012	1/20/2012	2/3/2012	2/17/2012	3/1/2012	3/16/2012	4/12/2012	4/27/2012	5/11/2012	5/25/2012	6/8/2012	6/22/2012	7/6/2012	7/20/2012	8/3/2011	8/17/2012	8/31/2012	9/14/2012	9/28/2012	10/12/2012	10/26/2012	11/9/2012	11/20/2012	12/7/2012	12/20/2012
Sampler ID	Max		rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	bhm	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc

SPDES Outfall 001																																
Flow Rate	Monitor	gpd	152	152	152	152	9026	152	152	9026	2314	9026	53235	3505	3505	3505	152	2314	1196	1196	152	1196	3505	6112	15800	3505						
Temperature	90	°F	45	43	42	42	42	44	44	47	52	49	67	63	71	70	69	67	69	73	59	64	61	52	52	51	45					
pH	6.0-9.0	SU	7.21	7.12	7.2	7.3	7.3	7.1	7.2	7.2	7.2	7.5	7.4	7.5	7.4	7.7	7.9	7.7	7.6	7.4	7.9	7.7	6.9	7.8	7.4	8.2	7.9					
Solids, Total Suspended	10 (dry)	mg/l	20.8	22.4	43	31	<4	<4	45	27	6	31	15.2	44	40.4	46	25	33	<4	5	<4	<4	<4	<4	18.4	<4	13					
	50 (wet)																															
cis-1,2-Dichloroethylene	10	ug/l	1	1.2	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
Trichloroethylene	10	ug/l	<1	1.5	3.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.6	<1	<1	<1	<1	<1	<1	<1	<1					
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	1.6	0.76	1.9	0.57	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	<1	<1					
Copper, Total	100	mg/l	7.9	5.3	7.5	22	17	31	2	6	3	6.6	2.1	2.6	2.4	<10	1.9	6.3	9.5	4.4	3.2	22	5	3.4	<10	7	3.6					
Oil & Grease	15	mg/l		<5		4		<5	1			<5		<5		<5		<5									<5					
Phenolics, Total	28	ug/l		<10		8		7	<10			<10		<10		7.9		<10														
Antimony, Total	300	ug/l				<20						<20		<20																<20		
Chromium, Total	51	ug/l				1.2																										
Fluoride, Total	2500	ug/l				460																										
Lead, Total	13	ug/l				<5																										
Zinc, Total	210	ug/l				23																										

SPDES Outfall 002																											
Flow Rate	Monitor	gpd	364	844	2058	101	364	364	101	4773	1582	10241	40716	208	4773	1178	208	37	37	364	3247	2314	844	844	1582	8947	364
Temperature	90	°F	51	43	43	42	45	43	46	47	53	49	67	63	67	67	68	66	69	73	60	66	63	52	51	52	48
pH	6.0-9.0	SU	7.02	7.14	7.3	7.4	7.2	7.2	7.5	7.5	7.3	7.7	7.5	7.4	7.5	7.8	7.2	7.6	7.9	7.9	8.7	7.2	7.7	7.4	7.6	8.4	8.3
Solids, Total Suspended	10 (dry)	mg/l	96.5	8.8	<4	31	<4	9	<4	7	<4	10	<4	<4	<4	6	<4	<4	<4	<4	<4	<4	18	<4	<4	<4	226
	50 (wet)																										
Oil & Grease	15	mg/l		6.3		<5		<5	1			<5		<5		<5	<5	<5			<5		2		<5		42
Phenolics, Total	24	ug/l		<10		7.9		<10	5			<10		<10		<10		7.9			<10		6		<10		<10
Fluoride, Total	1500	ug/l				90												90									

SPDES Outfall 003																											
Flow Rate	Monitor	gpd	43200	37800	100800	43200	43200	37800	60480	100800	20160	42840	33600	23261	21600	5040	7560	5040	5040	5040	16800	43200	30240	10080	30240	60480	151200
Temperature	90	°F																									
pH	6.0-9.0	SU																									
Solids, Total Suspended	10 (dry)	mg/l																									
	50 (wet)																										
Chlorine, Total Residual	100	ug/l																									
cis-1,2-Dichloroethylene	10	ug/l																									
trans-1,2-Dichloroethylene	10	ug/l																									
Trichloroethylene	10	ug/l																									
Vinyl Chloride	10	ug/l																									
Chloroform	46	ug/l																									
Oil & Grease	15	mg/l																									
Phenolics, Total	44	ug/l																									
PCBs, Aroclors (Compliance)	300	ng/l																									
PCBs, Congeners (1668A Study)	NA	pg/l																									
Lead, Total	10	ug/l																									
Zinc, Total	120	ug/l																									

TABLE 5-1 (continued)
2013 SUMMARY OF SPDES MONITORING RESULTS

2012 - 2013 PERODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '13		February '13		March '13		April '13		May '13		June '13		July '13		August '13			September '13		October '13		November '13		December '13	
Monitoring Date	Daily	Units	1/4/2013	1/18/2013	2/15/2013	2/22/2013	3/14/2013	3/26/2013	4/11/2013	4/26/2013	5/10/2013	5/23/2013	6/5/2013	6/20/2013	7/2/2013	7/17/2013	8/2/2013	8/14/2013	8/28/2013	9/13/2013	9/24/2013	10/8/2013	10/25/2013	11/7/2013	11/21/2013	12/6/2013	12/18/2013
Sampler ID	Max		nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc	nrc

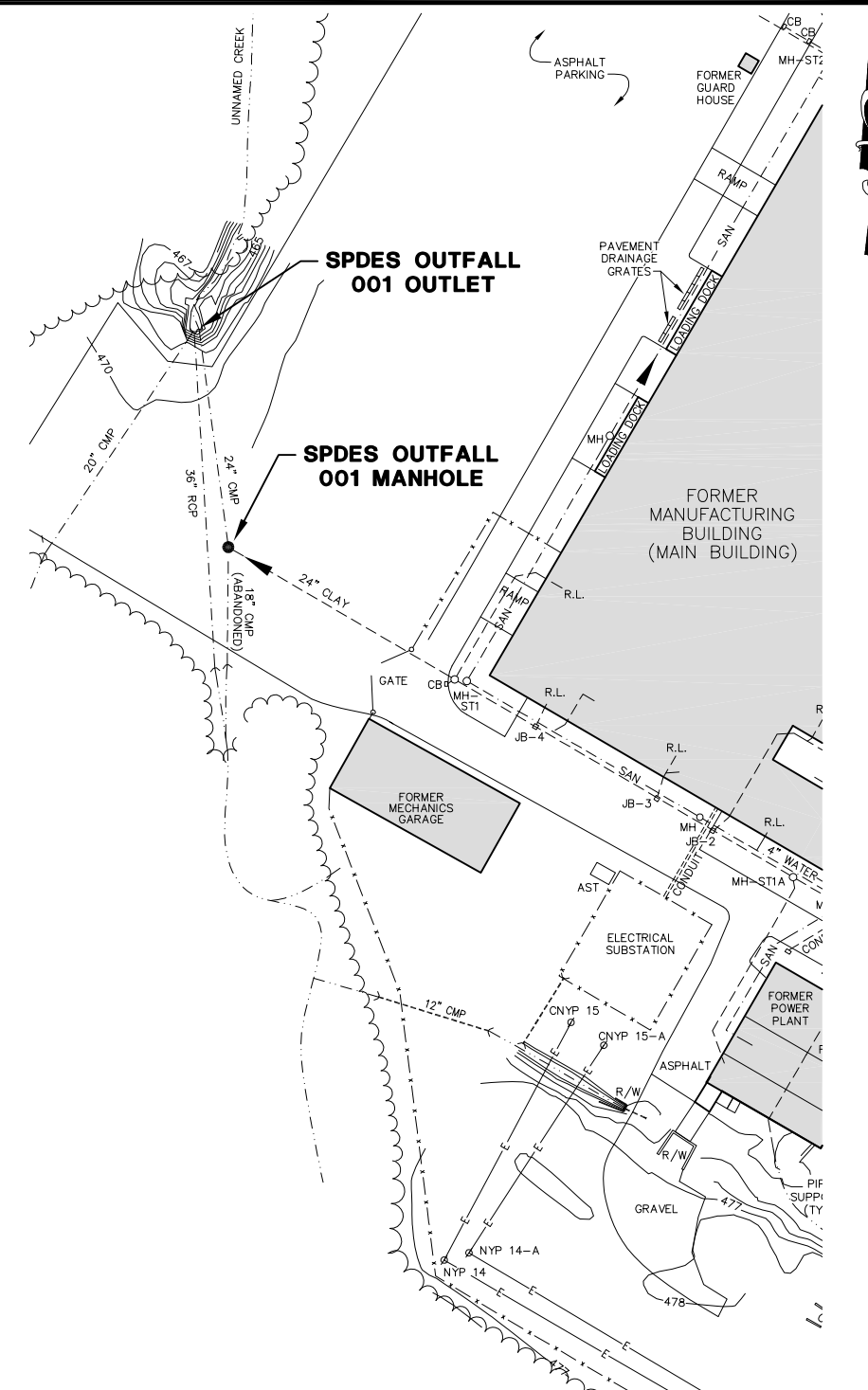
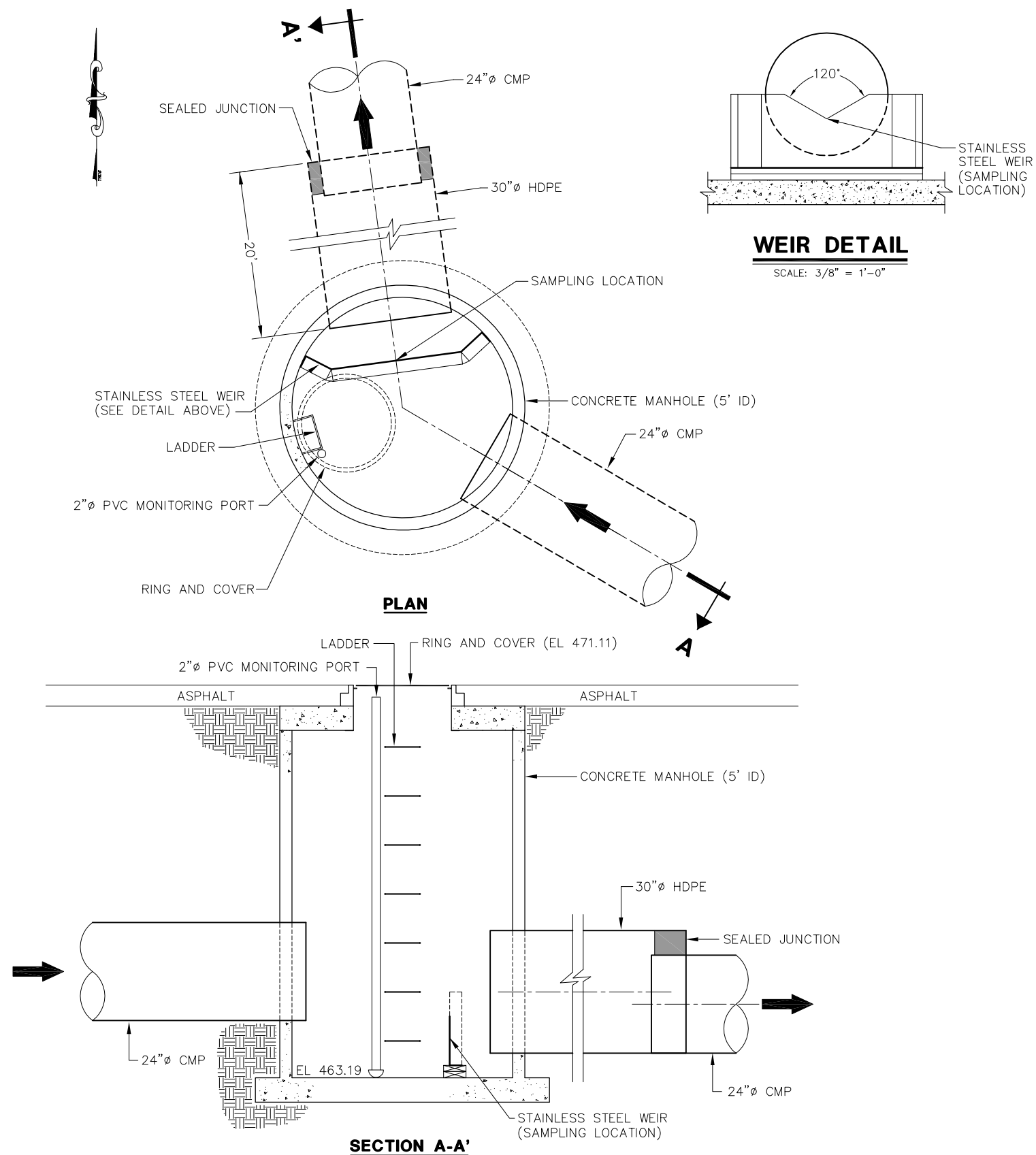
SPDES Outfall 001																																																											
Flow Rate	Monitor	gpd	9026	3505	6112	44163	9026	152	9026	152	1196	152	3505	3505	2314	152	2314	1196	2314	152	152	152	1196	43200	6112	5222	6175																																
Temperature	90	°F																																																									
pH	6.0-9.0	SU																																																									
Solids, Total Suspended	10 (dry)	mg/l																																																									
	50 (wet)																																																										
cis-1,2-Dichloroethylene	10	ug/l	<5	<5	13	17	28	33	8	42	58	27	44	43	14	40	14	<5	15	<5	<4	NS	NS	NS	NS	NS	5.9																																
trans-1,2-Dichloroethylene	10	ug/l	<1	1	1.3	<1	1.3	1.0	1	<1	<1	<1	<1	<1	<1	<1	<1	9	1	<1	4	NS	NS	NS	NS	NS	<1																																
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NS	NS	NS	NS	NS	<1																																
Chloroform	46	ug/l	NA	<1	NA	<1	na	na	<1	<1	<1	<1	na	na	<1	<1	<1	<1	<1	<1	<1	NS	NS	NA	NS	NA	NA																																
Copper, Total	100	ug/l	8	<10	11	14	<10	7	14	<10	<10	12.0	4	<10	8	<10	20	21	18	9	7	NS	NS	NS	NS	NS	0.006																																
Oil & Grease	15	mg/l		<5	<5		<4			<4		<4		<5	14		<4			<4			NS																																				
Phenolics, Total	28	ug/l		<10	<10		20			<20		20		24	<10		10			3			NS																																				
Antimony, Total	300	ug/l								<10							<20						<20									<50																											
Chromium, Total	51	ug/l																																																									
Fluoride, Total	2500	ug/l																																																									
Lead, Total	13	ug/l																																																									
Zinc, Total	210	ug/l																																																									

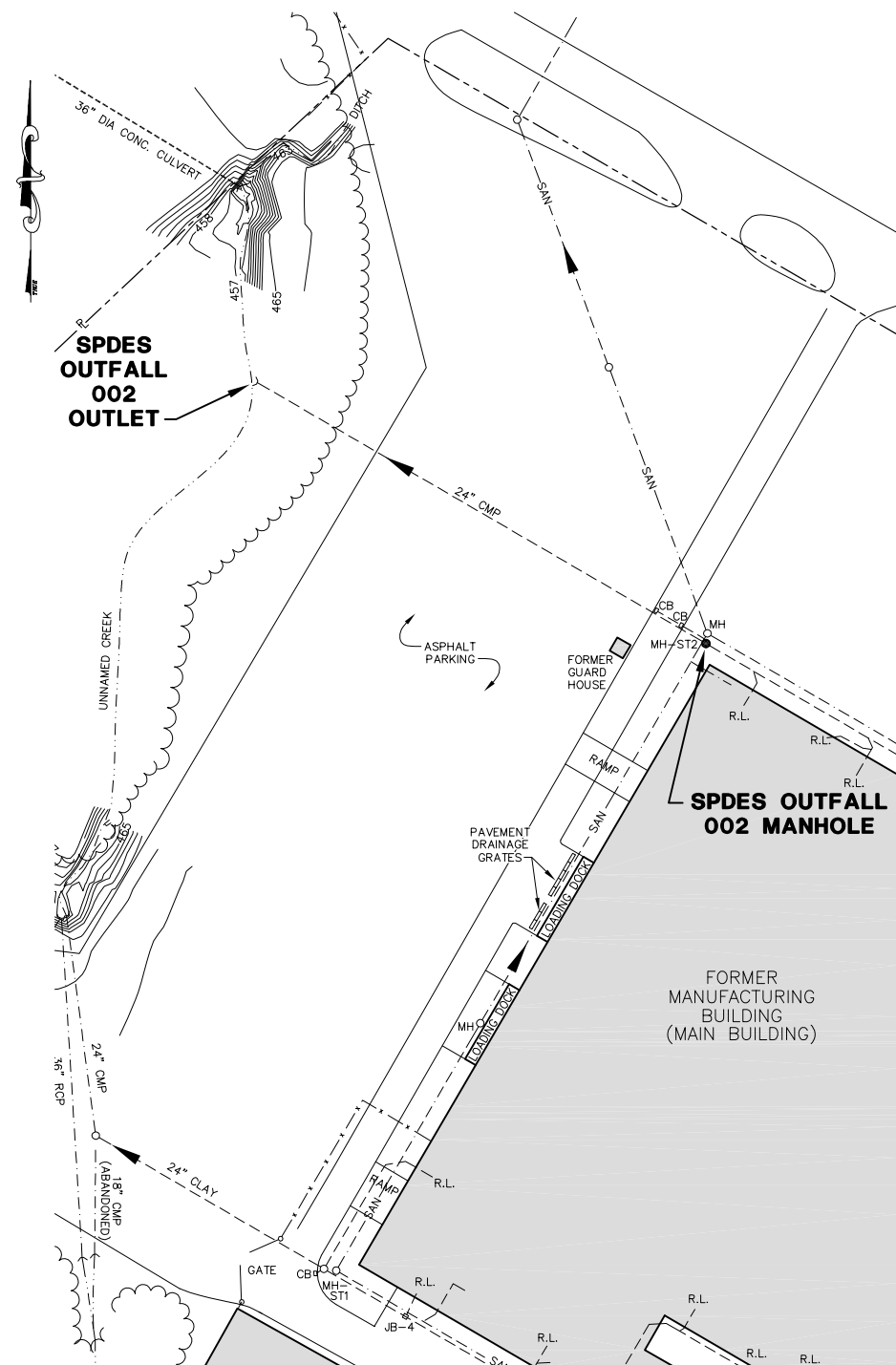
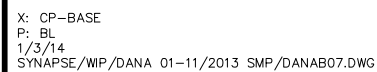
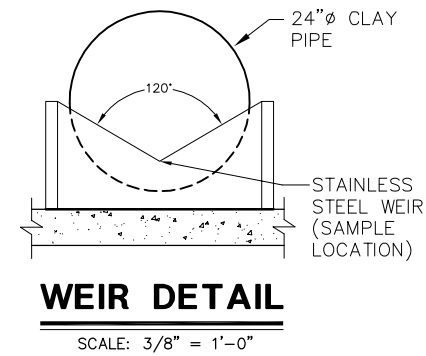
SPDES Outfall 002																											
Flow Rate	Monitor	gpd	2612	364	5672	47168	3247	364	5672	4773	844	844	364	2612	6665	3996	1582	101	37	101	364	2314	844	844	1582	3966	3247
Temperature	90	°F	43	44	44	40	38	40	47	47	51	56	68	70	66	68	67	68	69	66	63	51	63	52	51	52	51
pH	6.0-9.0	SU	7.5	8.3	7.8	7.7	7.8	7.5	8.2	7.5	7.5	7.4	7.8	7.6	7.9	7.5	7.7	7.6	7.9	7.3	7.8	7.2	7.7	7.4	7.6	7.7	7.85
Solids, Total Suspended	10 (dry)	mg/l	49	44	13	<5	12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	32	NS	NS	NS	NS	NS	<5	
	50 (wet)																										
Oil & Grease	15	mg/l		7	<5		<4			<4		<4		<4	<5		<4			<4			NS			<4	
Phenolics, Total	24	ug/l		<10	<10		20			<20		10		<10	<10		<10			2			NS			<10	
Fluoride, Total	1500	ug/l																									

SPDES Outfall 003																																																				
Flow Rate	Monitor	gpd	37800	151200	37800	302400	60480	43200	75600	100800	30240	25200	20160	33600	100800	5040	7560	5040	5040	43200	33600	30240	25200	10080	30240	15549	43200																									
Temperature	90	°F	35	41	35	37	41	37	45	52	53	65	66	72	70	82	79	66	71	67	58	49	49	49	50	36	36																									
pH	6.0-9.0	SU	7.8	7	7.8	7.8	7.3	7.7	7.6	7.4	7.9	7.7	7.7	7.8	8.2	7.9	7.3	7.4	7.5	7.8	7.6	7.3	7.4	7.8	7.9	7.3	7.71																									
Solids, Total Suspended	10 (dry)	mg/l	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<4	<5																									
	50 (wet)																																																			
Chlorine, Total Residual	100	ug/l	NA	NA	NA	NA	na	na	NA	NA	NA	NA	NA	na	na	na	na	na	ns	na	na	NA	NA	NS	NA	NA	NA																									
cis-1,2-Dichloroethylene	10	ug/l	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1																									
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1																									
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1																									
Vinyl Chloride	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1																									
Chloroform	46	ug/l	NA	NA	NA	NA	na	na	<1	<1	<1	<1	NA	NA	<1	<1	<1	<1	<1	<1	<1	NA	NA	<1	NA	NA	NA																									
Oil & Grease	15	mg/l		<5	<5		<4			<4		<4		<4	<4		<4			<4			<4		<4		<4																									
Phenolics, Total	44	ug/l		<10	20		<10			<20		10		<10	4		<10																																			
PCBs, Aroclors (Compliance)	300	ng/l			<50										<50					<50					<50			<10		<50		<50		<10		<10		<10		0.03												
PCBs, Congeners (1668A Study)	NA	pg/l			<60																																															
Lead, Total	10	ug/l																																																		
Zinc, Total	120	ug/l																																																		

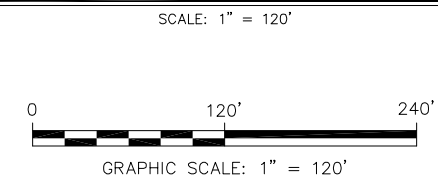
5.6 Figures

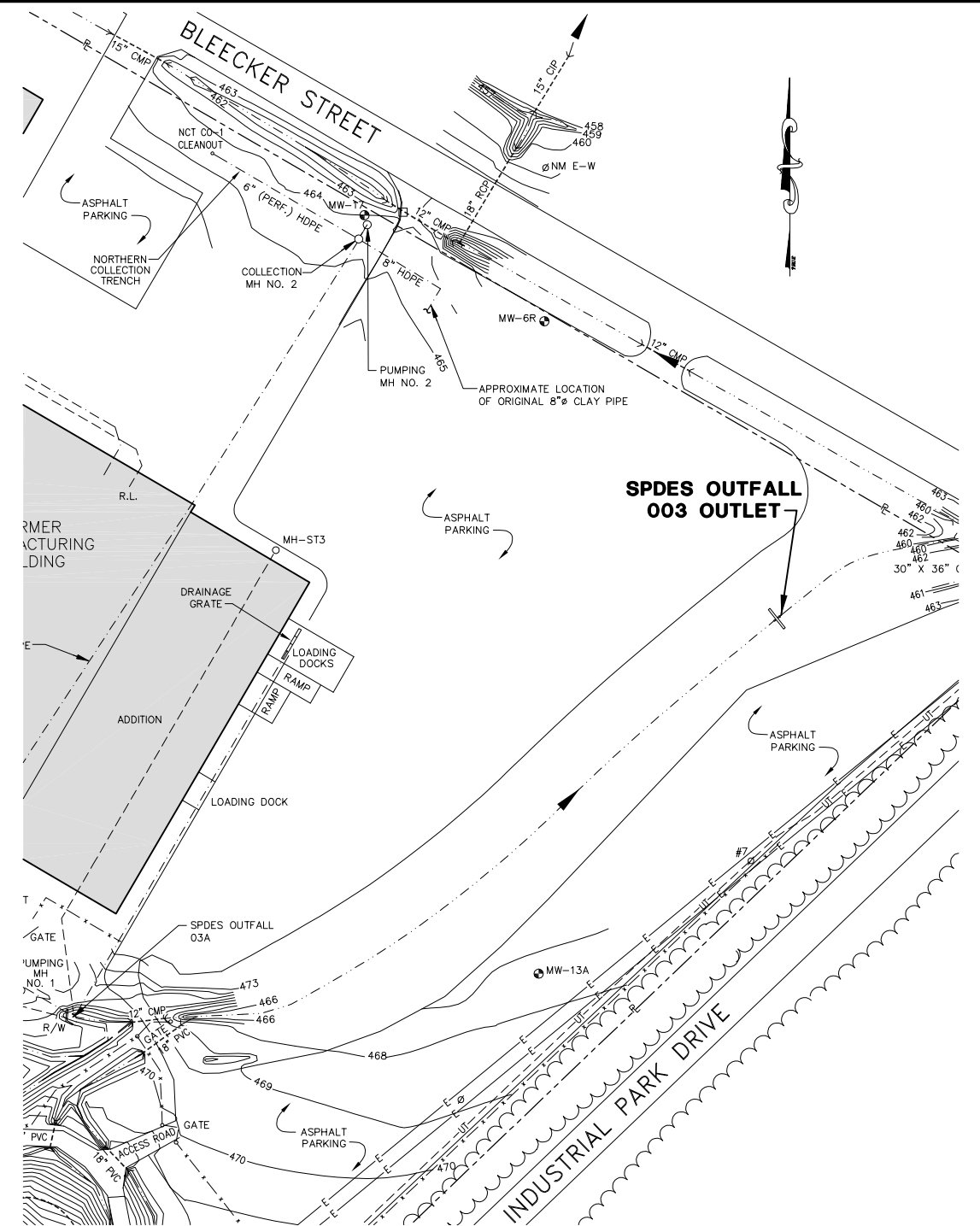
- 5-1 SPDES Outfall 001 Manhole Plan and Section
- 5-2 SPDES Outfall 002 Manhole Plan and Section
- 5-3 SPDES Outfall 003 Plan and Section
- 5-4 SPDES Outfall 03B Plan
- 5-5 Stormwater System Partial Plan





MANHOLE LOCATION PLAN

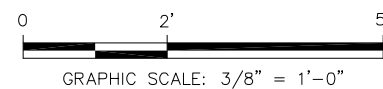


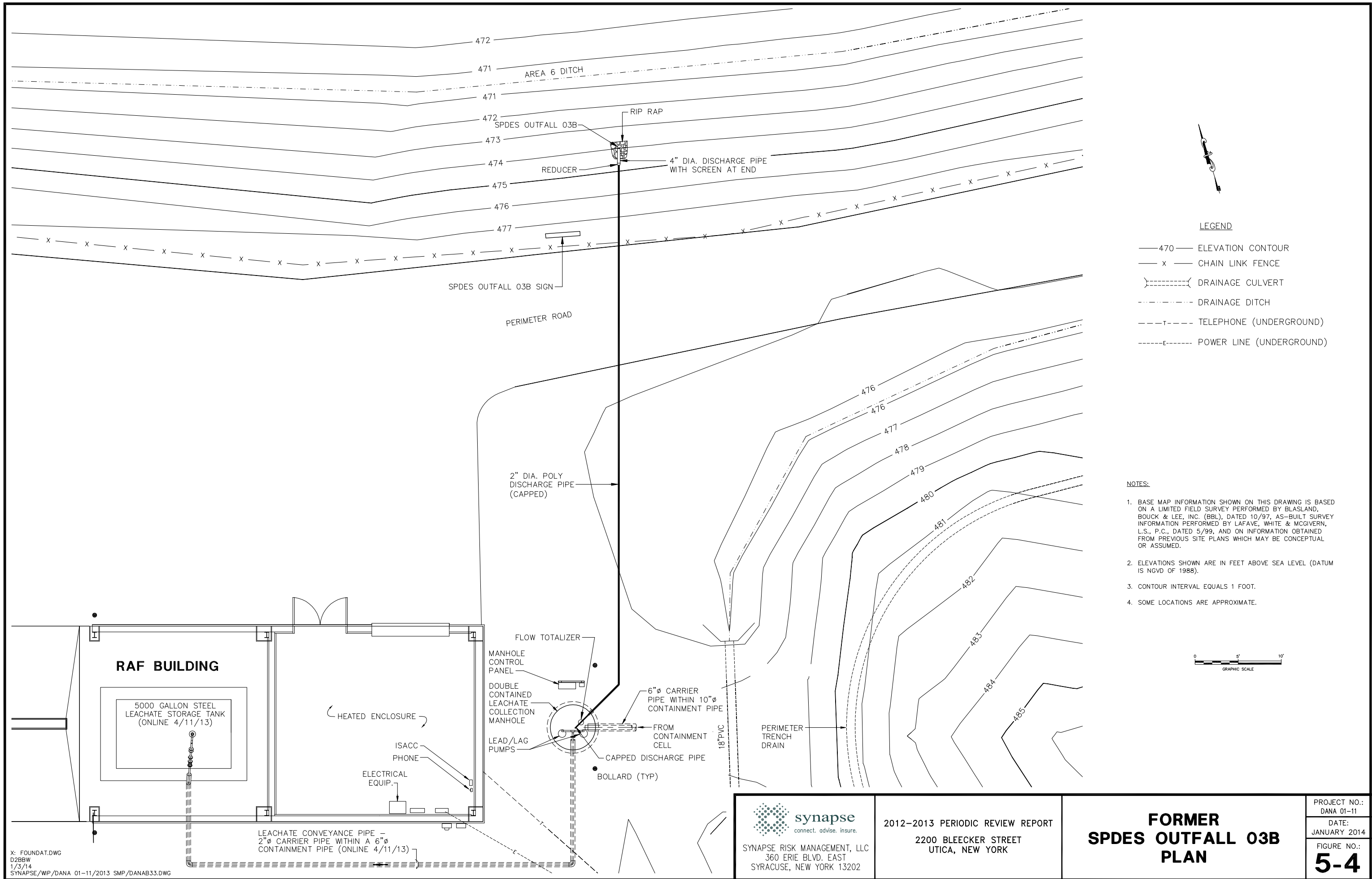


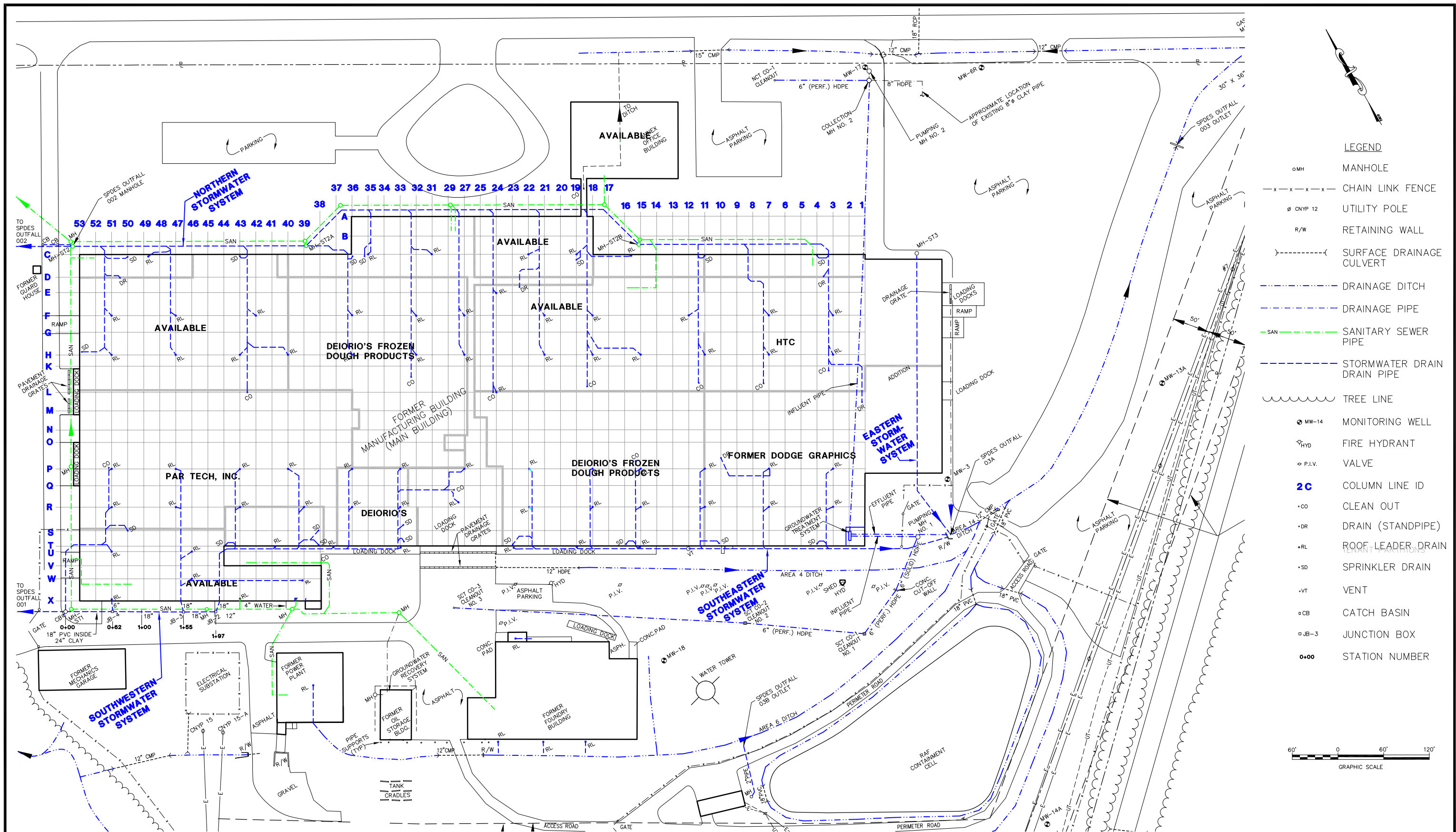
OUTLET LOCATION PLAN

0 120' 240'

GRAPHIC SCALE: 1" = 120'







X: CP-BASE
D2BBW
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB34.DWG



SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

STORMWATER SYSTEM PARTIAL PLAN

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014
FIGURE NO.:
5-5

6.0 ENGINEERING CONTROLS – OPERATION, MAINTENANCE AND MONITORING OF THE GROUNDWATER TREATMENT SYSTEM

6.1 INTRODUCTION

The groundwater treatment system (GTS) was originally constructed as an interim remedial measure (IRM) to address volatile organic compounds (VOCs) present in surface water and groundwater. The system became fully operational in March 1995 and currently is operating as designed, with the exception of items discussed in Section 6.4. As part of the selected Remedial Action (RA), the system was modified to collect and treat shallow groundwater in 1999.

The system was significantly upgraded in December 2006 in an effort to minimize system shutdowns and improve overall efficiency. Presently, the GTS consists of the northern collection trench (NCT), the southern collection trench (SCT), pumping manhole number 1 (MH-1) pumping manhole number 2 (MH-2), the piping system, an equalization tank, transfer pumps, a control system and an air stripper. The GTS has been operating for 18 years. CHA, on behalf of Chicago Pneumatic Tool Company (CPTC), has been conducting Operation, Maintenance and Monitoring (OM&M) of the GTS since October 1, 2008.

Between January 1, 2012 and December 31, 2013 operation of the air stripper, pumps, and appurtenances has been consistent and continuous. System maintenance and emergency responses are summarized in Section 6.5; in general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for minimal amount of time possible. The treatment system flow totalizers, as recorded on inspection reports, indicate that a total of approximately 5,910,576 gallons of water was pumped, treated, and released to Outfall 03A between January 1, 2012 and December 31, 2013, operating at 94.8% efficiency and removing approximately 70.8 pounds of VOCs. Of this total, approximately 2,573,282 gallons of water was pumped, treated, and released to Outfall 03A in 2012, operating at 92.6% efficiency and removing approximately 35.6 pounds of VOCs; and approximately 3,337,294 gallons of water was pumped, treated, and released to Outfall 03A in 2013, operating at 97.0% efficiency and removing approximately 35.2 pounds of VOCs. The increased efficiency seen during 2013 is likely attributed to maintenance activities associated with the GTS.

At this time, no changes to the Site Management Plan are recommended. Since concentrations of representative water samples from both the SCT and the NCT are still above regulatory standards, the requirements for discontinuing site management have not been achieved and the GTS is required. Annual submissions of the Periodic Review Report (PRR) are recommended. Continued OM&M of this GTS is ongoing and also recommended.

6.2 SITE OVERVIEW

The treatment process includes removal of VOCs from influent water utilizing a low-profile air stripper detailed in the Air Stripper Plan Figure 6-2. The low-profile air stripper treats influent groundwater pumped from MH-1 and MH-2. The configuration at the manholes is detailed in Pumping Manhole Plans and Sections Figure 6-3. MH-1 currently receives groundwater from the SCT. MH-2 was constructed at the northern (down-gradient) extent of the property to collect effluent water from an existing clay pipe and groundwater from the NCT. The collection trenches were constructed as part of the RA at prescribed locations on the property to collect shallow groundwater. Groundwater is directed, via gravity feed, to the respective manholes where it is then pumped to the equalization tank and then through the air stripper.

MH-1 is equipped with one ½ horsepower (hp) pump and five bulb type control switches. MH-2 is equipped with two ¾ hp pumps arranged in lead/lag mode and five bulb type control switches. A second pump will be installed in MH-1 during 2014. It is important to note that the operation of only one pump has not impacted system operation. The pump controls are set, top to bottom in each manhole, as follows:

High level alarm;

Lag pump start;
Lead pump start;
Both pumps stop; and
Low level alarm, second off.

The main control panel for all pumps is located in the Main Building, adjacent to the air stripper. Groundwater is conveyed to the GTS area via a below grade containment piping system and single wall piping above grade. The GTS components inside the building are located within a designated room containing a locked separate entrance from the remaining portion of the Main Building.

After entering the treatment system area, groundwater flows to a 2,500-gallon equalization tank, which provides a more uniform flow into the air stripper and to a limited extent, allows solids to settle out prior to treatment. The equalization tank is equipped with four float switches, which monitor and initiate events for the system operation.

Two Gould's pumps are utilized to transfer water from the equalization tank to the air stripper. These pumps are rated for greater than 120 gallons per minute at 40 feet of head. An in-line strainer is installed on the influent to each of these pumps to deter solids from entering the pumps.

Groundwater is conveyed via the Gould's pumps from the equalization tank to one 100-micron bag filter followed by one 50-micron bag filter on the effluent side of the pumps to capture smaller particles. The filter housings are stainless steel construction, rated for a maximum pressure of 120 pounds per square inch (psi). The treatment system has a typical operating range of 15 to 35 psi. When bag filter pressures exceed 35 psi the air stripper feed pumps shut down and sends an automated alarm call-out signaling that the bag filters need to be replaced before operation is able to resume. After passing through the primary and secondary bag filters, groundwater enters the air stripper unit.

The low-profile air stripper is a four-tray ShallowTray® 31200 Series model, equipped with a 3-phase, 20 hp, 1,800 cubic feet per minute (CFM) blower and is reportedly capable of processing water from 6 gpm to 425 gpm. The original control panel system was designed and constructed by Northeast Environmental Systems and the panel was further upgraded in 2006.

All data is remotely accessible using EOS data management systems. Once per day, the EOS system transmits a record of the GTS operating conditions via facsimile to CHA's Syracuse office. The data is reviewed to determine whether the system is operating normally. In addition, the EOS system allows "real time" monitoring via computer, which is connected to the EOS system via a modem line. Real time monitoring of the GTS is generally conducted from one to multiple times per day depending on system demands and/or precipitation events. If the GTS is found to be in an alarm condition, an appropriate response is initiated.

The treated water from the low-profile air stripper discharges via gravity through an effluent pipe to SPDES Outfall 03A located at the upstream end of the eastern drainage ditch, formerly Area 14. The eastern drainage ditch is ultimately monitored as SPDES Outfall 003, prior to discharging off-site at the northern property boundary, as shown on Figure 6-1.

6.3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Air stripper influent and effluent samples are collected and analyzed for the required VOCs. The January 1, 2012 through December 31, 2013 Influent and Effluent Analytical Summary (Tables 2A and 2B) provides the analytical data for influent flow from MH-1 and MH-2 on a monthly basis, and the air stripper effluent on a

weekly basis. Tables 3A and 3B, the 2012 and 2013 Air Stripper Flow Summary, respectively, provide weekly and monthly average flows measured during sampling events.

The information presented in Tables 2A and 2B and Tables 3A and 3B was developed to assist in evaluating mass removal of VOCs by the GTS. Tables 4A and 4B, the 2012 and 2013 Air Stripper Mass Removal Summary, provides a monthly account of air stripper influent and effluent concentrations, VOCs removed, percent of VOCs removed, and total VOCs removed during the 12-month period from January 1, 2012 to December 31, 2012 and January 1, 2013 to December 31, 2013, respectively. As indicated, the average removal efficiency for 2012 was 92.6%, resulting in the removal of approximately 35.6 pounds of VOCs; and for 2013 was 97.0%, resulting in the removal of approximately 35.2 pounds of VOCs. The total average removal efficiency was 94.8%, resulting in the removal of approximately 70.8 pounds of VOCs between the dates January 1, 2012 and December 31, 2013.

6.4 MONITORING PLAN COMPLIANCE

The effluent from the air stripper, SPDES Outfall 03A, requires sampling and analysis, as well as flow measurements to document compliance with the NYSDEC SPDES Permit No. NY0108537. Monitoring activities are summarized below.

- Weekly monitoring of flow and pH.
- Weekly effluent sampling and analysis for:
 - o trichloroethylene (TCE);
 - o cis-1,2-dichloroethene (cis-1,2-DCE);
 - o trans-1,2-dichloroethene (trans-1,2-DCE); and
 - o vinyl chloride (VC).

Between January 1, 2012 and December 31, 2013, representative system and manhole samples were collected by CHA personnel, placed in appropriately labeled laboratory glassware, and delivered by the CHA sampling personnel to Test America Laboratories. Specifically these samples were collected from the SPDES Outfall 03A sampling port as well as MH1 influent and MH2 influent sampling ports. Results from weekly sampling events conducted between January 1, 2012 and December 31, 2013 are provided in Tables 5A and 5B, Summary of Outfall 03A Analytical Results. The analytical results are submitted by CHA, on behalf of Chicago Pneumatic, to the NYSDEC in the form of monthly Discharge Monitoring Reports (DMRs). Between January 1, 2012 and December 31, 2013, there were four excursions to the SPDES Permit effluent limits. These excursions occurred in 1) June 2012; 2) August 2012; 3) October 2012 and 4) May 2013. The NYSDEC was immediately notified of the excursions. There were no other permit excursions during 2012 and 2013. DMR's have been provided in Appendix G.

The system is also remotely monitored daily via the using EOS data management systems. Once per day, the EOS system transmits a record of the GTS operating conditions via facsimile to CHA's Syracuse office. The data is reviewed to determine whether the system is operating normally. In addition, the EOS system allows "real time" monitoring via computer, which is connected to the EOS system via a modem line. Beginning on January 30, 2012, CHA switched from a hard wired phone line to the use of a cellular air card for daily monitoring of the GTS. The system monitoring program is currently in full compliance with the Monitoring Plan.

6.4.1 Conclusions and Recommendations for Improvement

With the exception of the small disruption in daily monitoring on specified dates, the implemented monitoring fully complied with the system Monitoring Plan. Flow and pH were monitored on a weekly basis as well as effluent sampling and analysis for the listed VOCs. The monitoring plan is effective in meeting the objectives of the remedial program.

6.5 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The GTS is designed to operate continuously, 24 hours per day, 7 days a week. The manhole and equalization tank pumps operate, as needed, to direct and control water flow into the air stripper. Control floats normally activate the pumps in both manholes and the equalization tank. If the pump systems fail to control the water level, due to an extremely high volume entering the manhole, an alarm is activated. If daily monitoring of the GTS status facsimile transmittals and/or daily real-time monitoring note that the GTS is in an alarm condition, an appropriate response is initiated. Copies of the field logs, included in Appendix G, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from January 1, 2012 through December 31, 2013. A summary of scheduled and unscheduled maintenance events including system alarms, shutdowns and responses from January 1, 2012 through December 31, 2013 are presented in the table below. These shutdowns resulted in the GTS being shut down for a relatively short period of time (e.g., generally less than one (1) day).

Alarm Conditions and Maintenance Summary

January 1, 2012 – December 31, 2013

Date	Incident/Resolution
1/24/2012	System shutdown in preparation for the upgrade/replacement of the EOS system.
1/30/2012	CHA onsite with subcontractor Paragon Environmental for upgrade to EOS system. MH-1 and MH-2 High Level Alarms; system operating in alarm condition.
2/1/2012	MH-1, MH-2 and EQ Tank High Level Alarms caused system shutdown; CHA reset system to clear EQ Tank High Level Alarm. High Bag Filter Pressure Alarm while CHA onsite; CHA changed out bag filters until the system was operating as designed.
2/7/2012	MH-2 High Level Alarm; system operating in alarm condition. Minimal water flowing into EQ Tank.
2/14/2012	MH-2 High Level Alarm; system operating in alarm condition. Minimal water flowing into EQ Tank.
2/16/2012	System shut down to troubleshoot the minimal amount of water flowing into EQ Tank from MH-1 and MH-2. System operating as designed with the exception of MH-1 pumps shut down.
2/17/2012	MH-1 and MH-2 High Level Alarms; system operating in alarm condition. Flow rate into EQ Tank remains less than typical flow rates.
2/23/2012	MH-1 and MH-2 High Level Alarms and Air Stripper Low Pressure Alarm caused system shutdown; CHA reset system to clear Air Stripper Low Pressure Alarm. GTS began operating as designed.
2/28/2012	CHA remotely shutdown the system due to water on the GTS floor from the EQ Tank. Upon arrival, CHA noted MH-1, MH-2 and EQ Tank High Level Alarms and Air Stripper Low Pressure Alarm. CHA restarted the GTS and it was operating as designed.

Date	Incident/Resolution
3/7/2012	MH-2 High Level Alarm; system operating in alarm condition.
3/14/2012	MH-2 High Level Alarm. System shut down for maintenance. CHA onsite with subcontractor Paragon Environmental to clean pipes from MH-1 and MH-2 and inspect associated pumps. Removed both pumps from MH-1 for repair.
3/26/2012	System shut down for maintenance. CHA onsite with subcontractor Paragon Environmental to reinstall one of the repaired pumps. Installed one ¾ hp pump in MH-2 which was previously installed in MH-1 and installed one ½ hp pump in MH-1 which was previously installed in MH-2.
3/28/2012	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shutdown; CHA changed out bag filters until system was operating as designed.
4/3/2012	MH-2 High Level Alarm; system operating in alarm condition.
4/12/2012	MH-2 High Level Alarm; system operating in alarm condition.
4/19/2012	System shut down for maintenance. CHA onsite with subcontractor Paragon Environmental to install a second ¾ hp pump in MH-2.
4/20/2012	MH-2 High Level Alarm; system operating in alarm condition.
4/24/2012	System shut down for maintenance. CHA onsite with subcontractor Engler Electric to replace pump contactors. MH-2 High Level Alarm; system operating in alarm condition.
4/30/2012	MH-1, MH-2 and EQ Tank High Level Alarms caused system shutdown; CHA pumped EQ tank down manually and reset the GTS. MH-2 High Level Alarm; system operating in alarm condition.
5/9/2012	High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.
5/11/2012	System shut down for maintenance. Jet cleaned pipe from MH-2 to MH-2 cleanout. Removed water from MH-2 using a vacuum truck and placed directly into EQ tank. Hooked vacuum truck directly to MH-2 pipeline to suck out blockages. System operating as designed.
5/16/2012	MH-2 High Level Alarm; system operating in alarm condition.
5/23/2012	MH-2 High Level Alarm; system operating in alarm condition.
5/25/2012	CHA onsite with subcontractor Precision. System shut down for maintenance including jet cleaning lines and flow meter troubleshooting.
5/30/2012	MH-1, MH-2 and EQ Tank High Level Alarms and EQ Tank Low Level Alarm caused system shutdown; CHA reset GTS and manually pumped water into EQ tank (EQ Tank High Level Alarm not valid). CHA onsite with subcontractors Paragon Environmental and Engler Electric to troubleshoot MH-2 flow meter. MH-2 pumps not operating properly and removed for diagnosis and repair. System operating as designed with the exception of MH-2 which is offline.
6/1/2012	CHA onsite with subcontractor Paragon Environmental and Engler Electric to troubleshoot electrical lines associated with MH-2.
6/5/2012	CHA onsite with subcontractor Paragon Environmental and Engler Electric to troubleshoot electrical lines associated with MH-2.
6/7/2012	CHA shutdown GTS to tighten a leaking coupler. Upon restarting the GTS, MH-1 and MH-2 High Level Alarms were illuminated. GTS operated under alarm conditions until cleared.
6/15/2012	MH-1, MH-2 and EQ Tank High Level Alarms, Air Stripper Low Level Alarm and High Bag Filter Pressure Alarm caused system shutdown; CHA changed out bag filters and reset GTS. System was operating as designed.
6/18/2012	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA

Date	Incident/Resolution
	changed out bag filters and manually pumped down the EQ Tank and Floor Sump until the system was operating as designed.
6/20/2012	MH-1 and MH-2 High Level Alarms; system operated in alarm condition and cleared.
8/9/2012	Floor sump tripped and MH-1 and MH-2 High Level Alarms; reset floor sump and system operated in alarm condition.
10/3/2012	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms; manually pumped down the EQ Tank until system was operating as designed.
10/25/2012	CHA onsite with Paragon Environmental to clean air stripper and repair floor sump flow sensor.
10/29/2012	CHA onsite with Paragon Environmental to further clean the air stripper. MH-1 and MH-2 high level alarm. System operated under alarm conditions until cleared.
10/31/2012	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms; manually pumped down the EQ Tank and Floor Sump until system was operating as designed.
1/10/2013	CHA onsite with subcontractor Paragon Environmental to install new air intake for air stripper. CHA cleaned bag filter housing and floor sump.
1/16/2013	MH-1, MH-2 and EQ Tank High Level Alarms and High Bag Filter Pressure Alarm caused system shutdown; CHA changed out bag filters until system was operating as designed.
1/22/2013	MH-1, MH-2 and EQ Tank High Level Alarms and High Bag Filter Pressure Alarm caused system shutdown; CHA changed out bag filters and the system began operating as designed.
1/30/2013	MH-1, MH-2 and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters and the system began operating as designed.
2/6/2013	MH-1 and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters and the system began operating as designed.
3/7/2013	MH-1 and MH-2 High Level Alarms and EQ Tank Low Level Alarm caused system shutdown; CHA manually pumped from MH-1 and MH-2 until the system was operating as designed.
3/13/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms and MS Panel Overload caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and floor sump, reset the overload and the system began operating as designed.
3/20/2013	MH-1, EQ Tank and Floor Sump High Level Alarms and MS Panel Overload caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and Floor Sump, reset the overload and the system began operating as designed.
4/18/2013	MH-1 and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and the system began operating as designed.
5/9/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA manually pumped down the EQ Tank and Floor Sump until the system was operating as designed.
5/10/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA manually pumped down the EQ Tank and Floor Sump. System operated in MH-1 and MH-2 alarm conditions.
5/15/2013	MH-1, MH-2 and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters and the system began operating as designed.
5/30/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms and Air Stripper VFD fault alarm caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank

Date	Incident/Resolution
	and Floor Sump and the system began operating as designed.
6/13/2013	MH-1, MH-2 and Floor Sump High Level Alarms caused system shutdown; CHA manually pumped down the Floor Sump and changed out bag filters. System operated in MH-1 and MH-2 alarm conditions.
6/18/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and Floor Sump and the system began operating as designed.
6/28/2013	CHA onsite with Paragon Environmental to fix Floor Sump pump to alleviate High Level Alarms.
7/1/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and Floor Sump and the system began operating as designed.
7/3/2013	MH-1, MH-2 and Floor Sump High Level Alarms caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and Floor Sump. System operated in MH-1 and MH-2 alarm conditions.
8/20/2013	CHA onsite with Paragon Environmental to conduct routine maintenance of EQ Tank.
10/3/2013	MH-1, MH-2, EQ Tank and Floor Sump High Level Alarms caused system shutdown; CHA changed out bag filters, manually pumped down the EQ Tank and Floor Sump and the system began operating as designed.

The total volume of water pumped to the air stripper is measured by in-line flow meters that provide both instantaneous and total flow readings. These flow meters are located at the air stripper in the influent pipes from MH-1, MH-2, and the treatment area floor sump pump as shown in Figure 6-4. Between January 1, 2012 and December 31, 2013 approximately 3,337,294 gallons of water were pumped, treated, and discharged to Outfall 03A. The Manhole Flow Summary (Tables 1A and 1B) indicates the manhole flow meter readings recorded during weekly inspections and provides average monthly flows for both manholes, as well as total flow for the same period of 2012 and 2013. The GTS processed an average of 8,106 gpd between January 1, 2012 and December 31, 2013.

6.5.1 Conclusions and Recommendations for Improvement

The GTS has been operating for 18 years. Between January 1, 2012 and December 31, 2013 operation of the air stripper, pumps, and appurtenances has been consistent and for the most part continuous. In general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for the minimal amount of time possible. The O&M plan is effective in meeting the objectives of the remedial program.

6.6 OVERALL CONCLUSIONS AND RECOMMENDATIONS

At this time, no changes to the Site Management Plan are recommended. Requirements of the Monitoring Plan were met during the reporting period. Likewise, the requirements of the Operation and Maintenance Plan were also met during the reporting period.

Based upon evaluation of the GTS, the remedial objectives for the site are being met. As indicated above, the total average removal efficiency was 94.8%, resulting in the removal of approximately 70.8 pounds of

VOCs between the dates January 1, 2012 and December 31, 2013. The GTS is operating and performing as designed.

Since concentrations of water from both the SCT and the NCT are still above regulatory standards, the requirements for discontinuing site management have not been met and the GTS is still needed. Annual submissions of the PRR are recommended. Continued operation, maintenance, and monitoring of this GTS is ongoing and recommended.

6.7 Tables

- 6-1A 2012 Manhole Flow Summary
- 6-1B 2013 Manhole Flow Summary
- 6-2A 2012 Influent and Effluent Analytical Summary
- 6-2B 2013 Influent and Effluent Analytical Summary
- 6-3A 2012 Air Stripper Flow Summary
- 6-3B 2013 Air Stripper Flow Summary
- 6-4A 2012 Air Stripper Mass Removal Summary
- 6-4B 2013 Air Stripper Mass Removal Summary
- 6-5A 2012 Cumulative Summary of Outfall 03A Analytical Results
- 6-5B 2013 Cumulative Summary of Outfall 03A Analytical Results

6.8 Figures

- 6-1 Groundwater Treatment System Plan
- 6-2 Air Stripper Plan
- 6-3 Pumping Manhole Plans and Sections
- 6-4 Groundwater Treatment System As-Built Drawing

TABLE 6-1A
JANUARY 1, 2012 THROUGH DECEMBER 31, 2012 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
1/3/2012	5515275	7356109	6	5187	8337	13524
1/11/2012	5546297	7409539	8	3878	6679	10557
1/18/2012	5583330	7465890	7	5290	8050	13341
1/24/2012	5607558	7468841	6	4038	492	4530
Average Monthly Flow			27	4571	6028	10598

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
2/1/2012	5619208	7508660	8	1456	4977	6434
2/7/2012	5677705	7572483	6	9750	10637	20387
2/17/2012	5677745	7601117	10	4	2863	2867
2/23/2012	5677758	7602904	6	2	298	300
2/28/2012	5677768	7606971	5	2	813	815
Average Monthly Flow			35	2006	3947	5953

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
3/7/2012	5677768	7606971	8	0	0	0
3/14/2012	5677768	7606971	7	0	0	0
3/28/2012	5684960	7606971	14	514	0	514
Average Monthly Flow			29	248	0	248

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
4/3/2012	5707656	7606971	6	3783	0	3783
4/12/2012	5729639	7606971	9	2443	0	2443
4/20/2012	5745383	7606971	8	1968	0	1968
4/24/2012	5760191	7,606,971	4	3702	0	3702
4/30/2012	5763085	7606971	6	482	0	482
Average Monthly Flow			33	2367	0	2367

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
5/9/2012	5856259	7606971	9	10353	0	10353
5/16/2012	5904729	7616006	7	6924	1291	8215
5/23/2012	5930482	7624071	7	3679	1152	4831
5/30/2012	5951390	7628390	7	2987	617	3604
Average Monthly Flow			30	6277	714	6991

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
6/7/2012	5939057	7661730	8	3216	4168	7384
6/15/2012	5946740	7666804	8	960	634	1595
6/20/2012	5972313	7671217	5	5115	883	5997
6/25/2012	5983247	7671790	5	2187	115	2301
Average Monthly Flow			26	2689	1669	4358

TABLE 6-1A
JANUARY 1, 2012 THROUGH DECEMBER 31, 2012 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
7/3/2012	5997273	7725505	8	1753	6714	8468
7/11/2012	6008703	7759146	8	1429	4205	5634
7/19/2012	6017608	7790513	8	1113	3921	5034
7/25/2012	6022281	7807854	6	779	2890	3669
7/31/2012	6036398	7839597	6	2353	5291	7643
Average Monthly Flow			36	15340	4661	20001

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
8/9/2012	6047470	7864442	9	1230	2761	3991
8/16/2012	6064873	7888658	7	2486	3459	5946
8/21/2012	6072742	7910673	5	1574	4403	5977
8/29/2012	6084074	7943769	8	1417	4137	5554
Average Monthly Flow			29	1644	3592	5236

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
9/5/2012	6094513	7974977	7	1491	4458	5950
9/12/2012	6106561	8006401	7	1721	4489	6210
9/19/2012	6118279	8039528	7	1674	4732	6406
9/26/2012	6131677	8072521	7	1914	4713	6627
Average Monthly Flow			28	1700	4598	6298

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
10/3/2012	6140336	8089857	7	1237	2477	3714
10/9/2012	6158915	8090169	6	3097	52	3149
10/17/2012	6182579	8126668	8	2958	4562	7520
10/25/2012	6209770	8176866	8	3399	6275	9674
10/31/2012	6209772	8222650	6	0	7631	7631
Average Monthly Flow			35	2231	4289	6521

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
11/7/2012	6223087	8235942	7	1902	1899	3801
11/14/2012	6238844	8329244	7	2251	13329	15580
11/20/2012	6253125	8405523	6	2380	12713	15093
11/27/2012	6267579	8500307	7	2065	13541	15605
Average Monthly Flow			27	2141	10284	12425

Monitoring Date	Flow Totalizer Reading		Days Between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
12/3/2012	6280864	8588438	6	2214	14689	16903
12/12/2012	6315497	8700173	9	3848	12415	16263
12/19/2012	6347650	8825635	7	4593	17923	22516
12/26/2012	6387561	8975964	7	5702	21476	27177
Average Monthly Flow			29	4137	16402	20539

TABLE 6-1A
JANUARY 1, 2012 THROUGH DECEMBER 31, 2012 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Summary of Manhole Flow for January 1, 2012 through December 31, 2012		
Total Flow	gal	gpd
MH-1	903,408	2482
MH-2	1,669,874	4588
Total 2012 Flow:	2,573,282	7069

Notes:

Average monthly manhole flow is based on daily average

TABLE 6-1B
JANUARY 1, 2013 THROUGH DECEMBER 31, 2013 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
1/3/2013	6427472	8942709	8	4989	6805	11794
1/10/2013	6449191	8984722	7	3103	6002	9105
1/16/2013	6455878	9002671	6	1115	2992	4106
1/22/2013	6467752	9002671	6	1979	0	1979
1/30/2013	6519971	9002671	8	6527	0	6527
Average Monthly Flow			35	3783	3269	7052

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
2/6/2013	6562244	9034918	7	6039	4607	10646
2/14/2013	6589070	9079050	8	3353	5517	8870
2/20/2013	6605913	9109898	6	2807	5141	7949
2/27/2013	6622743	9145391	7	2404	5070	7475
Average Monthly Flow			28	3670	5097	8768

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
3/7/2013	6624424	9144887	8	210	-63	147
3/12/2013	6663118	9147641	5	7739	551	8290
3/20/2013	6721679	9203110	8	7320	6934	14254
3/27/2013	6748608	9250869	7	3847	6823	10670
Average Monthly Flow			28	4495	3767	8262

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
4/3/2013	6773984	9293467	7	3625	6085	9711
4/10/2013	6794899	9333337	7	2988	5696	8684
4/17/2013	6844278	9372887	7	7054	5650	12704
4/25/2013	6882714	10543724	8	4805	7112	11917
Average Monthly Flow			29	4624	44581	49206

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
5/1/2013	6906568	9467287	6	3976	6251	10226
5/9/2013	6909085	9471286	8	315	500	815
5/15/2013	6938096	9471286	6	4835	0	4835
5/23/2013	6961095	9518818	8	2875	5942	8816
5/30/2013	6984852	9545555	7	3394	3820	7213
Average Monthly Flow			35	2918	3308	6226

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
6/6/2013	7020737	9595695	7	5126	7163	12289
6/13/2013	7027736	9599625	7	1000	561	1561
6/18/2013	7052251	9610843	5	4903	2244	7147
6/27/2013	7112552	9695110	9	6700	9363	16063
Average Monthly Flow			28	4561	5341	9902

TABLE 6-1B
JANUARY 1, 2013 THROUGH DECEMBER 31, 2013 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
7/1/2013	7150647	9731054	4	9524	8986	18510
7/10/2013	7246643	9834586	9	10666	11504	22170
7/17/2013	7274351	9892718	7	3958	8305	12263
7/24/2013	7295708	9,942,371	7	3051	7093	10144
7/30/2013	7313358	9984862	6	2942	7082	10024
Average Monthly Flow			33	28054	8780	36835

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
8/7/2013	7333763	10036766	8	2551	6488	9039
8/15/2013	7352585	10085497	8	2353	6091	8444
8/20/2013	7361775	10110281	5	1838	4957	6795
8/28/2013	7376233	10152364	8	1807	5260	7068
Average Monthly Flow			29	2168	5776	7944

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
9/4/2013	7393777	10192744	7	2506	5769	8275
9/10/2013	7393777	10192744	6	0	0	0
9/17/2013	7431998	10274548	7	5460	11686	17146
9/25/2013	7463073	10311703	8	3884	4644	8529
Average Monthly Flow			28	3101	5691	8792

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
10/3/2013	7467184	10355673	8	514	5496	6010
10/10/2013	7491135	10402400	7	3422	6675	10097
10/17/2013	7510424	10443905	7	2756	5929	8685
10/24/2013	7531736	10,484,616	7	3045	5816	8860
10/31/2013	7548394	10519033	7	2380	4917	7296
Average Monthly Flow			36	2370	5759	8129

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
11/7/2013	7567936	10557227	7	2792	5456	8248
11/14/2013	7592033	10598313	7	3442	5869	9312
11/20/2013	7609354	10630016	6	2887	5284	8171
11/26/2013	7638029	10674598	6	4779	7430	12210
Average Monthly Flow			26	3448	5983	9431

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
12/5/2013	7666703	10719180	9	3186	4954	8140
12/11/2013	7691700	10755919	6	4166	6123	10289
12/17/2013	7710184	10787484	6	3081	5261	8342
12/26/2013	7762558	10850565	9	5819	7009	12828
Average Monthly Flow			30	4151	5866	10017

TABLE 6-1B
JANUARY 1, 2013 THROUGH DECEMBER 31, 2013 MANHOLE FLOW SUMMARY

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Summary of Manhole Flow for January 1, 2013 through December 31, 2013		
Total Flow	gal	gpd
MH-1	1,374,997	3767
MH-2	1,962,297	5376
Total 2013 Flow:	3,337,294	9143

Notes:

Average monthly manhole flow is based on daily average

Table 6-2A
JANUARY 1, 2012 through DECEMBER 31, 2012 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					Monthly Average VOC's
	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	
Permit Limit											10	10	10	10		
1/3/2012	3.5	44	<5	1.4	53.9	<130	380	<130	1300	1940	<1	<1	<1	<1	4	
1/11/2012											<1	<1	<1	<1	4	
1/18/2012											<1	<1	<1	<1	4	
1/24/2012											<1	<1	<1	<1	4	4.0
2/1/2012	3.6	22	<5	1.5	32.1	<1	1600	6.9	6300	7907.9	<1	<1	<1	1	4	
2/7/2012											<1	1.3	<1	2	5.3	
2/17/2012											<1	<1.8	<1	2.3	6.1	
2/23/2012											<1	5.7	<1	1.3	9	
2/28/2012											<1	7.7	<1	0.76	10.46	7.0
3/7/2012	4.4	43	<5	1.3	53.7	0	0	0	0	0	<5	<5	<5	<5	20	
3/14/2012											<5	<5	<5	<5	20	
3/14/2012											<5	<5	<5	<5	20	
3/28/2012											<5	<5	<5	<5	20	20.0
4/3/2012	<5	53	<5	1.7	64.7	0	0	0	0	0	<5	<5	<5	<5	20	
4/12/2012											<5	<5	<5	<5	20	
4/20/2012											<5	<5	<5	<5	20	
4/24/2012											<5	<5	<5	<5	20	
4/30/2012											<5	3.1	<5	0.78	13.88	18.8
5/9/2012	2.9	21	<1	1.3	26.2	<1	790	<1	3300	4092	<5	<5	<5	<5	20	
5/16/2012											<5	<5	<5	<5	20	
5/23/2012											<5	<5	<5	0.91	15.91	
5/30/2012											<5	<5	<5	<5	20	19.0
6/7/2012	<5	44	<5	2	56	<5	760	<5	2500	3270	<5	1.4	<5	2.2	13.6	
6/15/2012											<5	47	<5	120	177	
6/20/2012											<5	6.2	<5	5.4	21.6	
6/25/2012											<5	2.7	<5	2	14.7	56.7
7/3/2012	6.4	65	<5	1.8	78.2	<50	470	<50	2300	2870	<5	<5	<5	<5	20	
7/11/2012											<5	<5	<5	<5	20	
7/19/2012											<5	<5	<5	<5	20	
7/25/2012											<5	<5	<5	<5	20	
7/31/2012											<5	<5	<5	<5	20	20.0
8/9/2012	24	67	<5	2.5	98.5	<200	770	<200	2600	3770	<5	<5	<5	<5	20	
8/16/2012											<5	<5	20	<5	35	
8/21/2012											<5	<5	<5	<5	20	
8/29/2012											<5	<5	<5	<5	20	23.8
9/5/2012	3.9	44	<5	1.6	54.5	<100	410	<100	1300	1910	<5	<5	<5	<5	20	

Table 6-2A
JANUARY 1, 2012 through DECEMBER 31, 2012 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					Monthly Average VOC's
	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	
9/12/2012											<5	<5	<5	<5	20	
9/19/2012											<5	<5	<5	<5	20	
9/26/2012											<5	<5	<5	<5	20	20.0
10/3/2012	20	28	<5	1.7	54.7	<50	160	<50	420	680	<5	18	0.76	22	45.76	
10/9/2012											<5	<5	<5	<5	20	
10/17/2012											<5	<5	<5	<5	20	
10/25/2012											<5	<5	<5	<5	20	
10/31/2012											<5	<5	<5	<5	20	25.2
11/7/2012	7.1	47	<5	1.1	60.2	<50	210	<50	660	970	<5	<5	<5	<5	20	
11/14/2012											<5	<5	<5	1	16	
11/20/2012											<5	<5	<5	<5	20	
11/27/2012											1	<5	<5	<5	16	18.0
12/3/2012	12	46	<5	1.4	64.4	<130	460	<130	1600	2320	<5	<5	<5	<5	20	
12/12/2012											<5	<5	<5	<5	20	
12/19/2012											<5	<5	<5	<5	20	
12/26/2012											<5	0.65	<5	0.9	11.55	17.9

Notes:

- 1) All values reported in micrograms per liter (ug/L), approximately equivalent to parts per billion (ppb).
- 2) VOCs = Volatile Organic Compounds.

Table 6-2B
JANUARY 1, 2013 through DECEMBER 31, 2013 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					Monthly Average VOC's
	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	
Permit Limit											10	10	10	10		
1/3/2013	3.1	42	<5	0.92	51.02	<20	170	<20	400	610	<5	1.9	<5	2.1	14	
1/10/2013											<5	<5	<5	<5	20	
1/16/2013											<5	1.6	<5	0.91	12.51	
1/22/2013											<5	<5	<5	1.6	16.6	
1/30/2013											<5	1.5	<5	1.1	12.6	15.1
2/6/2013	4	54	<5	2.5	65.5	<100	380	<100	1400	1980	<5	<5	<5	<5	20	
2/14/2013											<5	<5	<5	<5	20	
2/20/2013											<5	<5	<5	<5	20	
2/27/2013											<5	<5	<5	1.7	16.7	19.2
3/7/2013	3.4	13	<5	0.81	22.21	<50	0	<50	2900	3000	<5	<5	<5	<5	20	
3/12/2013											<5	2	<5	1.6	13.6	
3/20/2013											<5	1.8	<5	1.3	13.1	
3/27/2013											<5	<5	<5	<5	20	16.7
4/3/2013	5	31	5	0.98	41.98	10	130	10	130	280	<5	<5	<5	<5	20	
4/10/2013											<5	<5	<5	<5	20	
4/17/2013											<5	<5	<5	<5	20	
4/25/2013											<5	<5	<5	<5	20	20.0
5/1/2013	3.9	42	<5	1.6	52.5	<5	260	<5	650	920	<5	1.2	<5	0.61	11.81	
5/9/2013											<5	11	<5	12	33	
5/15/2013											<5	1.9	<5	1.2	13.1	
5/23/2013											<5	<5	<5	<5	20	
5/30/2013											<5	0.81	<5	<5	15.81	18.7
6/6/2013	3.7	42	<5	1.9	52.6	<5	360	<5	1100	1470	<5	1.1	<5	0.76	11.86	
6/13/2013											<5	<5	<5	<5	20	
6/18/2013											<5	1.1	<5	0.69	11.79	
6/27/2013											<5	2.2	<5	1.9	14.1	14.4
7/1/2013	9.4	16	<5	1.7	32.1	<250	1700	<250	4000	6200	<5	0.94	<5	<5	15.94	
7/10/2013											<5	<5	<5	1.1	16.1	
7/17/2013											<5	<5	<5	<5	20	
7/24/2013											<5	<5	<5	<5	20	
7/30/2013											<5	<5	<5	<5	20	18.4
8/7/2013	6.7	37	<5	2.2	50.9	<200	350	<200	1100	1850	<5	<5	<5	1	16	
8/15/2013											<5	<5	<5	<5	20	
8/20/2013											<5	<5	<5	<5	20	
8/28/2013											<5	<5	<5	<5	20	19.0
9/4/2013	5.8	31	<5	1.5	43.3	<100	160	<100	480	840	<5	<5	<5	<5	20	

Table 6-2B
JANUARY 1, 2013 through DECEMBER 31, 2013 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					Monthly Average VOC's
	<i>Vinyl Chloride</i>	<i>cis-1,2-Dichloroethene</i>	<i>trans-1,2-Dichloroethene</i>	<i>Trichloroethene</i>	<i>Total VOC's</i>	<i>Vinyl Chloride</i>	<i>cis-1,2-Dichloroethene</i>	<i>trans-1,2-Dichloroethene</i>	<i>Trichloroethene</i>	<i>Total VOC's</i>	<i>Vinyl Chloride</i>	<i>cis-1,2-Dichloroethene</i>	<i>trans-1,2-Dichloroethene</i>	<i>Trichloroethene</i>	<i>Total VOC's</i>	
9/10/2013											<5	<5	<5	<5	20	
9/17/2013											<5	<5	<5	<5	20	
9/25/2013											<5	<5	<5	<5	20	20.0
10/3/2013	26	42	<5	1.6	74.6	<100	320	<100	1200	1720	<5	<5	<5	<5	20	
10/10/2013											<5	<5	<5	<5	20	
10/17/2013											<5	<5	<5	<5	20	
10/24/2013											<5	<5	<5	<5	20	
10/31/2013											<5	<5	<5	<5	20	20.0
11/7/2013	5.1	42	<5	1.2	53.3	<50	170	<50	590	860	<5	<5	<5	<5	20	
11/14/2013											<5	<5	<5	<5	20	
11/20/2013											<5	<5	<5	<5	20	
11/26/2013											1	<5	<5	<5	16	19.0
12/5/2013	3.7	39	<5	1.3	49	<50	170	<50	560	830	<5	2.5	<5	1.6	14.1	
12/11/2013											<5	<5	<5	<5	20	
12/17/2013											<5	2.6	<5	2	14.6	
12/26/2013											<5	<5	<5	<5	20	17.2

Notes:

- 1) All values reported in micrograms per liter (ug/L), approximately equivalent to parts per billion (ppb).
- 2) VOCs = Volatile Organic Compounds.

TABLE 6-3A
2012 AIR STRIPPER FLOW SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/3/2012	13524
1/11/2012	10557
1/18/2012	13341
1/24/2012	4530
Average Monthly Flow (gpd) 10598	
2/1/2012	6434
2/7/2012	20387
2/17/2012	2867
2/23/2012	300
2/28/2012	815
Average Monthly Flow (gpd) 5953	
3/7/2012	0
3/14/2012	0
3/28/2012	514
Average Monthly Flow (gpd) 248	
4/3/2012	3783
4/12/2012	2443
4/20/2012	1968
4/24/2012	3702
4/30/2012	482
Average Monthly Flow (gpd) 2367	
5/9/2012	10353
5/16/2012	8215
5/23/2012	4831
5/30/2012	3604
Average Monthly Flow (gpd) 6991	
6/7/2012	7384
6/15/2012	1595
6/20/2012	5997
6/25/2012	2301
Average Monthly Flow (gpd) 4358	
7/3/2012	8468
7/11/2012	5634
7/19/2012	5034
7/25/2012	3669
7/31/2012	7643
Average Monthly Flow (gpd) 20001	

TABLE 6-3A
2012 AIR STRIPPER FLOW SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

8/9/2012	3991
8/16/2012	5946
8/21/2012	5977
8/29/2012	5554
Average Monthly Flow (gpd) 5236	
9/5/2012	5950
9/12/2012	6210
9/19/2012	6406
9/26/2012	6627
Average Monthly Flow (gpd) 6298	
10/3/2012	3714
10/9/2012	3149
10/17/2012	7520
10/25/2012	9674
10/31/2012	7631
Average Monthly Flow (gpd) 6521	
11/7/2012	3801
11/14/2012	15580
11/20/2012	15093
11/27/2012	15605
Average Monthly Flow (gpd) 12425	
12/3/2012	16903
12/12/2012	16263
12/19/2012	22516
12/26/2012	27177
Average Monthly Flow (gpd) 20539	

Note:

- 1) gpd = gallons per day.
- 2) Average flow data is calculated from data collected during site visits.
- 3) Total Air Stripper flow includes total flows of MH-1 and MH-2.

TABLE 6-3B
2013 AIR STRIPPER FLOW SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/3/2013	11794
1/10/2013	9105
1/16/2013	4106
1/22/2013	1979
1/30/2013	6527
Average Monthly Flow (gpd) 7052	
2/6/2013	10646
2/14/2013	8870
2/20/2013	7949
2/27/2013	7475
Average Monthly Flow (gpd) 8768	
3/7/2013	147
3/12/2013	8290
3/20/2013	14254
3/27/2013	10670
Average Monthly Flow (gpd) 8262	
4/3/2013	9711
4/10/2013	8684
4/17/2013	12704
4/25/2013	11917
Average Monthly Flow (gpd) 49206	
5/1/2013	10226
5/9/2013	815
5/15/2013	4835
5/23/2013	8816
5/30/2013	7213
Average Monthly Flow (gpd) 6226	
6/6/2013	12289
6/13/2013	1561
6/18/2013	7147
6/27/2013	16063
Average Monthly Flow (gpd) 9902	
7/1/2013	18510
7/10/2013	22170
7/17/2013	12263
7/24/2013	10144
7/30/2013	10024
Average Monthly Flow (gpd) 36835	

TABLE 6-3B
2013 AIR STRIPPER FLOW SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

8/7/2013	9039	
8/15/2013	8444	
8/20/2013	6795	
8/28/2013	7068	
Average Monthly Flow (gpd)		7944
9/4/2013	8275	
9/10/2013	0	
9/17/2013	17146	
9/25/2013	8529	
Average Monthly Flow (gpd)		8792
10/3/2013	6010	
10/10/2013	10097	
10/17/2013	8685	
10/24/2013	8860	
10/31/2013	7296	
Average Monthly Flow (gpd)		8129
11/7/2013	8248	
11/14/2013	9312	
11/20/2013	8171	
11/26/2013	12210	
Average Monthly Flow (gpd)		9431
12/5/2013	8140	
12/11/2013	10289	
12/17/2013	8342	
12/26/2013	12828	
Average Monthly Flow (gpd)		10017

Note:

- 1) gpd = gallons per day.
- 2) Average flow data is calculated from data collected during site visits.
- 3) Total Air Stripper flow includes total flows of MH-1 and MH-2.

TABLE 6-4A
JANUARY 1, 2012 - DECEMBER 31, 2012 AIR STRIPPER MASS REMOVAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Month	Air Stripper Influent - Average Monthly VOC¹ Concentration (µg/l)²	Air Stripper Effluent - Average Monthly VOC Concentration⁵ (µg/l)	VOC's Removed (µg/l)	% VOC's Removed	Air Stripper Effluent - Average Monthly Flow (gpd)³	VOC's Removed (lbs)⁴
Jan	1127	4.00	1123	99.6	10598	2.7
Feb	5254	6.97	5247	99.9	5953	9.1
Mar	54	20.00	34	63.0	248	0.0
Apr	65	18.78	46	71.1	2367	0.0
May	441	18.98	422	95.7	6991	0.7
Jun	1287	56.73	1230	95.6	4358	1.2
Jul	729	20.00	709	97.3	20001	4.3
Aug	2617	23.75	2593	99.1	5236	3.3
Sep	1409	20.00	1389	98.6	6298	2.0
Oct	466	25.15	441	94.6	6521	0.8
Nov	813	18.00	795	97.8	12425	2.2
Dec	1866	17.89	1848	99.0	20539	9.2
2012 Average (%) ⁶ :				92.6	2012 Total (lbs):	35.6

Notes:

1) VOCs = volatile organic compounds

2) ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb)

3) gpd = gallons per day

4) lbs = pounds

5) Test America Laboratories typical reporting limit equals 5.0 ug/L or 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of 5.0 ug/L or 1.0 ug/L, respectively.

6) 2012 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-4B
JANUARY 1, 2013 - DECEMBER 31, 2013 AIR STRIPPER MASS REMOVAL SUMMARY

2012/2013 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Month	Air Stripper Influent - Average Monthly VOC¹ Concentration (µg/l)²	Air Stripper Effluent - Average Monthly VOC Concentration⁵ (µg/l)	VOC's Removed (µg/l)	% VOC's Removed	Air Stripper Effluent - Average Monthly Flow (gpd)³	VOC's Removed (lbs)⁴
Jan	310	15.14	295	95.1	7052	0.6
Feb	1179	19.18	1160	98.4	8768	2.4
Mar	1380	16.68	1363	98.8	8262	2.6
Apr	258	20.00	238	92.2	49206	2.8
May	513	18.74	494	96.3	6226	0.9
Jun	817	14.44	803	98.2	9902	1.9
Jul	1502	18.41	1484	98.8	36835	15.0
Aug	1359	19.00	1340	98.6	7944	2.6
Sep	559	20.00	539	96.4	8792	1.1
Oct	1240	20.00	1220	98.4	8129	3.0
Nov	565	19.00	546	96.6	9431	1.1
Dec	506	17.18	489	96.6	10017	1.2
2013 Average (%) ⁶ :				97.0	2013 Total (lbs):	35.2

Notes:

1) VOCs = volatile organic compounds

2) ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb)

3) gpd = gallons per day

4) lbs = pounds

5) Test America Laboratories typical reporting limit equals 5.0 ug/L or 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of 5.0 ug/L or 1.0 ug/L, respectively.

6) 2012 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-5A
JANUARY 1, 2012 through DECEMBER 31 2012 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
1/3/2012	<1	<1	<1	<1	13524	8.2
1/11/2012	<1	<1	<1	<1	10557	8.48
1/18/2012	<1	<1	<1	<1	13341	8.35
1/24/2012	<1	<1	<1	<1	4530	8.29
2/1/2012	<1	<1	1	<1	6434	8.02
2/7/2012	1.3	<1	2	<1	20387	7.32
2/17/2012	<1.8	<1	2.3	<1	2867	8.29
2/23/2012	5.7	<1	1.3	<1	300	8.25
2/28/2012	7.7	<1	0.76	<1	815	8.29
3/7/2012	<5	<5	<5	<5	0	7.39
3/14/2012	<5	<5	<5	<5	0	8.36
3/28/2012	<5	<5	<5	<5	514	8.3
4/3/2012	<5	<5	<5	<5	3783	8.54
4/12/2012	<5	<5	<5	<5	2443	7.47
4/20/2012	<5	<5	<5	<5	1968	8.44
4/24/2012	<5	<5	<5	<5	3702	8.37
4/30/2012	3.1	<5	0.78	<5	482	8.24
5/9/2012	<5	<5	<5	<5	10353	8.33
5/16/2012	<5	<5	<5	<5	8215	8.46
5/23/2012	<5	<5	0.91	<5	4831	8.4
5/30/2012	<5	<5	<5	<5	3604	8.33
6/7/2012	1.4	<5	2.2	<5	7384	8.36
6/15/2012	47	<5	120	<5	1595	8.16
6/20/2012	6.2	<5	5.4	<5	5997	8.35
6/25/2012	2.7	<5	2	<5	2301	8.32

TABLE 6-5A
JANUARY 1, 2012 through DECEMBER 31 2012 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
7/3/2012	<5	<5	<5	<5	8468	8.38
7/11/2012	<5	<5	<5	<5	5634	8.38
7/19/2012	<5	<5	<5	<5	3669	8.38
7/25/2012	<5	<5	<5	<5	7643	8.45
7/31/2012	<5	<5	<5	<5	7643	8.38
8/9/2012	<5	<5	<5	<5	3991	8.36
8/16/2012	<5	20	<5	<5	5946	8.44
8/21/2012	<5	<5	<5	<5	5977	7.36
8/29/2012	<5	<5	<5	<5	5554	8.52
9/5/2012	<5	<5	<5	<5	5950	8.4
9/12/2012	<5	<5	<5	<5	6210	8.42
9/19/2012	<5	<5	<5	<5	6406	8.4
9/26/2012	<5	<5	<5	<5	6627	8.48
10/3/2012	18	0.76	22	<5	3714	7.45
10/9/2012	<5	<5	<5	<5	3149	8.47
10/17/2012	<5	<5	<5	<5	9674	8.38
10/25/2012	<5	<5	<5	<5	7631	8.41
10/31/2012	<5	<5	<5	<5	7631	8.39
11/7/2012	<5	<5	<5	<5	3801	8.32
11/14/2012	<5	<5	1	<5	15580	7.29
11/20/2012	<5	<5	<5	<5	15093	7.61
11/27/2012	<5	<5	<5	1	15605	7.88
12/3/2012	<5	<5	<5	<5	16903	8.21
12/12/2012	<5	<5	<5	<5	16263	8.24
12/19/2012	<5	<5	<5	<5	22516	7.9

TABLE 6-5A
JANUARY 1, 2012 through DECEMBER 31 2012 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
12/26/2012	0.65	<5	0.9	<5	27177	7.84

Notes:

- 1) cis-1,2-DCE = cis-1,2-Dichloroethene
- 2) trans-1,2-DCE = trans-1,2-Dichloroethene
- 3) TCE = Trichloroethylene
- 4) VC = Vinyl Chloride
- 5) ug/L = micrograms per liter
- 6) gpd = gallons per day

TABLE 6-5B
JANUARY 1, 2013 through DECEMBER 31 2013 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
1/3/2013	1.9	<5	2.1	<5	11794	7.6
1/10/2013	<5	<5	<5	<5	9105	7.75
1/16/2013	1.6	<5	0.91	<5	4106	8.16
1/22/2013	<5	<5	1.6	<5	1979	8.09
1/30/2013	1.5	<5	1.1	<5	6527	8.24
2/6/2013	<5	<5	<5	<5	10646	8.52
2/14/2013	<5	<5	<5	<5	8870	8.24
2/20/2013	<5	<5	<5	<5	7949	7.25
2/27/2013	<5	<5	1.7	<5	7475	7.5
3/7/2013	<5	<5	<5	<5	147	7.85
3/12/2013	2	<5	1.6	<5	8290	8.02
3/20/2013	1.8	<5	1.3	<5	14254	7.98
3/27/2013	<5	<5	<5	<5	10670	7.96
4/3/2013	<5	<5	<5	<5	9711	7.22
4/10/2013	<5	<5	<5	<5	8684	7.8
4/17/2013	<5	<5	<5	<5	12704	7.88
4/25/2013	<5	<5	<5	<5	11917	6.67
5/1/2013	1.2	<5	0.61	<5	10226	6.76
5/9/2013	11	<5	12	<5	815	6.4
5/15/2013	1.9	<5	1.2	<5	4835	7.35
5/23/2013	<5	<5	<5	<5	8816	7.32
5/30/2013	0.81	<5	<5	<5	7213	6.58
6/6/2013	1.1	<5	0.76	<5	12289	7.04
6/13/2013	<5	<5	<5	<5	1561	7.36
6/18/2013	1.1	<5	0.69	<5	7147	7.48

TABLE 6-5B
JANUARY 1, 2013 through DECEMBER 31 2013 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
6/27/2013	2.2	<5	1.9	<5	16063	7.7
7/1/2013	0.94	<5	<5	<5	18510	8.38
7/10/2013	<5	<5	1.1	<5	22170	7.88
7/17/2013	<5	<5	<5	<5	12263	8
7/30/2013	<5	<5	<5	<5	10024	7.8
8/7/2013	<5	<5	1	<5	9039	7.16
8/15/2013	<5	<5	<5	<5	8444	7.21
8/20/2013	<5	<5	<5	<5	6795	7.21
8/28/2013	<5	<5	<5	<5	7068	7.45
9/4/2013	<5	<5	<5	<5	8275	7.16
9/10/2013	<5	<5	<5	<5	0	7.48
9/17/2013	<5	<5	<5	<5	17146	7.7
9/25/2013	<5	<5	<5	<5	8529	7.68
10/3/2013	<5	<5	<5	<5	6010	6.68
10/10/2013	<5	<5	<5	<5	10097	7.33
10/17/2013	<5	<5	<5	<5	8685	7.18
10/31/2013	<5	<5	<5	<5	7296	7.41

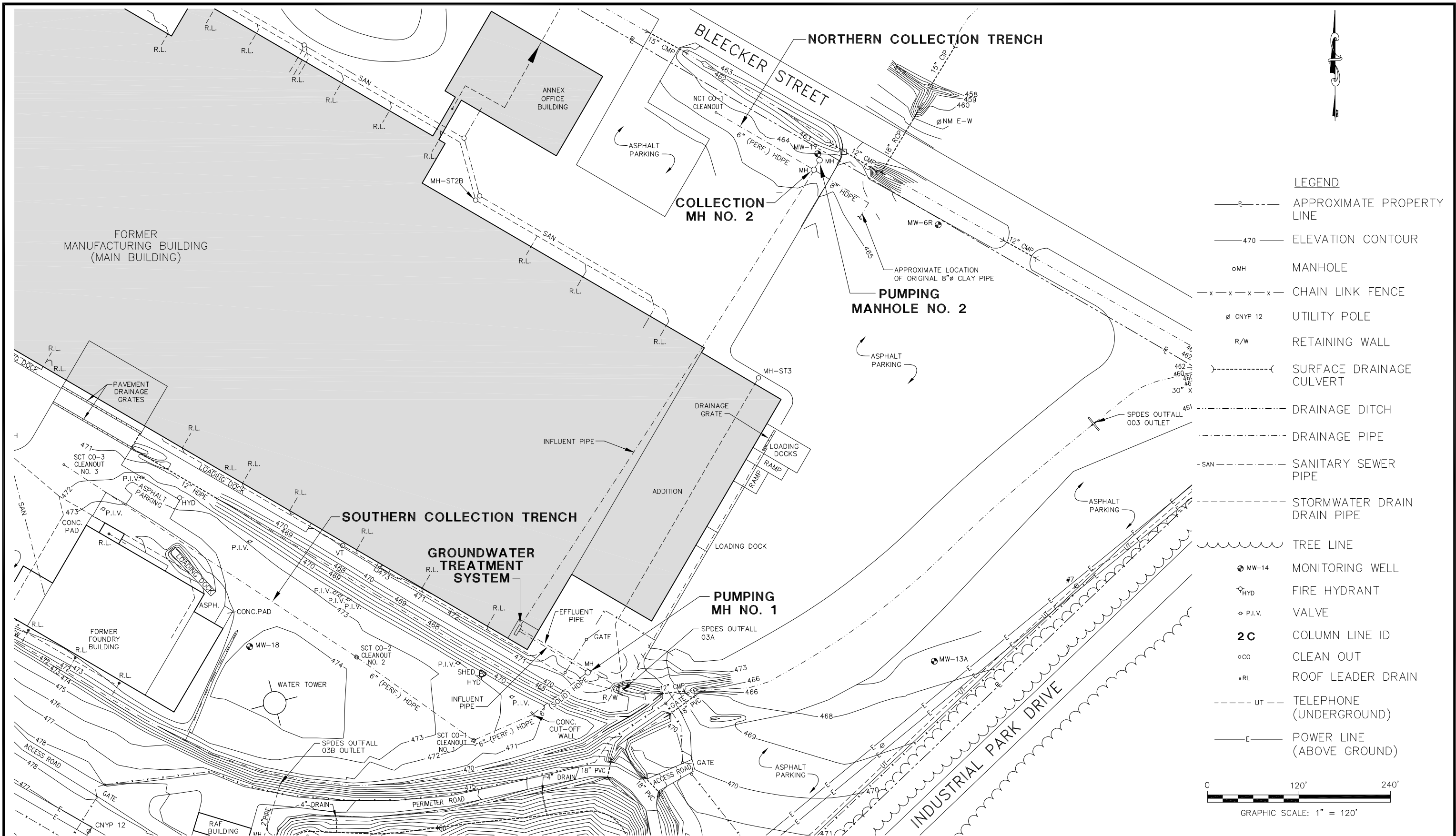
TABLE 6-5B
JANUARY 1, 2013 through DECEMBER 31 2013 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2012/2013 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
11/7/2013	<5	<5	<5	<5	8248	7.14
11/14/2013	<5	<5	<5	<5	9312	6.88
11/20/2013	<5	<5	<5	<5	8171	7.18
11/26/2013	<5	<5	<5	1	12210	6.9
12/5/2013	2.5	<5	1.6	<5	8140	6.67
12/11/2013	<5	<5	<5	<5	10289	7.38
12/17/2013	2.6	<5	2	<5	8342	7.01
12/26/2013	<5	<5	<5	<5	12828	7.23

Notes:

- 1) cis-1,2-DCE = cis-1,2-Dichloroethene
- 2) trans-1,2-DCE = trans-1,2-Dichloroethene
- 3) TCE = Trichloroethylene
- 4) VC = Vinyl Chloride
- 5) ug/L = micrograms per liter
- 6) gpd = gallons per day.



X: CP-BASE
D2BBW
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB0312.DWG



SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2012-2013 PERIODIC REVIEW REPORT

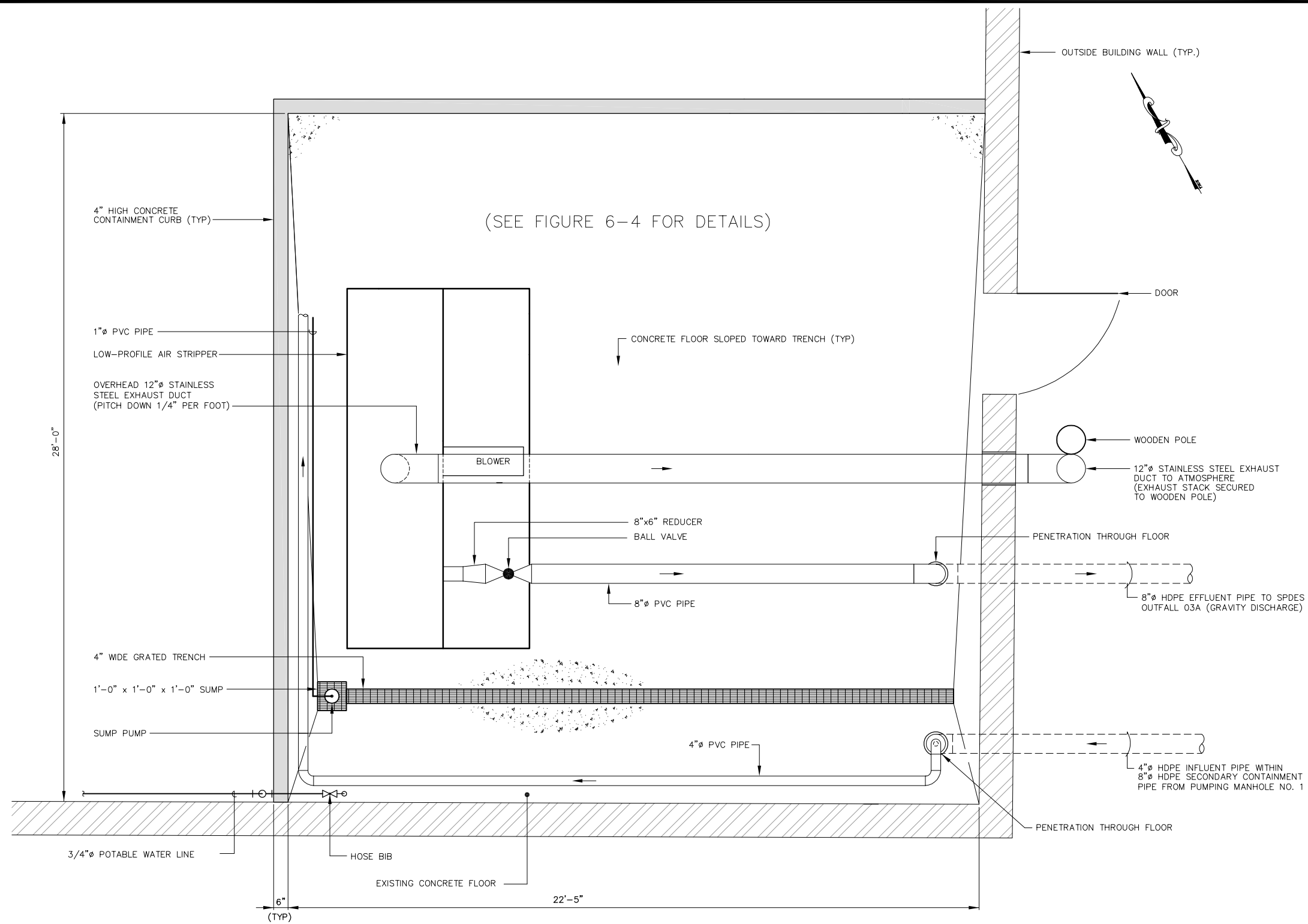
2200 BLEECKER STREET
UTICA, NEW YORK

**GROUNDWATER
TREATMENT SYSTEM
PLAN**

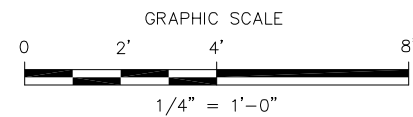
PROJECT NO.:
DANA 01-11

DATE:
JANUARY 2014

FIGURE NO.:
6-1



FLOOR PLAN
1/4" = 1'-0"



X: CP-BASE
P: BL
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB14.DWG



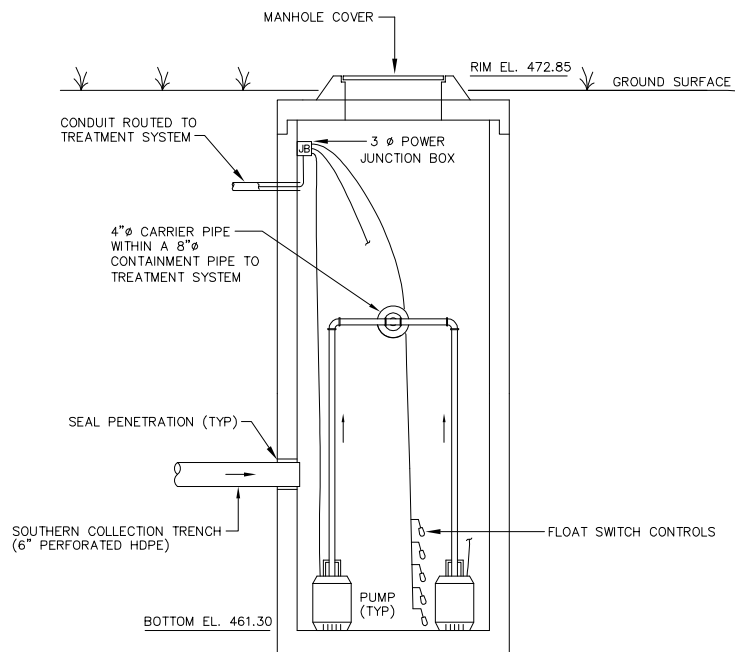
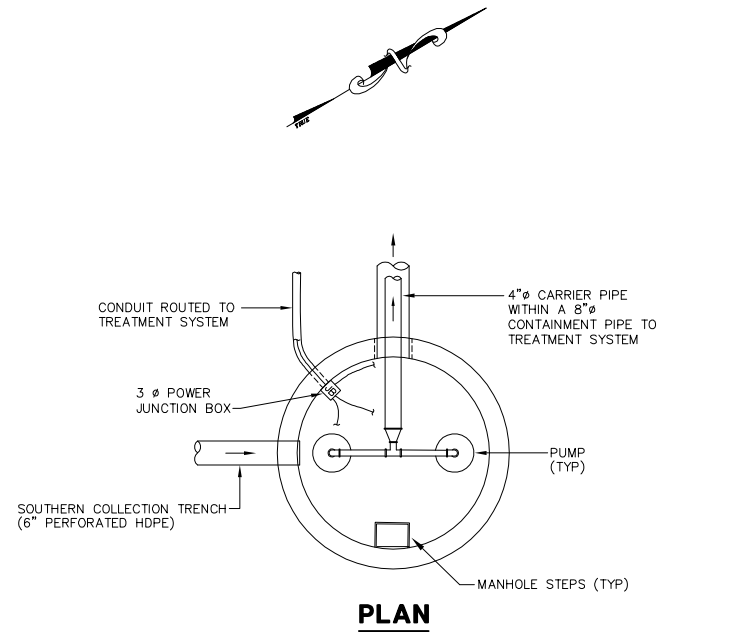
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

AIR STRIPPER PLAN

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014

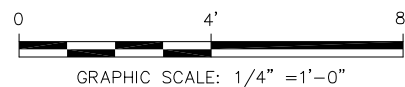
FIGURE NO.:
6-2



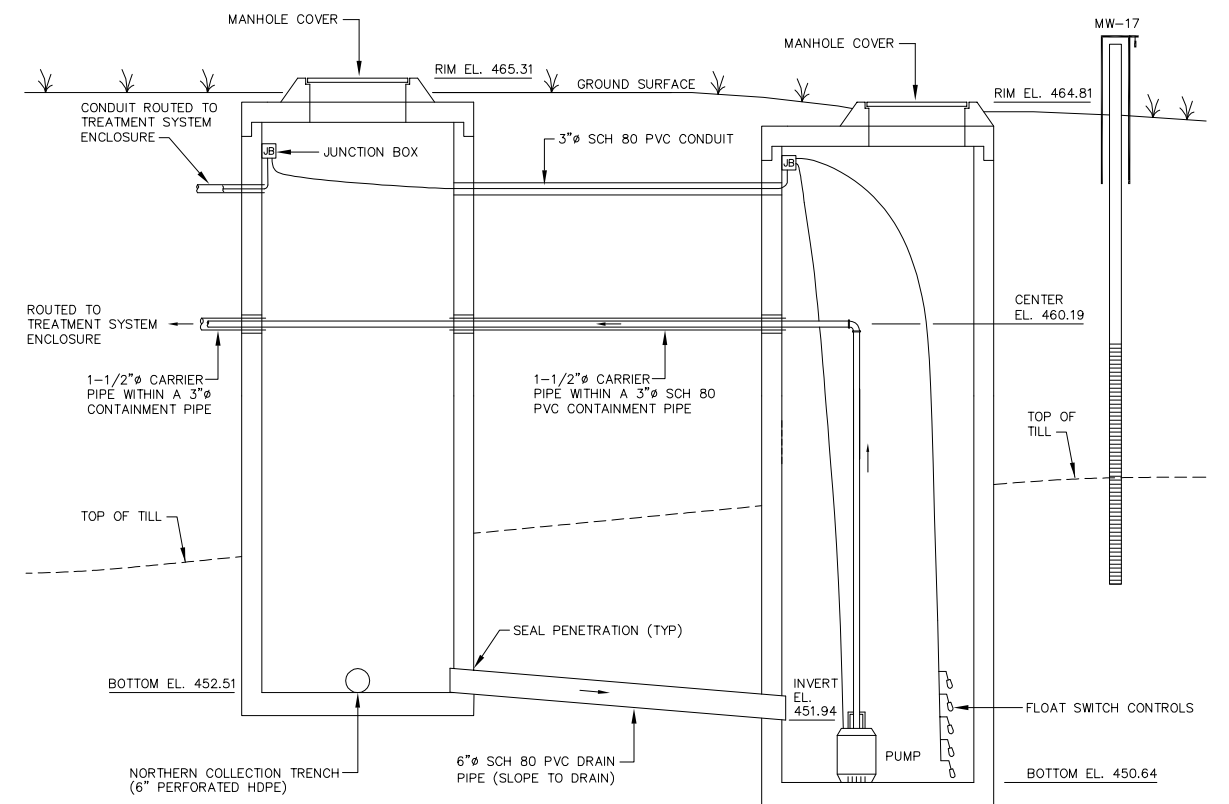
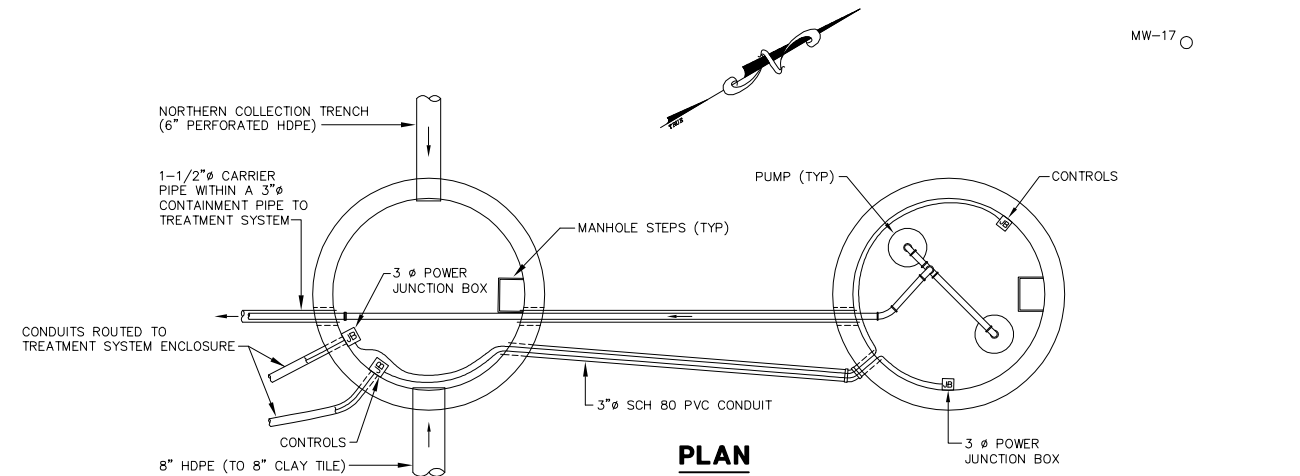
GENERAL SECTION

PUMPING MANHOLE NO. 1 PLAN AND SECTION

SCALE: 1/4" = 1'-0"



X: CP-BASE
P: BL
1/3/14
SYNAPSE/WP/DANA 01-11/2013 SMP/DANAB13.DWG



COLLECTION MANHOLE

PUMPING MANHOLE

GENERAL SECTION

PUMPING MANHOLE NO. 2 PLAN AND SECTION

SCALE: 1/4" = 1'-0"



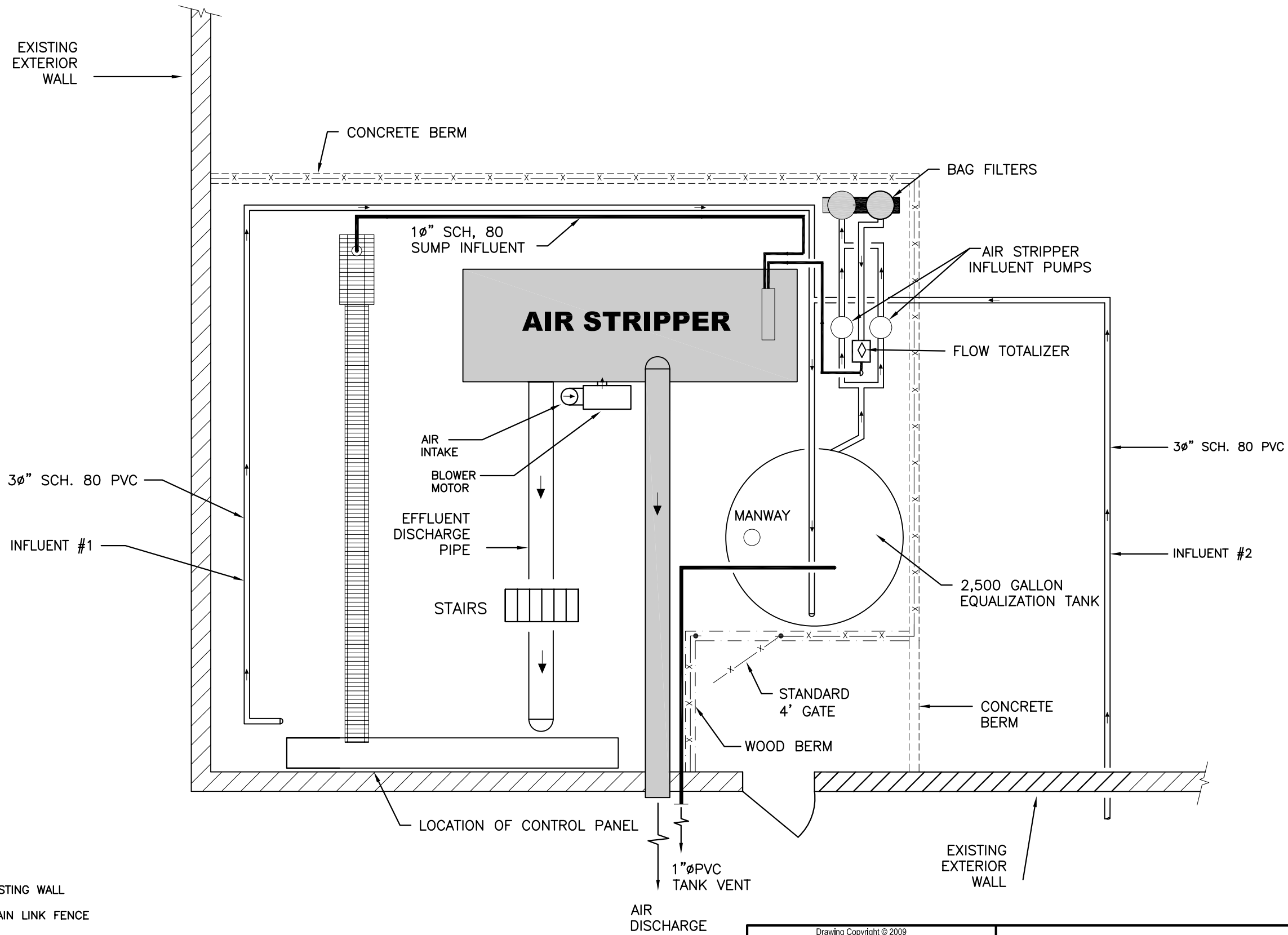
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2012-2013 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

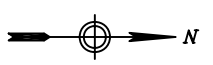
**PUMPING MANHOLE
PLANS AND SECTIONS**

PROJECT NO.:
DANA 01-11
DATE:
JANUARY 2014
FIGURE NO.:
6-3

File: I:\19247\REPORTS\CP ANNUAL REPORT 2008\2008_SYSTEM AS-BUILT-19247.DWG Saved: 3/2/2009 9:29:44 AM Plotted: 3/2/2009 9:36:24 AM User: Hollis, Tom



- LEGEND**
- EXISTING WALL
 - CHAIN LINK FENCE
 - CONCRETE BERM
 - WOOD BERM



PLAN VIEW
NOT TO SCALE

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CHA

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CHICAGO PNEUMATIC
UTICA, NEW YORK
GROUNDWATER TREATMENT SYSTEM
AS-BUILT DRAWING

PROJECT NO. 19247
DATE: 03/02/09
FIGURE 6-4

APPENDIX A
SITE INSPECTION REPORTS – FORM A & FORM A1

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 1/21/2012

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Snow Covered	✓
B	General Property Drainage	SPDES Outfall (001____ 002____ 003____)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	✓
B	Ditches	Snow Covered	✓
C	Culverts	No flow / ICE	✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows ____ Vegetation ____ Snow Covered	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ____ ppm, @ 20' ____ ppm, @ Vent ____ ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	Snow Covered	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.0</u> Pump 2 Hours <u>259.4</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or N) Light Bulbs ____	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Dr.p	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 1/4/2012

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>on</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>Not used</u>	<u>/</u>
A'	Flow Totalizer	Reading = <u>783</u> 00 gal. <u>Discharge = 2800 gallons</u>	<u>/</u>
B	Secondary Containment	Liquid (Y or <u>N</u>)	<u>/</u>
C	Piping Components		<u>/</u>
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	<u>/</u>
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	<u>/</u>

Additional Comments:

Discharge ~ 800 gallon to outfall 03B
New Reading: 79100

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 2/4/2012

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	<u>Snow Covered</u>	✓
B	General Property Drainage	SPDES Outfall (001 <u> </u> 002 <u> </u> 003 <u> </u>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Snow Covered</u>	✓
B	Ditches	<u>Snow Covered</u>	✓
C	Culverts	<u>No flow</u>	✓
D	Perimeter Fence	Gates <u> </u>	✓
E	Utilities	Elec. <u> </u> Phone <u> </u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u> </u> Vegetation <u> </u> <u>Snow Covered</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or <u>N</u>) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)	<u>No flow</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.1</u> Pump 2 Hours <u>259.4</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u> </u> Lag Pump <u> </u>	✓
B''	Test Automatic Pump Controls	LSHH <u> </u> , LSH <u> </u> , LSL <u> </u> , LSL <u> </u>	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>) Light Bulbs <u> </u>	✓
D	Manhole Interstitial Space	<u>Some Water → Pumped out</u>	✓
E	Conveyance Pipe	<u>drp</u>	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative:

Date:

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>/</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>)	<u>/</u>
A'	Flow Totalizer	Reading = <u>791</u> 00 gal.	<u>/</u>
B	Secondary Containment	Liquid (Y or <u>N</u>)	<u>/</u>
C	Piping Components		<u>/</u>
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	<u>/</u>
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	<u>/</u>

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 3/19/2012

Category	Inspected	Observation/Condition	
1 General Property			✓
A	General Property Access	<u>Good</u>	✓
B	General Property Drainage	SPDES Outfall (001 <u>✓</u> 002 <u>✓</u> 003 <u>✓</u>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	✓
B	Ditches	<u>Good</u>	✓
C	Culverts	<u>Good</u>	✓
D	Perimeter Fence	Gates <u>✓</u>	✓
E	Utilities	Elec. <u>✓</u> Phone <u>✓</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>2</u> Vegetation <u>Good</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	✓
C	Collection Pipe / Cleanout	<u>Drip</u>	✓
D	Perimeter Drains (4)	<u>Staked</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.0</u> Pump 2 Hours <u>220.1</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u> </u> Lag Pump <u> </u>	✓
B''	Test Automatic Pump Controls	LSHH <u> </u> , LSH <u> </u> , LSL <u> </u> , LSLL <u> </u>	✓
C	Electrical Components	Test Pumps (Y or N) <u> </u> , Light Bulbs <u> </u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe		✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
• NYSDEC SITE NO. 622003**

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ☒ , Vent ☒ , Heater ☒	
B	Electrical and Telephone	Elec ☒ Phone ☒	
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F)	
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N)	
A'	Flow Totalizer	Reading = <u>797</u> 00 gal.	
B	Secondary Containment	Liquid (Y or N)	
C	Piping Components		
D	Electrical Components	Lock ☐ Light Bulbs ☐	
E	Leachate Sampling	(Y or N) (see Form C)	

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**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 4/13/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Good	/
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	/
B	Ditches	Good	/
C	Culverts	Flow	/
D	Perimeter Fence	Gates <u>/</u>	/
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	/
3 Containment Cell			
A	Surface Cover System	Burrows <u>2</u> Vegetation <u>OK</u>	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or N) Background <u>/</u> ppm, @ 20' <u>/</u> ppm, @ Vent <u>/</u> ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)	Some Flow	/
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	/
B	Pumps and Plumbing	Pump 1 Hours <u>135.1</u> Pump 2 Hours <u>260.1</u>	/
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	/
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSLL <u>/</u>	/
C	Electrical Components	Test Pumps (Y or N) Light Bulbs <u>2</u>	/
D	Manhole Interstitial Space	No Entry	/
E	Conveyance Pipe	Drip	/
F	Influent Pipe	D	/
G	Confined Space Entry	(Y or N) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

R. Creighton

Date:

4/13/2012

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>/</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>offline</u>	<u>/</u>
A'	Flow Totalizer	Reading = <u>797</u> 00 gal.	<u>/</u>
B	Secondary Containment	Liquid (Y or <u>N</u>)	<u>/</u>
C	Piping Components		<u>/</u>
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	<u>/</u>
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	<u>/</u>

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 5/25/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	<u>Good</u>	/
B	General Property Drainage	SPDES Outfall (001 ___ 002 ___ 003 ___)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	/
B	Ditches	<u>Good</u>	/
C	Culverts	<u>Good</u>	/
D	Perimeter Fence	Gates <u>/</u>	/
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	/
3 Containment Cell			
A	Surface Cover System	Burrows <u>/</u> Vegetation <u>Good Grass</u>	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or <u>N</u>) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)	<u>NO Flow</u>	/
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	/
B	Pumps and Plumbing	Pump 1 Hours <u>35</u> , Pump 2 Hours <u>260</u>	/
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>/</u> Lag Pump <u>2</u>	/
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	/
C	Electrical Components	Test Pumps (Y or <u>N</u>), Light Bulbs <u>2</u>	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	<u>Drip</u>	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date:

R. Creighton

5/25/2012

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>/</u>	/
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	/
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	/
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>)	/
A'	Flow Totalizer	Reading = <u>71700</u> gal.	/
B	Secondary Containment	Liquid (Y or <u>N</u>)	/
C	Piping Components		/
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	/
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	/

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**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 6/22/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	<u>Good</u>	☒
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>) <u>Sampled</u>	☒
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	☒
B	Ditches	<u>Good</u>	☒
C	Culverts	<u>Slight Flow</u>	☒
D	Perimeter Fence	Gates <u>/</u>	☒
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	☒
3 Containment Cell			
A	Surface Cover System	Burrows <u>0</u> Vegetation <u>Good</u>	☒
B	Gas Vents (2)		☒
B'	PID Readings	(Y or <u>N</u>) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	☒
C	Collection Pipe / Cleanout		☒
D	Perimeter Drains (4)	<u>Needs Mowing</u>	☒
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	☒
B	Pumps and Plumbing	Pump 1 Hours <u>135.1</u> Pump 2 Hours <u>260.1</u>	☒
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	☒
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSLL <u>/</u>	☒
C	Electrical Components	Test Pumps (Y or <u>N</u>), Light Bulbs <u>1</u> <u>Change Bulbs Tank</u>	☒
D	Manhole Interstitial Space		☒
E	Conveyance Pipe	<u>Drip</u>	☒
F	Influent Pipe		☒
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	☒

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 6/22/2012

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>open</u> , Heater <u>off</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>off line</u>	<u>/</u>
A'	Flow Totalizer	Reading = <u>79700</u> gal.	<u>/</u>
B	Secondary Containment	Liquid (Y or <u>N</u>)	<u>/</u>
C	Piping Components		<u>/</u>
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	<u>/</u>
E	Leachate Sampling	(Y or <u>N</u>) (see Form C) <u>Sampled for outfall 03R</u> <u>Paramater 6/22/13/14:30</u>	<u>/</u>

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 7/6/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	GOOD	/
B	General Property Drainage	SPDES Outfall (001 ☒ 002 ☒ 003 ☒)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	GOOD	/
B	Ditches	Need Clearing	/
C	Culverts	GOOD	/
D	Perimeter Fence	Gates ☒	/
E	Utilities	Elec. ☒ Phone ☒	/
3 Containment Cell			
A	Surface Cover System	Burrows ☒ Vegetation ☒	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)	NO FLOW / clear	/
4 Leachate Collection Manhole			
A	Structure	External ☒ Internal ☒	/
B	Pumps and Plumbing	Pump 1 Hours <u>135.2</u> Pump 2 Hours <u>270</u>	/
B'	Pump Changeover	(Y or N) Lead Pump <u>off</u> Lag Pump <u>off</u>	/
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	/
C	Electrical Components	Test Pumps (Y or N), Light Bulbs <u>0</u>	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	Drip	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or N) (see Form B)	/

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 7/6/2012

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>open</u> , Heater <u>off</u>	✓
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	✓
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>off line</u>	
A'	Flow Totalizer	Reading = <u>797</u> 00 gal. <u>start</u> <u>Final</u> : <u>80300</u>	
B	Secondary Containment	Liquid (Y or <u>N</u>)	
C	Piping Components		
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	

Additional Comments:

Pump collector Man hole to outfall 03B
~ 600 gallons

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 8/17/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Good	/
B	General Property Drainage	SPDES Outfall (001 / 002 / 003 /) Flow	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Mowed	/
B	Ditches	Good	/
C	Culverts	Good	/
D	Perimeter Fence	Gates /	/
E	Utilities	Elec. / Phone /	/
3 Containment Cell			
A	Surface Cover System	Burrows / Vegetation /	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)		/
4 Leachate Collection Manhole			
A	Structure	External / Internal /	/
B	Pumps and Plumbing	Pump 1 Hours 135.2 Pump 2 Hours 260.3	/
B'	Pump Changeover	(Y or N) Lead Pump 135.2 Lag Pump 2 off	/
B''	Test Automatic Pump Controls	LSHH /, LSH /, LSL /, LSL /	/
C	Electrical Components	Test Pumps (Y or N) Light Bulbs /	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	Drip	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or N) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 8/17/2012

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u> / </u> , Vent <u> / </u> , Heater <u> / </u>	<u> / </u>
B	Electrical and Telephone	Elec <u> / </u> Phone <u> / </u>	<u> / </u>
C	Auto Dialer and Controls	Test Functions (Y or <u>(N)</u>) (see Form F)	<u> / </u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>(N)</u>) <u>Not in Service</u>	<u> / </u>
A'	Flow Totalizer	Reading = <u>803</u> 00 gal.	<u> / </u>
B	Secondary Containment	Liquid (Y or <u>(N)</u>)	<u> / </u>
C	Piping Components		<u> / </u>
D	Electrical Components	Lock <u> / </u> Light Bulbs <u> / </u>	<u> / </u>
E	Leachate Sampling	(Y or <u>(N)</u>) (see Form C)	<u> / </u>

Additional Comments:

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**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 9/26/2012

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	<u>Good</u>	✓
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>) <u>Sampled</u>	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	✓
B	Ditches	<u>Flow</u>	✓
C	Culverts		✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>1</u> Vegetation <u>/</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	✓
C	Collection Pipe / Cleanout	<u>Not Inspected</u>	✓
D	Perimeter Drains (4)	<u>Good</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.6</u> Pump 2 Hours <u>260.2</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs <u>1</u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	<u>Drp</u>	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 9/26/2012

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>✓</u> , Vent <u>✓</u> , Heater <u>✓</u>	✓
B	Electrical and Telephone	Elec <u>✓</u> Phone <u>✓</u>	✓
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>not used</u>	✓
A'	Flow Totalizer	Reading = <u>80300</u> gal.	✓
B	Secondary Containment	Liquid (Y or <u>N</u>)	✓
C	Piping Components		✓
D	Electrical Components	Lock <u>✓</u> Light Bulbs <u>✓</u>	✓
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	✓

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 10/24/2012

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 / 002 / 003 /)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Good	✓
C	Culverts	Clear	✓
D	Perimeter Fence	Gates /	✓
E	Utilities	Elec. / Phone /	✓
3 Containment Cell			
A	Surface Cover System	Burrows / Vegetation /	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or <u>N</u>) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External / Internal /	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.7</u> Pump 2 Hours <u>260.4</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump / Lag Pump /	✓
B''	Test Automatic Pump Controls	LSHH /, LSH /, LSL /, LSL /	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>) Light Bulbs /	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe		✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	✓

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 10/24/2012

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>off</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>)	
A'	Flow Totalizer	Reading = <u>80300</u> gal. Discharge <u>80906</u>	
B	Secondary Containment	Liquid (Y or <u>N</u>)	
C	Piping Components		
D	Electrical Components	Lock <u> </u> Light Bulbs <u> </u>	
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	

Additional Comments:

Discharge ~ 600 gallon to SPDES outfall-a3B

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 11/14/2012

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	<u>Good</u>	✓
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	✓
B	Ditches	<u>Good</u>	✓
C	Culverts	<u>Good</u>	✓
D	Perimeter Fence	Gates <u>1</u>	✓
E	Utilities	Elec. <u>1</u> Phone <u>1</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>0</u> Vegetation <u>OK</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)	<u>Flow</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u>1</u> Internal <u>1</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.7</u> Pump 2 Hours <u>260.4</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>1</u> , LSH <u>1</u> , LSL <u>1</u> , LSL <u>1</u>	✓
C	Electrical Components	Test Pumps (Y or N) Light Bulbs ___	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	<u>DR+P</u>	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓



**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton / P. Fisher Date: 12/22/2012

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Snow Covered	/
B	General Property Drainage	SPDES Outfall (001 ☒ 002 ☒ 003 ☒)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	/
B	Ditches	Snow Covered	/
C	Culverts	No Flow	/
D	Perimeter Fence	Gates ☒	/
E	Utilities	Elec. ☒ Phone ☒	/
3 Containment Cell			
A	Surface Cover System	Burrows _____ Vegetation _____ Snow Covered	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or ☒ N) Background _____ ppm, @ 20' _____ ppm, @ Vent _____ ppm	/
C	Collection Pipe / Cleanout	Not Inspected	/
D	Perimeter Drains (4)	No flow	/
4 Leachate Collection Manhole			
A	Structure	External ☒ Internal ☒	/
B	Pumps and Plumbing	Pump 1 Hours <u>135.6</u> Pump 2 Hours <u>260.9</u>	/
B'	Pump Changeover	(Y or ☒ N) Lead Pump ☒ Lag Pump ☒	/
B''	Test Automatic Pump Controls	LSHH ☒ LSH ☒ LSL ☒ LSLL ☒	/
C	Electrical Components	Test Pumps (Y or ☒ N), Light Bulbs _____	/
D	Manhole Interstitial Space	See Form F	/
E	Conveyance Pipe	On p	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or ☒ N) (see Form B)	/

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Creighton Fisher

Date: 12/22/2012

Category	Inspected	Observation/Condition	
5 Building			✓
A Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>/</u>		✓
B Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>		✓
C Auto Dialer and Controls	Test Functions (Y or N) (see Form F)		✓
6 Leachate Storage System			✓
A Tank (External)	Internal (Y or N) <u>(N)</u>		✓
A' Flow Totalizer	Reading = <u>80900</u> gal. <u>Not utilized</u>		✓
B Secondary Containment	Liquid (Y or N) <u>(N)</u>		✓
C Piping Components	<u>Not utilized</u>		✓
D Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>		✓
E Leachate Sampling	(Y or N) (see Form C)		✓

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 1/18/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Snow Covered	✓
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	✓
B	Ditches	Snow Covered	✓
C	Culverts	Snow Covered	✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>/</u> Vegetation <u>/</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or <u>N</u>) Background <u>/</u> ppm, @ 20' <u>/</u> ppm, @ Vent <u>/</u> ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	NO Flow	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.9</u> Pump 2 Hours <u>261.4</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>), Light Bulbs <u>/</u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Drip	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	✓



**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>✓</u> , Vent <u>✓</u> , Heater <u>OK</u>	✓
B	Electrical and Telephone	Elec <u>OK</u> Phone <u>OK</u>	✓
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>off line</u>	✓
A'	Flow Totalizer	Reading = <u>815</u> 00 gal.	✓
B	Secondary Containment	Liquid (Y or <u>N</u>)	✓
C	Piping Components		✓
D	Electrical Components	Lock <u>yes</u> Light Bulbs <u>1</u>	✓
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	✓

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery. There is no handwriting or other markings on the page.

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 2/15/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001____ 002____ 003____)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	ICE/Rain	✓
B	Ditches	Flow	✓
C	Culverts	Flow	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ____ Vegetation ____ Not Inspected	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or <u>N</u>) Background ____ ppm, @ 20' ____ ppm, @ Vent ____ ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	Some Flow	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.9</u> Pump 2 Hours <u>261.4</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH ✓ LSH ✓ LSL ✓ LSL ✓	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>) Light Bulbs ____	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Drip	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date: 2/15/2013

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>/</u> , Vent <u>/</u> , Heater <u>/</u>	<u>/</u>
B	Electrical and Telephone	Elec <u>/</u> Phone <u>/</u>	<u>/</u>
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	<u>/</u>
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>) <u>Not Utilized</u>	<u>/</u>
A'	Flow Totalizer	Reading = <u>815.00</u> gal.	<u>/</u>
B	Secondary Containment	Liquid (Y or <u>N</u>)	<u>/</u>
C	Piping Components		<u>/</u>
D	Electrical Components	Lock <u>/</u> Light Bulbs <u>/</u>	<u>/</u>
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	<u>/</u>

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 3/26/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 <u>✓</u> 002 <u>✓</u> 003 <u>✓</u>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Good	✓
C	Culverts	Flow	✓
D	Perimeter Fence	Gates <u>✓</u>	✓
E	Utilities	Elec. <u>✓</u> Phone <u>✓</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>1</u> Vegetation <u>Brown</u>	✓
B	Gas Vents (2)	Good	✓
B'	PID Readings	(Y or N) Background <u>✓</u> ppm, @ 20' <u>✓</u> ppm, @ Vent <u>✓</u> ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	flow	✓
4 Leachate Collection Manhole			
A	Structure	External <u>✓</u> Internal <u>✓</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>135.4</u> Pump 2 Hours <u>260.4</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>✓</u> , LSH <u>✓</u> , LSL <u>✓</u> , LSL <u>✓</u>	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs <u>1</u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Drip	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date:

R Creighton

3/26/2013

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 4/11/2013

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	South west Access Road Blocked	/
B	General Property Drainage	SPDES Outfall (001 ☒ 002 ☒ 003 ☒)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good East / Blocked by a car Southwest	/
B	Ditches	Good / some flow	/
C	Culverts	Good	/
D	Perimeter Fence	Gates ☒	/
E	Utilities	Elec. ☒ Phone ☒	/
3 Containment Cell			
A	Surface Cover System	Burrows ☒ Vegetation ☒	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or ☒ N) Background ☒ ppm, @ 20' ☒ ppm, @ Vent ☒ ppm	/
C	Collection Pipe / Cleanout	Not Inspected	/
D	Perimeter Drains (4)	some flow	/
4 Leachate Collection Manhole			
A	Structure	External ☒ Internal ☒	/
B	Pumps and Plumbing	Pump 1 Hours <u>36.1</u> Pump 2 Hours <u>26.2</u>	/
B'	Pump Changeover	(Y or ☒ N) Lead Pump <u>1</u> Lag Pump <u>2</u>	/
B''	Test Automatic Pump Controls	LSHH ☒ LSH ☒ LSL ☒ LSLL ☒	/
C	Electrical Components	Test Pumps (☒ Y or N), Light Bulbs <u>2</u>	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	Drif	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or ☒ N) (see Form B)	/

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 4/11/2013

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ☒ , Vent ☒ , Heater <u>on</u>	☒
B	Electrical and Telephone	Elec ☒ Phone ☒	☒
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	☒
6 Leachate Storage System			
A	Tank (External)	Internal <u>(Y or N)</u>	☒
A'	Flow Totalizer	Reading = <u>81500</u> gal.	☒
B	Secondary Containment	Liquid (Y or <u>N</u>)	☒
C	Piping Components		☒
D	Electrical Components	Lock ☒ Light Bulbs <u>1</u>	☒
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	☒

Additional Comments:

10:00hrs Onsite with Paragon Environmental Construction to eliminate SPDES Outfall-03B and reconnect the leachate collection manhole to discharge to the 5,000 gallon leachate tank.

14:00 Collection manhole reconnected / Outfall-03B offline & capped in the leachate collection manhole.

14:30 Transferred ~400 gallons from manhole to 5,000 gallon tank (flow totalizer = 81900).

[Signature]

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RCrighon

Date: 5/10/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	GOOD	✓
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	GOOD	✓
B	Ditches	Some Vegetation	✓
C	Culverts	Some Flow	✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>/</u> Vegetation <u>/</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background <u>/</u> ppm, @ 20' <u>/</u> ppm, @ Vent <u>/</u> ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	Some Flow	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>13.1</u> Pump 2 Hours <u>26.2</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or N) <u>/</u> Light Bulbs <u>/</u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Drip	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) <u>/</u> (see Form B)	✓

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 6/20/2013

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Good	/
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	/
B	Ditches	Good	/
C	Culverts	Clear	/
D	Perimeter Fence	Gates <u>/</u>	/
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	/
3 Containment Cell			
A	Surface Cover System	Burrows <u>1</u> Vegetation <u>/</u> Mowed	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or <u>N</u>) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)	No flow	/
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	/
B	Pumps and Plumbing	Pump 1 Hours <u>36.1</u> Pump 2 Hours <u>24.2</u>	/
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	/
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	/
C	Electrical Components	Test Pumps (Y or <u>N</u>), Light Bulbs <u>1</u>	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	Drip	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date: 6/20/2013

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 7/17/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	
B	General Property Drainage	SPDES Outfall (001 ☒ 002 ☒ 003 ☒ Sampled	
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	
B	Ditches	Good / Needs Mowing	
C	Culverts	Good / No Flow	
D	Perimeter Fence	Gates ☒	
E	Utilities	Elec. ☒ Phone ☒	
3 Containment Cell			
A	Surface Cover System	Burrows ☒ Vegetation ☒ Mowed	
B	Gas Vents (2)		
B'	PID Readings	(Y or ☒ N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
C	Collection Pipe / Cleanout	Not Inspected	
D	Perimeter Drains (4)	No Flow	
4 Leachate Collection Manhole			
A	Structure	External ☒ Internal ☒	
B	Pumps and Plumbing	Pump 1 Hours <u>136.1</u> Pump 2 Hours <u>221.1</u>	
B'	Pump Changeover	(Y or ☒ N) Lead Pump <u>1</u> Lag Pump <u>2</u>	
B''	Test Automatic Pump Controls	LSHH ☒ , LSH ☒ , LSL ☒ , LSLL ☒	
C	Electrical Components	Test Pumps (Y or ☒ N), Light Bulbs <u>1</u>	
D	Manhole Interstitial Space		
E	Conveyance Pipe		
F	Influent Pipe	Drip	
G	Confined Space Entry	(Y or ☒ N) (see Form B)	

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date: 7/17/2013

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 8/14/2013

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Good	/
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	/
B	Ditches	Good	/
C	Culverts	No Flow	/
D	Perimeter Fence	Gates___	/
E	Utilities	Elec. ☒ Phone ☒	/
3 Containment Cell			
A	Surface Cover System	Burrows <u>1</u> Vegetation <u>Good</u> Backfilled <u>vector</u> <u>one</u> <u>hole</u>	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or <u>N</u>) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	/
C	Collection Pipe / Cleanout	Not Inspected	/
D	Perimeter Drains (4)	Needs Clearing	/
4 Leachate Collection Manhole			
A	Structure	External ☒ Internal ☒	/
B	Pumps and Plumbing	Pump 1 Hours <u>136.2</u> Pump 2 Hours <u>222.1</u>	/
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	/
B''	Test Automatic Pump Controls	LSHH ☒ , LSH ☒ , LSL ___, LSL ☒	/
C	Electrical Components	Test Pumps (<u>Y</u> or N), Light Bulbs___	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe		/
F	Influent Pipe	Drip	/
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date:

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 9/24/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>) Sampled	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Mowed / Cleared	✓
C	Culverts	No flow	✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>0</u> Vegetation <u>Good</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background <u>0</u> ppm, @ 20' <u>0</u> ppm, @ Vent <u>0</u> ppm	✓
C	Collection Pipe / Cleanout	Not Inspected	✓
D	Perimeter Drains (4)	Clear / No flow	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>36.3</u> Pump 2 Hours <u>222.2</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or N) <u>0</u> , Light Bulbs <u>/</u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Drip	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) <u>0</u> (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date:

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 10/25/2013

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>) <u>Sampled 003 only</u>	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>Good</u>	✓
B	Ditches	<u>Good</u>	✓
C	Culverts	<u>Some flow</u>	✓
D	Perimeter Fence	Gates <u>/</u>	✓
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>0</u> Vegetation <u>Good</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or <u>N</u>) Background <u> </u> ppm, @ 20' <u> </u> ppm, @ Vent <u> </u> ppm	✓
C	Collection Pipe / Cleanout	<u>Not Inspected</u>	✓
D	Perimeter Drains (4)	<u>Clear / no flow observed</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u>/</u> Internal <u>/</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>13.5</u> Pump 2 Hours <u>222.2</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>/</u> , LSH <u>/</u> , LSL <u>/</u> , LSL <u>/</u>	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>) Light Bulbs <u> </u>	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	<u>Drip</u>	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or <u>N</u>) (see Form B)	✓

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Date:

Additional Comments:

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R Creghton

Date: 11/15/2013

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access	Good	/
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	/
B	Ditches	Good	/
C	Culverts	No flow	/
D	Perimeter Fence	Gates <u>/</u>	/
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	/
3 Containment Cell			
A	Surface Cover System	Burrows <u>/</u> Vegetation___	/
B	Gas Vents (2)		/
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	/
C	Collection Pipe / Cleanout		/
D	Perimeter Drains (4)	No Flow	/
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	/
B	Pumps and Plumbing	Pump 1 Hours <u>36.0</u> Pump 2 Hours <u>222.2</u>	/
B'	Pump Changeover	(Y or N) Lead Pump ___ Lag Pump___	/
B''	Test Automatic Pump Controls	LSHH___, LSH___, LSL___, LSL___	/
C	Electrical Components	Test Pumps (Y or N), Light Bulbs___ <u>changed 5 bulbs</u>	/
D	Manhole Interstitial Space		/
E	Conveyance Pipe	Drp	/
F	Influent Pipe		/
G	Confined Space Entry	(Y or N) (see Form B)	/

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock <u>✓</u> , Vent <u>✓</u> , Heater <u>✓</u>	✓
B	Electrical and Telephone	Elec <u>✓</u> Phone <u>✓</u>	✓
C	Auto Dialer and Controls	Test Functions (Y or <u>N</u>) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>)	✓
A'	Flow Totalizer	Reading = <u>15 00</u> gal. Totalizer Tank (83500)	✓
B	Secondary Containment	Liquid (Y or <u>N</u>)	✓
C	Piping Components		✓
D	Electrical Components	Lock <u>✓</u> Light Bulbs <u>✓</u>	✓
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	✓

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery. There is no handwriting or other markings on the page.

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: PAUL FISHER

Date: 12/10/13

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	<u>SNOW MELTED</u>	✓
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	<u>GOOD</u>	✓
B	Ditches	<u>GRASS LINED</u>	✓
C	Culverts	<u>OPEN</u>	✓
D	Perimeter Fence	Gates <u>WEST</u>	✓
E	Utilities	Elec. <u>✓</u> Phone <u>✓</u>	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>3</u> Vegetation <u>GOOD - MOWED</u>	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External <u>✓</u> Internal <u>✓</u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>136</u> Pump 2 Hours <u>222</u>	✓
B'	Pump Changeover	(Y or N) Lead Pump <u>1</u> Lag Pump <u>2</u>	✓
B''	Test Automatic Pump Controls	LSHH <u>✓</u> , LSH <u>No</u> , LSL <u>No</u> , LSL <u>No</u>	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs <u>✓</u> <u>SEE COMMENTS</u>	✓
D	Manhole Interstitial Space	<u>SURFACE LEAK - CONTAINS WATER</u>	✓
E	Conveyance Pipe		✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

**RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: _____

Date: _____

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ☒ , Vent <u>OFF</u> , Heater <u>ON</u>	✓
B	Electrical and Telephone	Elec ☒ Phone ☒	✓
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F) <u>11/6/13</u>	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N)	✓
A'	Flow Totalizer	Reading = <u>1600</u> gal. = <u>83600 @ METER</u>	✓
B	Secondary Containment	Liquid (Y or N) ☒	✓
C	Piping Components		✓
D	Electrical Components	Lock ☒ Light Bulbs <u>NEW BULBS</u>	✓
E	Leachate Sampling	(Y or N) ☒ (see Form C)	✓

Additional Comments:

- PUMP FITTING LEAK WHEN TESTING PUMP - TURNED
OFF BOTH PUMP; CALLED FOR REPAIR

- H&I ON SITE TO ADJUST SLADA.

APPENDIX B
AUTO DIALER ALARM INCIDENT AND TESTING REPORT - FORM F

2012-2013 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

JANUARY 2014

**AUTO DIALER ALARM INCIDENT AND TESTING REPORT (FORM F)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Creighton / Fisher

Received Alarm: Y or (N)

Tested Alarm: (Y) or N

Date Received: _____

Date Tested: 12/22/2012

Time Received: _____

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)	NA	Measured: <u>Not Utilized for</u> Reading: <u>Leachate (See SPDES 03B)</u>
2	Tank High Level (100%)	NA	
3	Tank Leak	NA	
4	Tank 90% Full	NA	
5	High Manhole Level	yes	
6	Manhole Leak	yes	
7	Pipe Leak	yes	
8	Tank Low Temperature	NA	
9	Inside Temperature	yes	
10	Outside Temperature	yes	
11-15	Not In Use	NA	
16	Power Off	yes	

Reason for Alarm: Annual RAF Inspection

Action Taken: _____

Comments: _____

**AUTO DIALER ALARM INCIDENT AND TESTING REPORT (FORM F)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: PAUL FISHER Received Alarm: Y or N
Tested Alarm: Y or N SEE COMMENTS Date Received: _____
Date Tested: 11/6/13 Time Received: _____

Channel No.	Function	Alarm Rec'd	Testing Results
<u>0</u> 1	Tank Level (@ 80%)		Measured: <u>28"</u> Reading: <u>28"</u>
<u>1</u> 2	Tank High Level (100%)		<u>OK</u>
<u>2</u> 3	Tank Leak		<u>OK TO SCADA, NEED NEW FLOAT SWITCH</u>
<u>3</u> 4	Tank 90% Full		
<u>4</u> 5	High Manhole Level		<u>OK</u>
<u>5</u> 6	Manhole Leak	<u>2 SWITCH</u>	<u>1/2 FULL OF WATER</u>
<u>6</u> 7	Pipe Leak		
<u>7</u> 8	Tank Low Temperature		<u>OK w/ ICE</u>
<u>8</u> 9	Inside Temperature		<u>OK</u>
<u>9</u> 10	Outside Temperature		<u>OK</u>
<u>11-15</u>	Not In Use <u>SEE COMMENTS</u>		
<u>22</u> ~~16~~	Power Off		<u>OK</u>

Reason for Alarm: _____

Action Taken: _____

Comments: THE AUTO DIALER WAS UPGRADED TO A SCADA 3000.
THIS ADJUSTED THE CHANNEL NUMBERS, AS MARKED, AND ADDED
CHANNELS 10-21 FOR SSDS.

APPENDIX C
LEACHATE DISPOSAL CORRESPONDENCE AND ANALYTICAL DATA

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014



Leachate Management

In 2012 and 2013, leachate was managed through Outfall 03B. In accordance with the relinquishment of SPDES Permit No. NY-0257087, the leachate will no longer be discharged into Outfall 03B. Beginning in April 2013, the leachate was returned to being collected and stored as set forth in the remedial design.

**APPENDIX D
WATER LEVEL FIELD LOGS - FORM D**

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014

**WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: MC + RC Date: 4/30/2012

Location	Installed Depth (ft.)	Measured Depth (ft.) ¹ (TOR)	Top Elevation (ft.) ¹ (TOR)	Water Depth (ft.) ¹	Water Elevation (ft.) ²	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.51	465.47	4.05	461.42	6.46		
MW-13A	10.92	11.06	469.23	3.18	466.05	7.88		
MW-14	13.00	12.76	478.37	3.31	475.06	9.45		
MW-17	11.25	11.25	466.02	10.97	455.05	0.28		
MW-18	11.73	11.80	475.96	5.16	470.80	6.64		
SCT CO-1			472.30					
SCT CO-2			473.42					
SCT CO-3			471.21					
NCT CO-1			464.70					
MH-2 (Collection)	12.80		465.31					

Notes:

- 1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
- 2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
- 3) MW = Monitoring Well
- 4) SCT = Southern Collection Trench
- 5) NCT = Northern Collection Trench
- 6) CO = Clean Out (Depths and Elevations are Approximate)
- 7) MH = Manhole

General Comments: _____

**WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: MC + RC

Date: 10/29/12

Location	Installed Depth (ft.)	Measured Depth (ft.) ¹ (TOR)	Top Elevation (ft.) ¹ (TOR)	Water Depth (ft.) ¹	Water Elevation (ft.) ²	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.59	465.47	4.45	461.02	6.14		
MW-13A	10.92	11.07	469.23	4.08	465.15	6.99		
MW-14	13.00	12.79	478.37	4.86	461.16	7.93		
MW-17	11.25	11.25	466.02	10.95	455.07	6.30		
MW-18	11.73	11.79	475.96	6.06	469.90	5.73		
SCT CO-1			472.30					
SCT CO-2			473.42					
SCT CO-3			471.21					
NCT CO-1			464.70					
MH-2 (Collection)	12.80		465.31					

Notes:

- 1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
- 2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
- 3) MW = Monitoring Well
- 4) SCT = Southern Collection Trench
- 5) NCT = Northern Collection Trench
- 6) CO = Clean Out (Depths and Elevations are Approximate)
- 7) MH = Manhole

General Comments:

**WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: MC + RC

Date: 3/26/13

Location	Installed Depth (ft.)	Measured Depth (ft.) ¹ (TOR)	Top Elevation (ft.) ¹ (TOR)	Water Depth (ft.) ¹	Water Elevation (ft.) ²	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.41	465.47	3.86				
MW-13A	10.92	10.98	469.23	2.75				
MW-14	13.00	5.82	478.37	5.82				Appears frozen or obstructed
MW-17	11.25	11.25	466.02	10.41				
MW-18	11.73	11.70	475.96	4.59				
SCT CO-1			472.30					
SCT CO-2			473.42					
SCT CO-3			471.21					
NCT CO-1			464.70					
MH-2 (Collection)	12.80		465.31					

Notes:

- 1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
- 2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
- 3) MW = Monitoring Well
- 4) SCT = Southern Collection Trench
- 5) NCT = Northern Collection Trench
- 6) CO = Clean Out (Depths and Elevations are Approximate)
- 7) MH = Manhole

General Comments: _____

**WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Creighton Date: 10/29/13

Location	Installed Depth (ft.)	Measured Depth (ft.) ¹ (TOR)	Top Elevation (ft.) ¹ (TOR)	Water Depth (ft.) ¹	Water Elevation (ft.) ²	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.40'	465.47	4.71'	460.76	5.69	11:15	
MW-13A	10.92	11.06'	469.23	3.86'	465.37	7.20	11:05	
MW-14A	13.00	12.49	~~478.37~~ 477.95	4.25	473.70	8.24	11:00	
MW-17	11.25	11.30	466.02	10.24	455.78	1.06	11:40	
MW-18	11.73	11.71'	475.96	6.19'	469.77	5.52	11:20	
SCT CO-1			472.30					
SCT CO-2			473.42					
SCT CO-3			471.21					
NCT CO-1			464.70					
MH-2 (Collection)	12.80		465.31					

Notes:

- 1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
- 2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
- 3) MW = Monitoring Well
- 4) SCT = Southern Collection Trench
- 5) NCT = Northern Collection Trench
- 6) CO = Clean Out (Depths and Elevations are Approximate)
- 7) MH = Manhole

General Comments:

MW-14 - elevation has not been adjusted yet

**APPENDIX E
GROUNDWATER SAMPLING LOGS – FORM E**

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: MC + RC Date: 4/30/2012 Well Number: MW-6B

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
14:46				400	6.35	7.16	18.4	.520	0	-46	120	
14:50				400	5.41	7.84	17.66	.510	0	-37	72	
14:53				400	5.51	6.9	17.35	.487	0	-57	42.8	
14:56				400	5.55	6.68	17.02	.451	0	-69	30.6	
15:00				400	5.59	6.49	16.78	.431	0	-70	4.7	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbis Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO ₃	1	Metals/Hardness
~~4-OZ P/C~~	~~None~~	~~1~~	~~As/B/Cad/Cd~~
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity
Vial	HCl	3	VOCs
1000 mL A	None	2	PCBs

Sample Collection Time	Start	End
	15:00	

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Well Number: MW-13A

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
~~4-OZ P/G~~	~~None~~	~~1~~	~~Alk/Bicard/Card~~
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity
Vial	HCl	3	VOCs
1000 mL A	None	2	PCBs

Sample Collection Time	Start	End
	13:55	

plus MS and
MSD

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: MC+RC Date: 04/30/2012 Well Number: MW- 14

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
12:03				425	6.05	6.75	9.57	.222	0	1	0	
12:06				425	6.05	6.71	9.46	.218	0	-4	0.2	
12:09				425	6.05	6.6	9.56	.218	0	-12	0	
12:12				300	7.82	6.52	9.59	.223	0	-36	0	
12:15				300	9.35	6.39	9.56	.239	0	-57	0	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbis Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO ₃	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Carb
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity
vials	HCl	3	VOCs
1000mL A	None	2	PCBs

Sample Collection Time	Start	End
	12:20	

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

[illegible]

Sampling/Purge Equipment	
Water Level Meter:	SoilInst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO ₃	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity

Sample Collection Time	Start	End

Insufficient groundwater for sample collection

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

[illegible]

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO ₃	1	Metals/Hardness
~~4 OZ P/G~~	~~None~~	~~1~~	~~Alk/Bicard/Card~~
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity
Vial	ACL	3	VOCs
1000ml A	None	2	PCBs

Sample Collection Time	Start	End
	19:40	

plus dup.

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC, MC Date: 10/29/12 Well Number: MW-6R

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:40					4.45							
13:45				350	4.90	7.29	17.3	.437	.82	22	106	350
13:49				350	5.45	7.22	17.35	.437	.19	8	106	700
13:52				350	5.50	7.20	17.36	.434	0	1	70.9	1050
13:54				350	5.55	7.18	17.39	.431	0	-8	53.8	1400
13:56				350	5.60	7.11	17.38	.498	0	-23	20.4	1750
13:59				350	5.62	6.98	17.34	.343	0	-28	0	2100
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity

Sample Collection Time	Start	End

10.59' to bottom

GROUNDWATER SAMPLING LOG (FORM E) OPERATION, MAINTENANCE, AND MONITORING

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC, MC Date: 10/29/12 Well Number: MW-13A

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:35					4.08							
12:53				200	4.85	7.13	16.4	.372	4.08	44	29.8	200
12:56				200	9.05	7.25	16.69	.372	1.99	51	22.9	400
12:59				200	5.24	7.26	16.85	.373	1.35	7	9.6	600
1:01				200	5.35	7.26	16.95	.374	1.89	-10	2.2	800
13:15				200	5.50	7.27	17.04	.376	1.62	-25	0.0	1000
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	N	N	Y	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbis Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End
	13:10	13:20

11.07' to bottom

MW-13A MS/MSD

GROUNDWATER SAMPLING LOG (FORM E) OPERATION, MAINTENANCE, AND MONITORING

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC, MC Date: 10/29/12 Well Number: MW-14

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:30					4.86							
12:10				350	6.45	6.92	13.72	.242	.37	-74	360	350
12:14				350	7.35	6.93	13.51	.241	0	-78	366	700
12:18				350	8.25	6.94	13.46	.241	0	-80	261	1050
12:21				350	8.89	6.95	13.36	.239	0	-71	248	1900
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y					

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End
	12:25	12:35

12.79' to bottom

11/11/12



**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton Date: 10/29/2012 Well Number: MW-17

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
					10.95							
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO ₃	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card Br, Cl, SO ₄ , TDS, SU, Turbidity
32-OZ P	None	1	

Sample Collection Time	Start	End

Insufficient H₂O to allow for sample collection.

GROUNDWATER SAMPLING LOG (FORM E) OPERATION, MAINTENANCE, AND MONITORING

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC, MC Date: 10/29/12 Well Number: MW-18

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:50					6.06							
14:48				300	6.75	7.02	14.57	.441	.58	87	27.6	300
14:52				300	7.15	6.98	14.46	.440	.19	55	36	600
14:55				300	7.25	6.97	14.4	.380	.03	30	29.4	900
14:59				300	7.25	6.97	14.37	.436	0	10	10.4	1200
15:00				300	7.25	6.97	14.34	.436	0	0	0	1500
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbis Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End
	15:00	16:20

11.79 to bottom 10/29/12 - Dup

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RCH MC Date: 3/26/13 Well Number: MW-6R

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
					3.86							
12:41				600	6.20	7.10	6.35	.279	18.3	-203	47.1	
12:44					6.35	7.14	6.04	.283	0.0	-202	1.5	
12:48					6.42	7.02	5.94	.289	0.0	-196	0.0	
12:54					6.51	6.88	5.85	.291	0.0	-186	0.0	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												4 gal

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbis Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card Br, Cl, SO4, TDS, SU, Turbidity
32-OZ P	None	1	

Depth to bottom: 10.41'

Sample Collection Time	Start	End
	12:55	

~~MW-6R 11.25' depth to bottom~~
~~10.41' depth to bottom~~

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC+MC Date: 3/26/13 Well Number: MW-13a

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:35					2.75	8.06	9.38	.392	6.19	-26	0.0	
11:38						7.61	8.52	.399	0.00	-95	0.0	
11:43				700		7.43	8.13	.403	0.00	-128	0.0	
11:46					6.55	7.45	8.13	.405	0.00	-137	0.0	3 ga.
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)					y	y	y	y	y	y	y	3 ga.

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card Br, Cl, SO4, TDS, SU, Turbidity
32-OZ P	None	1	

depth to bottom: 10.98'

Sample Collection Time	Start	End
	11:45	11:57

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC+MC Date: 3/26/13 Well Number: MW-14

[illegible]

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End

Depth to bottom: 5.82'
↳ appears to be ice/frozen
↳ obstruction

Not Sampled

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: AC + MC Date: 3/26/13 Well Number: MW-17

[illegible]

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Insufficient groundwater to allow sample collection

Sample Collection Time	Start	End

GROUNDWATER SAMPLING LOG (FORM E) OPERATION, MAINTENANCE, AND MONITORING

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: RC + MC Date: 3/26/13 Well Number: MW-18

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
					4.59'							
14:02				5:50	6.92	7.07	6.93	.924	23.2	-60	2.1	
14:06					7.15	7.07	6.76	.925	.22	-65	0.0	
14:09					7.30	7.06	6.72	.927	0.0	-73	0.0	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												2.5 gal

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

depth to bottom: 11.70'

Sample Collection Time	Start	End
	13:55	14:33

GROUNDWATER SAMPLING LOG (FORM E) OPERATION, MAINTENANCE, AND MONITORING

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Creighton Date: 10/29/13 Well Number: MW- 6R

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
14:08				200	6.60'	7.27	16.55	0.506	0.70	-20	288	
14:11				250	6.40'	7.13	16.37	0.459	0	-39	165	
14:14				300	6.40	7.02	16.71	0.426	0	-62	138	
14:17				300	6.40'	6.94	16.80	0.409	0	-72	89.2	
14:19					6.40	6.93	16.94	0.413	0	-77	75	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End
	14:15	14:30

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Craig Hottel Date: 10/29/13 Well Number: MW-13A

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
13:15				475	5.70	7.38	16.44	.516	4.94	132	17.7	
13:18				475	5.95	7.36	16.68	.522	2.26	101	92.9	
13:21				400	5.85	7.33	16.82	.530	0.72	21	94.3	
13:23				400	5.85	7.32	17.11	.533	0	-4	65.4	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity

Sample Collection Time	Start	End
	13:30	13:45

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Creighton Date: 10/29/13 Well Number: MW-14

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
12:38				450	5.75	6.73	13.31	.711	.98	90	724	
12:40				500	7.85	6.72	13.28	.723	0	105	817	
12:43				400 ~~488~~	6.55	6.74	13.34	.735	0	114	7100	
12:46					6.60	6.74	13.75	.742	0	117	0	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO4, TDS, SU, Turbidity

Initial flow to flow thru cell had initial settlement from bottom of well, cleared out by final reading

Sample Collection Time	Start	End
	12:45	13:00

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Creighton Date: 10/29/13 Well Number: MW-17

[illegible]

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br. Cl. SO4, TDS, SU, Turbidity

Sample Collection Time	Start	End

Insufficient groundwater for sample

**GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING**

**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: Roger Creighton Date: 10/29/13 Well Number: MW-18

TIME	PUMP SETTING (feet of H ₂ O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
15:02				450	7.30	7.03	14.23	0.651	0	-70	110	
15:05				450	7.40	7.05	14.37	0.657	0	-77	54.8	
15:08				450	7.50	7.06	14.63	0.657	0	-80	19.7	
15:11					7.60	7.07	14.56	0.660	0	-84	9.8	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)												

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horiba Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals/Hardness
4-OZ P/G	None	1	Alk/Bicard/Card
32-OZ P	None	1	Br, Cl, SO ₄ , TDS, SU, Turbidity

Sample Collection Time	Start	End
	15:06	

**APPENDIX F
GROUNDWATER ANALYTICAL DATA**

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-19405-1

Client Project/Site: 2200 Bleeker Street Semi-annual

For:

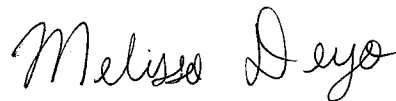
Synapse Risk Management, LLC

Historic Risk Management LLC

360 Erie Blvd. East, 2nd Floor

Syracuse, New York 13202

Attn: Mr. Roger R Creighton



Authorized for release by:

5/11/2012 8:55:08 AM

Melissa Deyo

Project Manager I

melissa.deyo@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Job ID: 480-19405-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-19405-1

Receipt

The samples were received on 5/1/2012 9:00 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.70 C, 2.50 C and 2.60 C.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 63576 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: MW-14

Lab Sample ID: 480-19405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0018	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0019	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-13A

Lab Sample ID: 480-19405-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0021	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 480-19405-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0017	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-18

Lab Sample ID: 480-19405-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	20		1.0	0.90	ug/L	1		8260B	Total/NA

Client Sample ID: 043012

Lab Sample ID: 480-19405-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	19		1.0	0.90	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-19405-6

No Detections

Client Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: MW-14

Date Collected: 04/30/12 12:20

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 02:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 02:36	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 02:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/12 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137					05/09/12 02:36	1
Toluene-d8 (Surr)	97		71 - 126					05/09/12 02:36	1
4-Bromofluorobenzene (Surr)	100		73 - 120					05/09/12 02:36	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1221	ND		0.49	0.17	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1232	ND		0.49	0.17	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1242	ND		0.49	0.17	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1248	ND		0.49	0.17	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1254	ND		0.49	0.24	ug/L		05/02/12 07:28	05/03/12 00:15	1
PCB-1260	ND		0.49	0.24	ug/L		05/02/12 07:28	05/03/12 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		19 - 112				05/02/12 07:28	05/03/12 00:15	1
Tetrachloro-m-xylene	83		23 - 127				05/02/12 07:28	05/03/12 00:15	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 20:44	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 20:44	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 20:44	1
Nickel	0.0018	J	0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 20:44	1
Zinc	0.0019	J	0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 20:44	1

Client Sample ID: MW-13A

Date Collected: 04/30/12 13:55

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 03:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 03:01	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 03:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/12 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 137					05/09/12 03:01	1
Toluene-d8 (Surr)	94		71 - 126					05/09/12 03:01	1
4-Bromofluorobenzene (Surr)	98		73 - 120					05/09/12 03:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		05/02/12 07:28	05/03/12 00:30	1
PCB-1221	ND		0.52	0.18	ug/L		05/02/12 07:28	05/03/12 00:30	1

Client Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: MW-13A

Date Collected: 04/30/12 13:55

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-2

Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.52	0.18	ug/L		05/02/12 07:28	05/03/12 00:30	1
PCB-1242	ND		0.52	0.18	ug/L		05/02/12 07:28	05/03/12 00:30	1
PCB-1248	ND		0.52	0.18	ug/L		05/02/12 07:28	05/03/12 00:30	1
PCB-1254	ND		0.52	0.26	ug/L		05/02/12 07:28	05/03/12 00:30	1
PCB-1260	ND		0.52	0.26	ug/L		05/02/12 07:28	05/03/12 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		19 - 112				05/02/12 07:28	05/03/12 00:30	1
Tetrachloro-m-xylene	87		23 - 127				05/02/12 07:28	05/03/12 00:30	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 20:46	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 20:46	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 20:46	1
Nickel	ND		0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 20:46	1
Zinc	0.0021	J	0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 20:46	1

Client Sample ID: MW-6R

Date Collected: 04/30/12 15:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 04:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 04:15	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 04:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/12 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137					05/09/12 04:15	1
Toluene-d8 (Surr)	96		71 - 126					05/09/12 04:15	1
4-Bromofluorobenzene (Surr)	100		73 - 120					05/09/12 04:15	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.51	0.18	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1221	ND		0.51	0.18	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1232	ND		0.51	0.18	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1242	ND		0.51	0.18	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1248	ND		0.51	0.18	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1254	ND		0.51	0.26	ug/L		05/02/12 07:28	05/03/12 01:14	1
PCB-1260	ND		0.51	0.26	ug/L		05/02/12 07:28	05/03/12 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		19 - 112				05/02/12 07:28	05/03/12 01:14	1
Tetrachloro-m-xylene	79		23 - 127				05/02/12 07:28	05/03/12 01:14	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 21:00	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 21:00	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 21:00	1

Client Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: MW-6R

Date Collected: 04/30/12 15:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-3

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 21:00	1
Zinc	0.0017	J	0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 21:00	1

Client Sample ID: MW-18

Date Collected: 04/30/12 15:40

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 04:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 04:40	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 04:40	1
Vinyl chloride	20		1.0	0.90	ug/L			05/09/12 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		05/09/12 04:40	1
Toluene-d8 (Surr)	100		71 - 126		05/09/12 04:40	1
4-Bromofluorobenzene (Surr)	106		73 - 120		05/09/12 04:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.17	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1221	ND		0.50	0.17	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1232	ND		0.50	0.17	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1242	ND		0.50	0.17	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1248	ND		0.50	0.17	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1254	ND		0.50	0.25	ug/L		05/02/12 07:28	05/03/12 01:29	1
PCB-1260	ND		0.50	0.25	ug/L		05/02/12 07:28	05/03/12 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		19 - 112	05/02/12 07:28	05/03/12 01:29	1
Tetrachloro-m-xylene	89		23 - 127	05/02/12 07:28	05/03/12 01:29	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 21:02	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 21:02	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 21:02	1
Nickel	ND		0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 21:02	1
Zinc	ND		0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 21:02	1

Client Sample ID: 043012

Date Collected: 04/30/12 00:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 05:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 05:05	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 05:05	1
Vinyl chloride	19		1.0	0.90	ug/L			05/09/12 05:05	1

Client Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: 043012

Date Collected: 04/30/12 00:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		66 - 137		05/09/12 05:05	1
Toluene-d8 (Surr)	99		71 - 126		05/09/12 05:05	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/09/12 05:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.17	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1221	ND		0.47	0.17	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1232	ND		0.47	0.17	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1242	ND		0.47	0.17	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1248	ND		0.47	0.17	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1254	ND		0.47	0.24	ug/L		05/02/12 07:28	05/03/12 01:44	1
PCB-1260	ND		0.47	0.24	ug/L		05/02/12 07:28	05/03/12 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		19 - 112	05/02/12 07:28	05/03/12 01:44	1
Tetrachloro-m-xylene	89		23 - 127	05/02/12 07:28	05/03/12 01:44	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 21:04	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 21:04	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 21:04	1
Nickel	ND		0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 21:04	1
Zinc	ND		0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 21:04	1

Client Sample ID: TRIP BLANK

Date Collected: 04/30/12 00:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/12 05:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/12 05:30	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/12 05:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/12 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		05/09/12 05:30	1
Toluene-d8 (Surr)	98		71 - 126		05/09/12 05:30	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/09/12 05:30	1

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-19405-1	MW-14	92	97	100
480-19405-2	MW-13A	89	94	98
480-19405-2 MS	MW-13A	91	96	102
480-19405-2 MSD	MW-13A	90	96	102
480-19405-3	MW-6R	92	96	100
480-19405-4	MW-18	97	100	106
480-19405-5	043012	94	99	103
480-19405-6	TRIP BLANK	95	98	103
LCS 480-63576/5	Lab Control Sample	87	95	101
MB 480-63576/6	Method Blank	87	95	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (19-112)	TCX2 (23-127)
480-19405-1	MW-14	56	83
480-19405-2	MW-13A	87	87
480-19405-2 MS	MW-13A	45	86
480-19405-2 MSD	MW-13A	62	82
480-19405-3	MW-6R	80	79
480-19405-4	MW-18	89	89
480-19405-5	043012	70	89
LCS 480-62606/2-A	Lab Control Sample	49	86
MB 480-62606/1-A	Method Blank	58	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-63576/6

Matrix: Water

Analysis Batch: 63576

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/08/12 23:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/08/12 23:04	1
Trichloroethene	ND		1.0	0.46	ug/L			05/08/12 23:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/08/12 23:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 137		05/08/12 23:04	1
Toluene-d8 (Surr)	95		71 - 126		05/08/12 23:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120		05/08/12 23:04	1

Lab Sample ID: LCS 480-63576/5

Matrix: Water

Analysis Batch: 63576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	74 - 124
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	73 - 127
Trichloroethene	25.0	24.9		ug/L		100	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Lab Sample ID: 480-19405-2 MS

Matrix: Water

Analysis Batch: 63576

Client Sample ID: MW-13A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		25.0	32.1	F	ug/L		128	74 - 124
trans-1,2-Dichloroethene	ND		25.0	34.6	F	ug/L		138	73 - 127
Trichloroethene	ND		25.0	31.5	F	ug/L		126	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	102		73 - 120

Lab Sample ID: 480-19405-2 MSD

Matrix: Water

Analysis Batch: 63576

Client Sample ID: MW-13A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	33.4	F	ug/L		134	74 - 124	4	15
trans-1,2-Dichloroethene	ND		25.0	35.5	F	ug/L		142	73 - 127	3	20
Trichloroethene	ND		25.0	32.8	F	ug/L		131	74 - 123	4	16

QC Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-19405-2 MSD

Matrix: Water

Analysis Batch: 63576

Client Sample ID: MW-13A

Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	102		73 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-62606/1-A

Matrix: Water

Analysis Batch: 62692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62606

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
PCB-1016	ND		0.50	0.18	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1221	ND		0.50	0.18	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1232	ND		0.50	0.18	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1242	ND		0.50	0.18	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1248	ND		0.50	0.18	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1254	ND		0.50	0.25	ug/L		05/02/12 07:28	05/02/12 22:32	1	
PCB-1260	ND		0.50	0.25	ug/L		05/02/12 07:28	05/02/12 22:32	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
DCB Decachlorobiphenyl	58		19 - 112	05/02/12 07:28	05/02/12 22:32	1				
Tetrachloro-m-xylene	72		23 - 127	05/02/12 07:28	05/02/12 22:32	1				

Lab Sample ID: LCS 480-62606/2-A

Matrix: Water

Analysis Batch: 62692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62606

		Spike	LCS	LCS						
Analyte		Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
PCB-1016		5.00	4.24		ug/L		85	61 - 116		
PCB-1260		5.00	3.80		ug/L		76	45 - 110		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	49		19 - 112
Tetrachloro-m-xylene	86		23 - 127

Lab Sample ID: 480-19405-2 MS

Matrix: Water

Analysis Batch: 62692

Client Sample ID: MW-13A

Prep Type: Total/NA

Prep Batch: 62606

	Sample	Sample	Spike	MS	MS					
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
PCB-1016	ND		4.72	4.51		ug/L		96	52 - 134	
PCB-1260	ND		4.72	3.41		ug/L		72	19 - 136	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	45		19 - 112
Tetrachloro-m-xylene	86		23 - 127

QC Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-19405-2 MSD

Matrix: Water

Analysis Batch: 62692

Client Sample ID: MW-13A

Prep Type: Total/NA

Prep Batch: 62606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.91	4.50		ug/L		92	52 - 134	0	50
PCB-1260	ND		4.91	3.95		ug/L		81	19 - 136	15	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	62		19 - 112								
Tetrachloro-m-xylene	82		23 - 127								

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-62582/1-A

Matrix: Water

Analysis Batch: 62813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		05/02/12 08:00	05/02/12 20:12	1
Copper	ND		0.010	0.0016	mg/L		05/02/12 08:00	05/02/12 20:12	1
Lead	ND		0.0050	0.0030	mg/L		05/02/12 08:00	05/02/12 20:12	1
Nickel	ND		0.010	0.0013	mg/L		05/02/12 08:00	05/02/12 20:12	1
Zinc	ND		0.010	0.0015	mg/L		05/02/12 08:00	05/02/12 20:12	1

Lab Sample ID: LCS 480-62582/2-A

Matrix: Water

Analysis Batch: 62813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.197		mg/L		99	85 - 115
Copper	0.200	0.195		mg/L		98	85 - 115
Lead	0.200	0.193		mg/L		97	85 - 115
Nickel	0.200	0.193		mg/L		97	85 - 115
Zinc	0.200	0.224		mg/L		112	85 - 115

Lab Sample ID: 480-19405-2 MS

Matrix: Water

Analysis Batch: 62813

Client Sample ID: MW-13A

Prep Type: Total/NA

Prep Batch: 62582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		0.200	0.198		mg/L		99	70 - 130
Copper	ND		0.200	0.198		mg/L		99	70 - 130
Lead	ND		0.200	0.201		mg/L		100	70 - 130
Nickel	ND		0.200	0.196		mg/L		98	70 - 130
Zinc	0.0021	J	0.200	0.225		mg/L		112	70 - 130

Lab Sample ID: 480-19405-2 MSD

Matrix: Water

Analysis Batch: 62813

Client Sample ID: MW-13A

Prep Type: Total/NA

Prep Batch: 62582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		0.200	0.194		mg/L		97	70 - 130	2	20
Copper	ND		0.200	0.194		mg/L		97	70 - 130	2	20
Lead	ND		0.200	0.194		mg/L		97	70 - 130	3	20

QC Sample Results

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-19405-2 MSD

Matrix: Water

Analysis Batch: 62813

Client Sample ID: MW-13A

Prep Type: Total/NA

Prep Batch: 62582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	ND		0.200	0.191		mg/L		95	70 - 130	3	20
Zinc	0.0021	J	0.200	0.221		mg/L		109	70 - 130	2	20

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

GC/MS VOA

Analysis Batch: 63576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19405-1	MW-14	Total/NA	Water	8260B	
480-19405-2	MW-13A	Total/NA	Water	8260B	
480-19405-2 MS	MW-13A	Total/NA	Water	8260B	
480-19405-2 MSD	MW-13A	Total/NA	Water	8260B	
480-19405-3	MW-6R	Total/NA	Water	8260B	
480-19405-4	MW-18	Total/NA	Water	8260B	
480-19405-5	043012	Total/NA	Water	8260B	
480-19405-6	TRIP BLANK	Total/NA	Water	8260B	
LCS 480-63576/5	Lab Control Sample	Total/NA	Water	8260B	
MB 480-63576/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 62606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19405-1	MW-14	Total/NA	Water	3510C	
480-19405-2	MW-13A	Total/NA	Water	3510C	
480-19405-2 MS	MW-13A	Total/NA	Water	3510C	
480-19405-2 MSD	MW-13A	Total/NA	Water	3510C	
480-19405-3	MW-6R	Total/NA	Water	3510C	
480-19405-4	MW-18	Total/NA	Water	3510C	
480-19405-5	043012	Total/NA	Water	3510C	
LCS 480-62606/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-62606/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 62692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19405-1	MW-14	Total/NA	Water	8082	62606
480-19405-2	MW-13A	Total/NA	Water	8082	62606
480-19405-2 MS	MW-13A	Total/NA	Water	8082	62606
480-19405-2 MSD	MW-13A	Total/NA	Water	8082	62606
480-19405-3	MW-6R	Total/NA	Water	8082	62606
480-19405-4	MW-18	Total/NA	Water	8082	62606
480-19405-5	043012	Total/NA	Water	8082	62606
LCS 480-62606/2-A	Lab Control Sample	Total/NA	Water	8082	62606
MB 480-62606/1-A	Method Blank	Total/NA	Water	8082	62606

Metals

Prep Batch: 62582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19405-1	MW-14	Total/NA	Water	200.7	
480-19405-2	MW-13A	Total/NA	Water	200.7	
480-19405-2 MS	MW-13A	Total/NA	Water	200.7	
480-19405-2 MSD	MW-13A	Total/NA	Water	200.7	
480-19405-3	MW-6R	Total/NA	Water	200.7	
480-19405-4	MW-18	Total/NA	Water	200.7	
480-19405-5	043012	Total/NA	Water	200.7	
LCS 480-62582/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-62582/1-A	Method Blank	Total/NA	Water	200.7	

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Metals (Continued)

Analysis Batch: 62813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-19405-1	MW-14	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-2	MW-13A	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-2 MS	MW-13A	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-2 MSD	MW-13A	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-4	MW-18	Total/NA	Water	200.7 Rev 4.4	62582
480-19405-5	043012	Total/NA	Water	200.7 Rev 4.4	62582
LCS 480-62582/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	62582
MB 480-62582/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	62582

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: MW-14

Date Collected: 04/30/12 12:20

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 02:36	JMB	TAL BUF
Total/NA	Prep	3510C			62606	05/02/12 07:28	TR	TAL BUF
Total/NA	Analysis	8082		1	62692	05/03/12 00:15	JM	TAL BUF
Total/NA	Prep	200.7			62582	05/02/12 08:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	62813	05/02/12 20:44	LH	TAL BUF

Client Sample ID: MW-13A

Date Collected: 04/30/12 13:55

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 03:01	JMB	TAL BUF
Total/NA	Prep	3510C			62606	05/02/12 07:28	TR	TAL BUF
Total/NA	Analysis	8082		1	62692	05/03/12 00:30	JM	TAL BUF
Total/NA	Prep	200.7			62582	05/02/12 08:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	62813	05/02/12 20:46	LH	TAL BUF

Client Sample ID: MW-6R

Date Collected: 04/30/12 15:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 04:15	JMB	TAL BUF
Total/NA	Prep	3510C			62606	05/02/12 07:28	TR	TAL BUF
Total/NA	Analysis	8082		1	62692	05/03/12 01:14	JM	TAL BUF
Total/NA	Prep	200.7			62582	05/02/12 08:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	62813	05/02/12 21:00	LH	TAL BUF

Client Sample ID: MW-18

Date Collected: 04/30/12 15:40

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 04:40	JMB	TAL BUF
Total/NA	Prep	3510C			62606	05/02/12 07:28	TR	TAL BUF
Total/NA	Analysis	8082		1	62692	05/03/12 01:29	JM	TAL BUF
Total/NA	Prep	200.7			62582	05/02/12 08:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	62813	05/02/12 21:02	LH	TAL BUF

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Client Sample ID: 043012

Date Collected: 04/30/12 00:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 05:05	JMB	TAL BUF
Total/NA	Prep	3510C			62606	05/02/12 07:28	TR	TAL BUF
Total/NA	Analysis	8082		1	62692	05/03/12 01:44	JM	TAL BUF
Total/NA	Prep	200.7			62582	05/02/12 08:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	62813	05/02/12 21:04	LH	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 04/30/12 00:00

Date Received: 05/01/12 09:00

Lab Sample ID: 480-19405-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	63576	05/09/12 05:30	JMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-19405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-19405-1	MW-14	Water	04/30/12 12:20	05/01/12 09:00
480-19405-2	MW-13A	Water	04/30/12 13:55	05/01/12 09:00
480-19405-3	MW-6R	Water	04/30/12 15:00	05/01/12 09:00
480-19405-4	MW-18	Water	04/30/12 15:40	05/01/12 09:00
480-19405-5	043012	Water	04/30/12 00:00	05/01/12 09:00
480-19405-6	TRIP BLANK	Water	04/30/12 00:00	05/01/12 09:00

THE LEADER IN ENVIRONMENTAL TESTING

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Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-19405-1

Login Number: 19405

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	SYANPSE
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



ANALYTICAL REPORT

Lab Number:	L1219625
Client:	Synapse Risk Management, LLC 360 Erie Blvd. East Syracuse, NY 13202
ATTN:	Roger Creighton
Phone:	(315) 475-3700
Project Name:	2200 BLEECKER STREET
Project Number:	DANA 01.12.02
Report Date:	11/06/12

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1219625-01	MW-14	UTICA, NY	10/29/12 12:25
L1219625-02	MW-13A	UTICA, NY	10/29/12 13:10
L1219625-03	MW-6R	UTICA, NY	10/29/12 13:59
L1219625-04	MW-18	UTICA, NY	10/29/12 15:00
L1219625-05	102912-DUP	UTICA, NY	10/29/12 00:00
L1219625-06	TRIP BLANK	UTICA, NY	10/29/12 00:00

Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Case Narrative (continued)

Report Submission

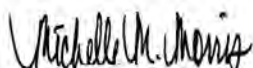
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

PCBs

L1219625-01, -03, -04 and -05 have elevated detection limits due to limited sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/06/12

ORGANICS

VOLATILES

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-01
Client ID: MW-14
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 15:46
Analyst: PD

Date Collected: 10/29/12 12:25
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	111		70-130

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-02
Client ID: MW-13A
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 13:39
Analyst: PD

Date Collected: 10/29/12 13:10
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-03
Client ID: MW-6R
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 14:04
Analyst: PD

Date Collected: 10/29/12 13:59
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	113		70-130

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-04
Client ID: MW-18
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 15:21
Analyst: PD

Date Collected: 10/29/12 15:00
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	8.0		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-05
Client ID: 102912-DUP
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 14:30
Analyst: PD

Date Collected: 10/29/12 00:00
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	8.6		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	116		70-130

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-06
Client ID: TRIP BLANK
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/01/12 14:55
Analyst: PD

Date Collected: 10/29/12 00:00
Date Received: 10/30/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	113		70-130

Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 11/01/12 09:49

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG571455-3					
Vinyl chloride	ND		ug/l	1.0	0.33
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG571455-1 WG571455-2								
Methylene chloride	96		98		70-130	2		20
1,1-Dichloroethane	98		100		70-130	2		20
Chloroform	106		109		70-130	3		20
Carbon tetrachloride	108		109		63-132	1		20
1,2-Dichloropropane	96		95		70-130	1		20
Dibromochloromethane	102		103		63-130	1		20
1,1,2-Trichloroethane	95		93		70-130	2		20
Tetrachloroethene	98		101		70-130	3		20
Chlorobenzene	99		100		75-130	1		20
Trichlorofluoromethane	101		101		62-150	0		20
1,2-Dichloroethane	111		111		70-130	0		20
1,1,1-Trichloroethane	109		107		67-130	2		20
Bromodichloromethane	105		106		67-130	1		20
trans-1,3-Dichloropropene	100		99		70-130	1		20
cis-1,3-Dichloropropene	100		102		70-130	2		20
1,1-Dichloropropene	99		102		70-130	3		20
Bromoform	97		98		54-136	1		20
1,1,2,2-Tetrachloroethane	91		98		67-130	7		20
Benzene	99		99		70-130	0		20
Toluene	96		96		70-130	0		20
Ethylbenzene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG571455-1 WG571455-2								
Chloromethane	88		82		64-130	7		20
Bromomethane	143	Q	140	Q	39-139	2		20
Vinyl chloride	83		83		55-140	0		20
Chloroethane	85		85		55-138	0		20
1,1-Dichloroethene	96		94		61-145	2		20
trans-1,2-Dichloroethene	100		102		70-130	2		20
Trichloroethene	101		101		70-130	0		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	99		99		70-130	0		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	101		104		63-130	3		20
p/m-Xylene	100		99		70-130	1		20
o-Xylene	100		99		70-130	1		20
cis-1,2-Dichloroethene	102		104		70-130	2		20
Dibromomethane	105		107		70-130	2		20
1,2,3-Trichloropropane	91		95		64-130	4		20
Acrylonitrile	97		102		70-130	5		20
Styrene	101		100		70-130	1		20
Dichlorodifluoromethane	68		67		36-147	1		20
Acetone	99		96		58-148	3		20
Carbon disulfide	84		90		51-130	7		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG571455-1 WG571455-2								
2-Butanone	76		80		63-138	5		20
Vinyl acetate	105		106		70-130	1		20
4-Methyl-2-pentanone	87		94		59-130	8		20
2-Hexanone	83		84		57-130	1		20
Bromochloromethane	107		111		70-130	4		20
2,2-Dichloropropane	109		110		63-133	1		20
1,2-Dibromoethane	96		98		70-130	2		20
1,3-Dichloropropane	97		98		70-130	1		20
1,1,1,2-Tetrachloroethane	105		104		64-130	1		20
Bromobenzene	97		100		70-130	3		20
n-Butylbenzene	95		95		53-136	0		20
sec-Butylbenzene	96		98		70-130	2		20
tert-Butylbenzene	98		99		70-130	1		20
o-Chlorotoluene	98		98		70-130	0		20
p-Chlorotoluene	98		99		70-130	1		20
1,2-Dibromo-3-chloropropane	99		103		41-144	4		20
Hexachlorobutadiene	96		101		63-130	5		20
Isopropylbenzene	94		98		70-130	4		20
p-Isopropyltoluene	98		98		70-130	0		20
Naphthalene	84		92		70-130	9		20
n-Propylbenzene	96		97		69-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG571455-1 WG571455-2								
1,2,3-Trichlorobenzene	89		95		70-130	7		20
1,2,4-Trichlorobenzene	93		97		70-130	4		20
1,3,5-Trimethylbenzene	98		99		64-130	1		20
1,2,4-Trimethylbenzene	99		100		70-130	1		20
1,4-Dioxane	86		111		56-162	25	Q	20
1,4-Diethylbenzene	95		95		70-130	0		20
4-Ethyltoluene	96		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	91		94		70-130	3		20
Ethyl ether	98		98		59-134	0		20
trans-1,4-Dichloro-2-butene	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		111		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	108		108		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG571455-4 WG571455-5 QC Sample: L1219625-02 Client ID: MW-13A

Methylene chloride	ND	10	11	106		10	102		70-130	10		20
1,1-Dichloroethane	ND	10	11	109		11	108		70-130	0		20
Chloroform	ND	10	12	121		12	117		70-130	0		20
Carbon tetrachloride	ND	10	12	122		12	124		63-132	0		20
1,2-Dichloropropane	ND	10	10	104		9.9	99		70-130	1		20
Dibromochloromethane	ND	10	11	114		11	109		63-130	0		20
1,1,2-Trichloroethane	ND	10	10	100		9.6	96		70-130	4		20
Tetrachloroethene	ND	10	11	107		11	107		70-130	0		20
Chlorobenzene	ND	10	10	104		10	103		75-130	0		20
Trichlorofluoromethane	ND	10	12	119		12	119		62-150	0		20
1,2-Dichloroethane	ND	10	12	126		12	121		70-130	0		20
1,1,1-Trichloroethane	ND	10	13	128		12	124		67-130	8		20
Bromodichloromethane	ND	10	12	121		12	115		67-130	0		20
trans-1,3-Dichloropropene	ND	10	10	102		10	100		70-130	0		20
cis-1,3-Dichloropropene	ND	10	10	104		9.9	99		70-130	1		20
1,1-Dichloropropene	ND	10	11	114		11	113		70-130	0		20
Bromoform	ND	10	10	105		9.7	97		54-136	3		20
1,1,2,2-Tetrachloroethane	ND	10	9.0	90		9.0	90		67-130	0		20
Benzene	ND	10	11	109		11	106		70-130	0		20
Toluene	ND	10	10	104		10	103		70-130	0		20
Ethylbenzene	ND	10	10	104		10	104		70-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG571455-4 WG571455-5 QC Sample: L1219625-02 Client ID: MW-13A												
Chloromethane	ND	10	7.3	73		8.1	81		64-130	10		20
Bromomethane	ND	10	12	116		14	140	Q	39-139	15		20
Vinyl chloride	ND	10	9.0	90		9.1	91		55-140	1		20
Chloroethane	ND	10	9.5	95		9.4	94		55-138	1		20
1,1-Dichloroethene	ND	10	11	107		11	110		61-145	0		20
trans-1,2-Dichloroethene	ND	10	11	111		11	109		70-130	0		20
Trichloroethene	ND	10	11	114		11	110		70-130	0		20
1,2-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3-Dichlorobenzene	ND	10	10	103		10	102		70-130	0		20
1,4-Dichlorobenzene	ND	10	9.9	99		9.9	99		70-130	0		20
Methyl tert butyl ether	ND	10	11	113		11	109		63-130	0		20
p/m-Xylene	ND	20	21	107		21	104		70-130	0		20
o-Xylene	ND	20	21	107		21	104		70-130	0		20
cis-1,2-Dichloroethene	ND	10	11	109		11	111		70-130	0		20
Dibromomethane	ND	10	12	116		11	111		70-130	9		20
1,2,3-Trichloropropane	ND	10	11	109		10	100		64-130	10		20
Acrylonitrile	ND	10	9.4	94		9.4	94		70-130	0		20
Styrene	ND	20	22	108		21	105		70-130	5		20
Dichlorodifluoromethane	ND	10	7.0	70		7.5	75		36-147	7		20
Acetone	ND	10	8.8	88		8.7	87		58-148	1		20
Carbon disulfide	ND	10	10	100		9.9	99		51-130	1		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG571455-4 WG571455-5 QC Sample: L1219625-02 Client ID: MW-13A

2-Butanone	ND	10	7.7	77		7.2	72		63-138	7		20
Vinyl acetate	ND	10	11	112		11	109		70-130	0		20
4-Methyl-2-pentanone	ND	10	9.2	92		9.8	98		59-130	6		20
2-Hexanone	ND	10	7.6	76		8.0	80		57-130	5		20
Bromochloromethane	ND	10	12	118		12	118		70-130	0		20
2,2-Dichloropropane	ND	10	11	109		11	111		63-133	0		20
1,2-Dibromoethane	ND	10	10	104		10	104		70-130	0		20
1,3-Dichloropropane	ND	10	10	100		9.8	98		70-130	2		20
1,1,1,2-Tetrachloroethane	ND	10	11	112		11	113		64-130	0		20
Bromobenzene	ND	10	10	102		10	101		70-130	0		20
n-Butylbenzene	ND	10	9.6	96		9.7	97		53-136	1		20
sec-Butylbenzene	ND	10	9.7	97		9.9	99		70-130	2		20
tert-Butylbenzene	ND	10	10	102		10	102		70-130	0		20
o-Chlorotoluene	ND	10	10	100		10	101		70-130	0		20
p-Chlorotoluene	ND	10	10	100		10	100		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	10	103		10	102		41-144	0		20
Hexachlorobutadiene	ND	10	9.7	97		10	103		63-130	3		20
Isopropylbenzene	ND	10	9.8	98		10	100		70-130	2		20
p-Isopropyltoluene	ND	10	10	101		10	100		70-130	0		20
Naphthalene	ND	10	8.5	85		8.6	86		70-130	1		20
n-Propylbenzene	ND	10	9.8	98		9.7	97		69-130	1		20

Matrix Spike Analysis Batch Quality Control

Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG571455-4 WG571455-5 QC Sample: L1219625-02 Client ID: MW-13A

1,2,3-Trichlorobenzene	ND	10	9.4	94		9.3	93		70-130	1		20
1,2,4-Trichlorobenzene	ND	10	9.6	96		9.6	96		70-130	0		20
1,3,5-Trimethylbenzene	ND	10	10	101		10	102		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	10	103		10	104		70-130	0		20
1,4-Dioxane	ND	1000	750	75		910	91		56-162	19		20
1,4-Diethylbenzene	ND	10	9.7	97		9.8	98		70-130	1		20
4-Ethyltoluene	ND	10	9.9	99		10	100		70-130	1		20
1,2,4,5-Tetramethylbenzene	ND	10	9.6	96		9.4	94		70-130	2		20
Ethyl ether	ND	10	10	106		10	101		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	6.3	63	Q	6.4	64	Q	70-130	2		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	118		114		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	113		109		70-130
Toluene-d8	97		96		70-130

PCBS

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-01
Client ID: MW-14
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/12 13:46
Analyst: KB

Date Collected: 10/29/12 12:25
Date Received: 10/30/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.118	0.048	1
Aroclor 1260	ND		ug/l	0.118	0.045	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	86		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	93		30-150

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-02
Client ID: MW-13A
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/12 13:59
Analyst: KB

Date Collected: 10/29/12 13:10
Date Received: 10/30/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	85		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	95		30-150

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-03
Client ID: MW-6R
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/12 14:12
Analyst: KB

Date Collected: 10/29/12 13:59
Date Received: 10/30/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.110	0.045	1
Aroclor 1260	ND		ug/l	0.110	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	80		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	88		30-150

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-04
Client ID: MW-18
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/12 14:25
Analyst: KB

Date Collected: 10/29/12 15:00
Date Received: 10/30/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.109	0.045	1
Aroclor 1260	ND		ug/l	0.109	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	78		30-150
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	91		30-150

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**SAMPLE RESULTS**

Lab ID: L1219625-05
Client ID: 102912-DUP
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/12 14:38
Analyst: KB

Date Collected: 10/29/12 00:00
Date Received: 10/30/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.122	0.050	1
Aroclor 1260	ND		ug/l	0.122	0.046	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	78		30-150
2,4,5,6-Tetrachloro-m-xylene	75		30-150
Decachlorobiphenyl	87		30-150

Project Name: 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/01/12 12:41
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 10/31/12 08:04
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/12

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG570872-1					
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	70		30-150
Decachlorobiphenyl	79		30-150
2,4,5,6-Tetrachloro-m-xylene	71		30-150
Decachlorobiphenyl	95		30-150

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG570872-4 WG570872-5 QC Sample: L1219625-02 Client ID: MW-13A												
Aroclor 1016	ND	4.17	3.60	86		3.55	85		40-140	1		50
Aroclor 1260	ND	4.17	3.42	82		3.43	82		40-140	0		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150
Decachlorobiphenyl	88		88		30-150
2,4,5,6-Tetrachloro-m-xylene	75		76		30-150
Decachlorobiphenyl	99		100		30-150

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2200 BLEECKER STREET**Lab Number:** L1219625**Project Number:** DANA 01.12.02**Report Date:** 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG570872-2 WG570872-3								
Aroclor 1016	87		90		40-140	3		50
Aroclor 1260	72		81		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	68		72		30-150
Decachlorobiphenyl	82		92		30-150
2,4,5,6-Tetrachloro-m-xylene	67		71		30-150
Decachlorobiphenyl	94		105		30-150

METALS

Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

SAMPLE RESULTS

Lab ID: L1219625-01

Date Collected: 10/29/12 12:25

Client ID: MW-14

Date Received: 10/30/12

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:49	EPA 3005A	1,6020A	AK
Copper, Total	0.0098		mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 18:49	EPA 3005A	1,6020A	AK
Lead, Total	0.0007	J	mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:49	EPA 3005A	1,6020A	AK
Zinc, Total	0.0459		mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 18:49	EPA 3005A	1,6020A	AK



Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

SAMPLE RESULTS

Lab ID: L1219625-02

Date Collected: 10/29/12 13:10

Client ID: MW-13A

Date Received: 10/30/12

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:36	EPA 3005A	1,6020A	AK
Copper, Total	0.0003	J	mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 18:36	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:36	EPA 3005A	1,6020A	AK
Zinc, Total	0.0085	J	mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 18:36	EPA 3005A	1,6020A	AK



Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

SAMPLE RESULTS

Lab ID: L1219625-03

Date Collected: 10/29/12 13:59

Client ID: MW-6R

Date Received: 10/30/12

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:55	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 18:55	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 18:55	EPA 3005A	1,6020A	AK
Zinc, Total	0.0106		mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 18:55	EPA 3005A	1,6020A	AK



Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

SAMPLE RESULTS

Lab ID: L1219625-04

Date Collected: 10/29/12 15:00

Client ID: MW-18

Date Received: 10/30/12

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.0002	J	mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 19:00	EPA 3005A	1,6020A	AK
Copper, Total	0.0005	J	mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 19:00	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 19:00	EPA 3005A	1,6020A	AK
Zinc, Total	0.0092	J	mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 19:00	EPA 3005A	1,6020A	AK



Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

SAMPLE RESULTS

Lab ID: L1219625-05

Date Collected: 10/29/12 00:00

Client ID: 102912-DUP

Date Received: 10/30/12

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 19:06	EPA 3005A	1,6020A	AK
Copper, Total	0.0006	J	mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 19:06	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 19:06	EPA 3005A	1,6020A	AK
Zinc, Total	0.0107		mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 19:06	EPA 3005A	1,6020A	AK



Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG571678-1										
Chromium, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 17:29	1,6020A	AK
Copper, Total	0.0009	J	mg/l	0.0010	0.0001	1	11/03/12 12:55	11/03/12 17:29	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	11/03/12 12:55	11/03/12 17:29	1,6020A	AK
Zinc, Total	ND		mg/l	0.0100	0.0012	1	11/03/12 12:55	11/03/12 17:29	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Project Number: DANA 01.12.02

Lab Number: L1219625

Report Date: 11/06/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG571678-2								
Chromium, Total	94		-		80-120	-		
Copper, Total	104		-		80-120	-		
Lead, Total	103		-		80-120	-		
Zinc, Total	110		-		80-120	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER STREET

Lab Number: L1219625

Project Number: DANA 01.12.02

Report Date: 11/06/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG571678-3 WG571678-4 QC Sample: L1219625-02 Client ID: MW-13A												
Chromium, Total	0.0003J	0.2	0.2040	102		0.1995	100		80-120	2		20
Copper, Total	0.0003J	0.25	0.2639	106		0.2548	102		80-120	4		20
Lead, Total	ND	0.51	0.5273	103		0.5353	105		80-120	2		20
Zinc, Total	0.0085J	0.5	0.5212	104		0.5585	112		80-120	7		20

Project Name: 2200 BLEECKER STREET**Project Number:** DANA 01.12.02**Lab Number:** L1219625**Report Date:** 11/06/12**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219625-01A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-01B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-01C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-01D	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-01E	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-02A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02D	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02E	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02F	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02G	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02H	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02I	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-02J	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-02K	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-02L	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-02M	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-02N	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-02O	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-03A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-03B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-03C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: 2200 BLEECKER STREET**Project Number:** DANA 01.12.02**Lab Number:** L1219625**Report Date:** 11/06/12**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1219625-03D	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-03E	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-04A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-04B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-04C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-04D	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-04E	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-05A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-05B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-05C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-05D	Amber 1000ml unpreserved	A	7	2.6	Y	Absent	NYTCL-8082-1200ML(7)
L1219625-05E	Plastic 500ml HNO3 preserved	A	<2	2.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1219625-06A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1219625-06B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)

Container Comments

L1219625-01D

L1219625-02J

L1219625-02K

L1219625-02L

L1219625-03D

L1219625-04D

L1219625-05D

*Values in parentheses indicate holding time in days



Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers



Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

Data Qualifiers

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



Project Name: 2200 BLEECKER STREET
Project Number: DANA 01.12.02

Lab Number: L1219625
Report Date: 11/06/12

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab:

10/30/12

ALPHA Job #: 21219625

#



WESTBORO, MA
TEL: 508-896-9220
FAX: 508-896-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3286

Client Information

Client: Synapse Risk Management

Address: 360 Erie Blvd East

Syracuse, NY 13202

Phone: 315.475.3700

Fax: 315.475.3780

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: 2200 Blackwelder St

Project Location: Utica, NY

Project #: DALLA01.12.02

Project Manager: Roger Creighton

ALPHA Quote #:

Turn-Around Time

Standard

Date Due: 11/13/12 Time:

☐ RUSH (only confirmed if pre-approved)

Report Information - Data Deliverables

☐ FAX
☐ ADEX
☒ EMAIL
☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

MDOEC

Criteria

Billing Information

☐ Same as Client info

PO #:

SAMPLE HANDLING

Filtration

☐ Done
☐ Not needed
☐ Lab to do
☐ Preservation
☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials

19625	1 MW-14	10/21/12	12:25	GW	(RB)

	2 MW-13A		13:10		

	2 MW-13A MS/MSD		13:10		

	3 MW-6R		13:59		

	4 MW-1B		15:00		

	5 102912-Dig				

	6 Top Blank		12:00		

Relinquished By:	Date/Time	Container Type	Preservative
(Signature)	10/24/12 17:07	YFA	CEA

Received By:	Date/Time
(Signature)	10-29-12/1707

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1305071
Client:	Synapse Risk Management, LLC 360 Erie Blvd. East Syracuse, NY 13202
ATTN:	Roger Creighton
Phone:	(315) 475-3700
Project Name:	2200 BLEECKER SEMI-ANNUAL GW
Project Number:	DANA 01-13:02
Report Date:	04/03/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1305071-01	MW-6R	2200 BLEECKER ST, UTICA, NY	03/26/13 12:55
L1305071-02	MW-13A	2200 BLEECKER ST, UTICA, NY	03/26/13 11:45
L1305071-03	MW-18	2200 BLEECKER ST, UTICA, NY	03/26/13 13:55
L1305071-04	032613-DUPLICATE	2200 BLEECKER ST, UTICA, NY	03/26/13 00:00
L1305071-05	TRIP BLANK	2200 BLEECKER ST, UTICA, NY	03/26/13 00:00

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was analyzed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cynthia McQueen

Title: Technical Director/Representative

Date: 04/03/13

ORGANICS

VOLATILES

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-01
 Client ID: MW-6R
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/29/13 13:24
 Analyst: MM

Date Collected: 03/26/13 12:55
 Date Received: 03/26/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-02
 Client ID: MW-13A
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/29/13 13:57
 Analyst: MM

Date Collected: 03/26/13 11:45
 Date Received: 03/26/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-03
 Client ID: MW-18
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/29/13 14:30
 Analyst: MM

Date Collected: 03/26/13 13:55
 Date Received: 03/26/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	9.9		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	106		70-130

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-04
 Client ID: 032613-DUPLICATE
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/29/13 15:02
 Analyst: MM

Date Collected: 03/26/13 00:00
 Date Received: 03/26/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	9.8		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-05
 Client ID: TRIP BLANK
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/29/13 12:52
 Analyst: MM

Date Collected: 03/26/13 00:00
 Date Received: 03/26/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	112		70-130

Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/29/13 10:42
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG598635-3					
Vinyl chloride	ND		ug/l	1.0	0.33
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG598635-1 WG598635-2								
Vinyl chloride	84		78		55-140	7		20
trans-1,2-Dichloroethene	97		92		70-130	5		20
Trichloroethene	99		94		70-130	5		20
cis-1,2-Dichloroethene	90		90		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		105		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	107		107		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG598635-4 WG598635-5 QC Sample: L1305071-01 Client ID: MW-6R

Vinyl chloride	ND	10	9.2	92		9.4	94		55-140	2		20
trans-1,2-Dichloroethene	ND	10	10	100		10	100		70-130	0		20
Trichloroethene	ND	10	9.7	97		9.8	98		70-130	1		20
cis-1,2-Dichloroethene	ND	10	9.1	91		9.8	98		70-130	7		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	110		109		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	108		105		70-130
Toluene-d8	94		104		70-130

PCBS

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-01
 Client ID: MW-6R
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 03/29/13 12:12
 Analyst: KB

Date Collected: 03/26/13 12:55
 Date Received: 03/26/13
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 03/28/13 11:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/28/13
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/28/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	74		30-150
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	64		30-150

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-02
 Client ID: MW-13A
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 03/29/13 12:25
 Analyst: KB

Date Collected: 03/26/13 11:45
 Date Received: 03/26/13
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 03/28/13 11:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/28/13
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/28/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	97		30-150
2,4,5,6-Tetrachloro-m-xylene	84		30-150
Decachlorobiphenyl	84		30-150

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-03
 Client ID: MW-18
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 03/29/13 12:38
 Analyst: KB

Date Collected: 03/26/13 13:55
 Date Received: 03/26/13
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 03/28/13 11:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/28/13
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/28/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	87		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	75		30-150

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-04
 Client ID: 032613-DUPLICATE
 Sample Location: 2200 BLEECKER ST, UTICA, NY
 Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 03/29/13 12:52
 Analyst: KB

Date Collected: 03/26/13 00:00
 Date Received: 03/26/13
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 03/28/13 11:44
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/28/13
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/28/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1254	ND		ug/l	0.083	0.034	1
Aroclor 1260	ND		ug/l	0.083	0.032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	83		30-150
2,4,5,6-Tetrachloro-m-xylene	74		30-150
Decachlorobiphenyl	72		30-150

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/29/13 11:07
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/28/13 11:44
Cleanup Method1: EPA 3665A
Cleanup Date1: 03/28/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 03/28/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG598081-1					
Aroclor 1254	ND		ug/l	0.083	0.034
Aroclor 1260	ND		ug/l	0.083	0.032

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	97		30-150
2,4,5,6-Tetrachloro-m-xylene	80		30-150
Decachlorobiphenyl	83		30-150

Matrix Spike Analysis Batch Quality Control

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG598081-4 WG598081-5 QC Sample: L1305071-01 Client ID: MW-6R												
Aroclor 1016	ND	2.6	2.16	83		2.06	79		40-140	5		50
Aroclor 1260	ND	2.6	1.87	72		1.99	76		40-140	6		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,5,6-Tetrachloro-m-xylene	78		85		30-150
Decachlorobiphenyl	83		87		30-150
2,4,5,6-Tetrachloro-m-xylene	78		84		30-150
Decachlorobiphenyl	72		75		30-150

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG598081-2 WG598081-3								
Aroclor 1016	83		81		40-140	3		50
Aroclor 1260	81		80		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150
Decachlorobiphenyl	97		99		30-150
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150
Decachlorobiphenyl	89		87		30-150

METALS

Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13**SAMPLE RESULTS****Lab ID:** L1305071-01**Date Collected:** 03/26/13 12:55**Client ID:** MW-6R**Date Received:** 03/26/13**Sample Location:** 2200 BLEECKER ST, UTICA, NY**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00043	J	mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:11	EPA 3005A	1,6020A	BM
Copper, Total	0.00040	J	mg/l	0.00100	0.0001	1	03/27/13 12:18	03/29/13 21:11	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:11	EPA 3005A	1,6020A	BM
Zinc, Total	0.01555		mg/l	0.01000	0.0012	1	03/27/13 12:18	03/29/13 21:11	EPA 3005A	1,6020A	BM



Project Name: 2200 BLEECKER SEMI-ANNUAL GW

Lab Number: L1305071

Project Number: DANA 01-13:02

Report Date: 04/03/13

SAMPLE RESULTS

Lab ID: L1305071-02

Date Collected: 03/26/13 11:45

Client ID: MW-13A

Date Received: 03/26/13

Sample Location: 2200 BLEECKER ST, UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00024	J	mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:42	EPA 3005A	1,6020A	BM
Copper, Total	0.00048	J	mg/l	0.00100	0.0001	1	03/27/13 12:18	03/29/13 21:42	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:42	EPA 3005A	1,6020A	BM
Zinc, Total	0.01512		mg/l	0.01000	0.0012	1	03/27/13 12:18	03/29/13 21:42	EPA 3005A	1,6020A	BM



Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13**SAMPLE RESULTS**

Lab ID: L1305071-03

Date Collected: 03/26/13 13:55

Client ID: MW-18

Date Received: 03/26/13

Sample Location: 2200 BLEECKER ST, UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:48	EPA 3005A	1,6020A	BM
Copper, Total	0.00067	J	mg/l	0.00100	0.0001	1	03/27/13 12:18	03/29/13 21:48	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:48	EPA 3005A	1,6020A	BM
Zinc, Total	0.01554		mg/l	0.01000	0.0012	1	03/27/13 12:18	03/29/13 21:48	EPA 3005A	1,6020A	BM



Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13**SAMPLE RESULTS****Lab ID:** L1305071-04**Date Collected:** 03/26/13 00:00**Client ID:** 032613-DUPLICATE**Date Received:** 03/26/13**Sample Location:** 2200 BLEECKER ST, UTICA, NY**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00035	J	mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:55	EPA 3005A	1,6020A	BM
Copper, Total	0.00088	J	mg/l	0.00100	0.0001	1	03/27/13 12:18	03/29/13 21:55	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 21:55	EPA 3005A	1,6020A	BM
Zinc, Total	0.01605		mg/l	0.01000	0.0012	1	03/27/13 12:18	03/29/13 21:55	EPA 3005A	1,6020A	BM



Project Name: 2200 BLEECKER SEMI-ANNUAL GW

Lab Number: L1305071

Project Number: DANA 01-13:02

Report Date: 04/03/13

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG597804-1										
Chromium, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 20:15	1,6020A	BM
Copper, Total	0.00023	J	mg/l	0.00100	0.0001	1	03/27/13 12:18	03/29/13 20:15	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.0002	1	03/27/13 12:18	03/29/13 20:15	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.0012	1	03/27/13 12:18	03/29/13 20:15	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis

Batch Quality Control

Project Name: 2200 BLEECKER SEMI-ANNUAL GW

Lab Number: L1305071

Project Number: DANA 01-13:02

Report Date: 04/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG597804-2								
Chromium, Total	94		-		80-120	-		
Copper, Total	104		-		80-120	-		
Lead, Total	101		-		80-120	-		
Zinc, Total	111		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: 2200 BLEECKER SEMI-ANNUAL GW
Project Number: DANA 01-13:02

Lab Number: L1305071
Report Date: 04/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG597804-3 WG597804-4 QC Sample: L1305071-01 Client ID: MW-6R												
Chromium, Total	0.00043J	0.2	0.1865	93		0.1874	94		80-120	0		20
Copper, Total	0.00040J	0.25	0.2584	103		0.2603	104		80-120	1		20
Lead, Total	ND	0.51	0.5138	101		0.5057	99		80-120	2		20
Zinc, Total	0.01555	0.5	0.5619	109		0.5584	108		80-120	1		20

Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Lab Number:** L1305071**Project Number:** DANA 01-13:02**Report Date:** 04/03/13**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1305071-01A	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-01B	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-01C	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-01D	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01E	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01F	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01G	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01H	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01I	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-01J	Plastic 500ml HNO3 preserved	A	<2	3.2	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1305071-01K	Plastic 500ml HNO3 preserved	B	<2	2.5	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1305071-01L	Plastic 500ml HNO3 preserved	B	<2	2.5	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1305071-01M	Amber 1000ml unpreserved	A	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-01N	Amber 1000ml unpreserved	A	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-01O	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-01P	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-01Q	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-01R	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-02A	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-02B	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-02C	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-02D	Plastic 500ml HNO3 preserved	B	<2	2.5	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)

*Values in parentheses indicate holding time in days



Project Name: 2200 BLEECKER SEMI-ANNUAL GW**Project Number:** DANA 01-13:02**Lab Number:** L1305071**Report Date:** 04/03/13**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1305071-02E	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-02F	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-03A	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-03B	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-03C	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1305071-03D	Plastic 500ml HNO3 preserved	B	<2	2.5	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1305071-03E	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-03F	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-04A	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-04B	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-04C	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-04D	Plastic 500ml HNO3 preserved	A	<2	3.2	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1305071-04E	Amber 1000ml unpreserved	A	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-04F	Amber 1000ml unpreserved	A	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1305071-05A	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1305071-05B	Vial HCl preserved	A	N/A	3.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers



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Data Qualifiers

due to obvious interference.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers



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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; Colilert/OT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. *Organic Parameters:* SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. *Organic Parameters:* EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. *Organic Parameters:* EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisison on Environmental Quality Certificate/Lab ID: T104704476. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CI-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Page 38 of 40 *Solid & Hazardous Waste* (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



WESTBORO, MA
TEL: 508-898-8220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 3/26/13

Serial No: 04031310:50

ALPHA Job #: L1305071

Client Information

Client: Synapse Risk Management

Address: 360 Erie Blvd. East
Syracuse, NY 13202

Phone: (315)-475-3700

Fax:

Email: RCreighton@synapsellc.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: 2200 Bleeker Semi-Annual G.W.

Project Location: 2200 Bleeker St, Utica, NY

Project #: DANA 01-13:02

Project Manager: Roger Creighton

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 4/9/13

Time:

Report Information - Data Deliverables

☐ FAX

☒ EMAIL

☐ ADEX

☐ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State /Fed Program

Criteria

NYSDDEC

ANALYSIS
VOCs - 8260B
Total Metals 29, Pb, Cd, Cr
PCB - 1254 + 1260

SAMPLE HANDLING

Filtration _____

☐ Done

☐ Not needed

☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials													Sample Specific Comments	
		Date	Time																
05071.1	MW-6R(M5,MSD)	3/26/13	12:55	GW	RC	9	3	6										*TCE, Cis, Trans DCE, VC	
2	MW-13a	3/26/13	11:45	GW	RC	3	1	2										"	
3	MW-18	3/26/13	13:55	GW	RC	3	1	2										"	
4	032613 - Duplicate	3/26/13		GW	RC	3	1	2										"	

Container Type V P A

Preservative B C A

Relinquished By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1321838
Client:	Synapse Risk Management, LLC 360 Erie Blvd. East Syracuse, NY 13202
ATTN:	Roger Creighton
Phone:	(315) 475-3700
Project Name:	UHC-SA-GROUNDWATER
Project Number:	DANA 01.13.02
Report Date:	11/12/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: UHC-SA-GROUNDWATER
Project Number: DANA 01.13.02

Lab Number: L1321838
Report Date: 11/12/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1321838-01	MW-14	UTICA, NY	10/29/13 11:45
L1321838-02	MW-13A	UTICA, NY	10/29/13 12:00
L1321838-03	MW-6R	UTICA, NY	10/29/13 12:15
L1321838-04	MW-18	UTICA, NY	10/29/13 15:08
L1321838-05	102913-DUP	UTICA, NY	10/29/13 00:00
L1321838-06	TRIP BLANK	UTICA, NY	10/29/13 11:04

Project Name: UHC-SA-GROUNDWATER
Project Number: DANA 01.13.02

Lab Number: L1321838
Report Date: 11/12/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: UHC-SA-GROUNDWATER
Project Number: DANA 01.13.02

Lab Number: L1321838
Report Date: 11/12/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

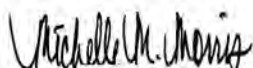
A Trip Blank was listed on the Chain of Custody, but not received in the laboratory.

PCBs

The surrogate recoveries for L1321838-03 were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (29%) and decachlorobiphenyl (28%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 11/12/13

ORGANICS

VOLATILES

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-01

Date Collected: 10/29/13 11:45

Client ID: MW-14

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/10/13 02:20

Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-02

Date Collected: 10/29/13 12:00

Client ID: MW-13A

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/10/13 02:52

Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	105		70-130

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-03

Date Collected: 10/29/13 12:15

Client ID: MW-6R

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 11/10/13 03:24

Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Vinyl chloride	ND		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	105		70-130

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-04
Client ID: MW-18
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/10/13 03:56
Analyst: TR

Date Collected: 10/29/13 15:08
Date Received: 10/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	21		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-05
Client ID: 102913-DUP
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/10/13 04:28
Analyst: TR

Date Collected: 10/29/13 00:00
Date Received: 10/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	20		ug/l	1.0	0.33	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	106		70-130

Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/09/13 21:00
 Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG650720-3					
Vinyl chloride	ND		ug/l	1.0	0.33
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Project Number: DANA 01.13.02

Lab Number: L1321838

Report Date: 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG650720-1 WG650720-2								
Methylene chloride	115		107		70-130	7		20
1,1-Dichloroethane	104		98		70-130	6		20
Chloroform	105		98		70-130	7		20
2-Chloroethylvinyl ether	95		95		70-130	0		20
Carbon tetrachloride	100		94		63-132	6		20
1,2-Dichloropropane	104		100		70-130	4		20
Dibromochloromethane	89		86		63-130	3		20
1,1,2-Trichloroethane	107		104		70-130	3		20
Tetrachloroethene	93		87		70-130	7		20
Chlorobenzene	99		94		75-130	5		20
Trichlorofluoromethane	122		112		62-150	9		20
1,2-Dichloroethane	111		107		70-130	4		20
1,1,1-Trichloroethane	101		94		67-130	7		20
Bromodichloromethane	105		100		67-130	5		20
trans-1,3-Dichloropropene	103		100		70-130	3		20
cis-1,3-Dichloropropene	100		96		70-130	4		20
1,1-Dichloropropene	100		95		70-130	5		20
Bromoform	98		97		54-136	1		20
1,1,2,2-Tetrachloroethane	117		115		67-130	2		20
Benzene	103		97		70-130	6		20
Toluene	100		94		70-130	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: UHC-SA-GROUNDWATER

Project Number: DANA 01.13.02

Lab Number: L1321838

Report Date: 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG650720-1 WG650720-2								
Ethylbenzene	100		94		70-130	6		20
Chloromethane	108		101		64-130	7		20
Bromomethane	104		100		39-139	4		20
Vinyl chloride	118		108		55-140	9		20
Chloroethane	131		122		55-138	7		20
1,1-Dichloroethene	113		104		61-145	8		20
trans-1,2-Dichloroethene	112		81		70-130	32	Q	20
Trichloroethene	102		95		70-130	7		20
1,2-Dichlorobenzene	96		93		70-130	3		20
1,3-Dichlorobenzene	95		92		70-130	3		20
1,4-Dichlorobenzene	94		91		70-130	3		20
Methyl tert butyl ether	87		82		63-130	6		20
p/m-Xylene	95		89		70-130	7		20
o-Xylene	94		89		70-130	5		20
cis-1,2-Dichloroethene	95		92		70-130	3		20
Dibromomethane	104		101		70-130	3		20
1,2,3-Trichloropropane	118		116		64-130	2		20
Acrylonitrile	112		110		70-130	2		20
Isopropyl Ether	100		96		70-130	4		20
tert-Butyl Alcohol	104		95		70-130	9		20
Styrene	97		91		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG650720-1 WG650720-2								
Dichlorodifluoromethane	104		95		36-147	9		20
Acetone	137		130		58-148	5		20
Carbon disulfide	108		99		51-130	9		20
2-Butanone	112		108		63-138	4		20
Vinyl acetate	109		106		70-130	3		20
4-Methyl-2-pentanone	102		99		59-130	3		20
2-Hexanone	97		97		57-130	0		20
Acrolein	144		135		40-160	6		20
Bromochloromethane	96		92		70-130	4		20
2,2-Dichloropropane	100		92		63-133	8		20
1,2-Dibromoethane	100		97		70-130	3		20
1,3-Dichloropropane	104		102		70-130	2		20
1,1,1,2-Tetrachloroethane	101		96		64-130	5		20
Bromobenzene	94		93		70-130	1		20
n-Butylbenzene	94		90		53-136	4		20
sec-Butylbenzene	95		90		70-130	5		20
tert-Butylbenzene	92		88		70-130	4		20
o-Chlorotoluene	100		96		70-130	4		20
p-Chlorotoluene	99		95		70-130	4		20
1,2-Dibromo-3-chloropropane	105		106		41-144	1		20
Hexachlorobutadiene	82		77		63-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Project Number: DANA 01.13.02

Lab Number: L1321838

Report Date: 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG650720-1 WG650720-2								
Isopropylbenzene	95		92		70-130	3		20
p-Isopropyltoluene	90		84		70-130	7		20
Naphthalene	95		112		70-130	16		20
n-Propylbenzene	98		94		69-130	4		20
1,2,3-Trichlorobenzene	90		100		70-130	11		20
1,2,4-Trichlorobenzene	84		92		70-130	9		20
1,3,5-Trimethylbenzene	98		92		64-130	6		20
1,2,4-Trimethylbenzene	94		91		70-130	3		20
Methyl Acetate	140	Q	121		70-130	15		20
Ethyl Acetate	109		101		70-130	8		20
Cyclohexane	105		98		70-130	7		20
Ethyl-Tert-Butyl-Ether	96		92		70-130	4		20
Tertiary-Amyl Methyl Ether	93		90		66-130	3		20
1,4-Dioxane	140		134		56-162	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	122		111		70-130	9		20
1,4-Diethylbenzene	87		82		70-130	6		20
4-Ethyltoluene	95		90		70-130	5		20
1,2,4,5-Tetramethylbenzene	110		128		70-130	15		20
Ethyl ether	119		112		59-134	6		20
trans-1,4-Dichloro-2-butene	122		118		70-130	3		20
Methyl cyclohexane	101		93		70-130	8		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG650720-1 WG650720-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	98		101		70-130
Dibromofluoromethane	103		103		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER
Project Number: DANA 01.13.02

Lab Number: L1321838
Report Date: 11/12/13

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG650720-4 WG650720-5 QC Sample: L1321838-03 Client ID: MW-6R												
Vinyl chloride	ND	10	12	121		14	140		55-140	15		20
trans-1,2-Dichloroethene	ND	10	11	109		11	114		70-130	0		20
Trichloroethene	ND	10	10	104		12	117		70-130	18		20
cis-1,2-Dichloroethene	ND	10	9.1	91		10	106		70-130	9		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,2-Dichloroethane-d4	118		117		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	107		106		70-130
Toluene-d8	100		99		70-130

PCBS

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-01
Client ID: MW-14
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/13 16:38
Analyst: KB

Date Collected: 10/29/13 11:45
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/30/13 11:49
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-02
Client ID: MW-13A
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/13 16:51
Analyst: KB

Date Collected: 10/29/13 12:00
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/30/13 11:49
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-03
Client ID: MW-6R
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/13 17:05
Analyst: KB

Date Collected: 10/29/13 12:15
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/30/13 11:49
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	29	Q	30-150	A
Decachlorobiphenyl	28	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	30		30-150	B
Decachlorobiphenyl	32		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-03 **RE**
Client ID: MW-6R
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/09/13 23:11
Analyst: KB

Date Collected: 10/29/13 12:15
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 11/08/13 22:01
Cleanup Method1: EPA 3665A
Cleanup Date1: 11/09/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 11/09/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-04
Client ID: MW-18
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/13 17:18
Analyst: KB

Date Collected: 10/29/13 15:08
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/30/13 11:49
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-05
Client ID: 102913-DUP
Sample Location: UTICA, NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 11/01/13 17:31
Analyst: KB

Date Collected: 10/29/13 00:00
Date Received: 10/29/13
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/30/13 11:49
Cleanup Method1: EPA 3665A
Cleanup Date1: 10/31/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 11/01/13 15:32
 Analyst: KB

Extraction Method: EPA 3510C
 Extraction Date: 10/30/13 11:49
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 10/31/13
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 10/31/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG648116-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	55		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Project Number: DANA 01.13.02

Lab Number: L1321838

Report Date: 11/12/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG648116-4 WG648116-5 QC Sample: L1321838-03 Client ID:													
Aroclor 1016	ND	2.6	1.29	50		1.51	58		40-140	16		50	A
Aroclor 1260	ND	2.6	1.31	50		1.53	59		40-140	15		50	A

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	46		52		30-150	A
Decachlorobiphenyl	39		47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		49		30-150	B
Decachlorobiphenyl	41		51		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG648116-2 WG648116-3									
Aroclor 1016	51		45		40-140	13		50	A
Aroclor 1260	53		52		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		44		30-150	A
Decachlorobiphenyl	45		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		41		30-150	B
Decachlorobiphenyl	47		54		30-150	B

METALS

Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

SAMPLE RESULTS

Lab ID: L1321838-01

Date Collected: 10/29/13 11:45

Client ID: MW-14

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.01379		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:40	EPA 3005A	1,6020A	BM
Copper, Total	0.01908		mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 18:40	EPA 3005A	1,6020A	BM
Lead, Total	0.01254		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:40	EPA 3005A	1,6020A	BM
Zinc, Total	0.05085		mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 18:40	EPA 3005A	1,6020A	BM



Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

SAMPLE RESULTS

Lab ID: L1321838-02

Date Collected: 10/29/13 12:00

Client ID: MW-13A

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00205		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:46	EPA 3005A	1,6020A	BM
Copper, Total	0.00434		mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 18:46	EPA 3005A	1,6020A	BM
Lead, Total	0.00232		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:46	EPA 3005A	1,6020A	BM
Zinc, Total	0.02092		mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 18:46	EPA 3005A	1,6020A	BM



Project Name: UHC-SA-GROUNDWATER**Lab Number:** L1321838**Project Number:** DANA 01.13.02**Report Date:** 11/12/13**SAMPLE RESULTS**

Lab ID: L1321838-03

Date Collected: 10/29/13 12:15

Client ID: MW-6R

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00109		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 17:57	EPA 3005A	1,6020A	BM
Copper, Total	0.00103		mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 17:57	EPA 3005A	1,6020A	BM
Lead, Total	0.00034	J	mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 17:57	EPA 3005A	1,6020A	BM
Zinc, Total	0.00466	J	mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 17:57	EPA 3005A	1,6020A	BM



Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

SAMPLE RESULTS

Lab ID: L1321838-04

Date Collected: 10/29/13 15:08

Client ID: MW-18

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00105		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:53	EPA 3005A	1,6020A	BM
Copper, Total	0.00191		mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 18:53	EPA 3005A	1,6020A	BM
Lead, Total	0.00029	J	mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:53	EPA 3005A	1,6020A	BM
Zinc, Total	0.01099		mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 18:53	EPA 3005A	1,6020A	BM



Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

SAMPLE RESULTS

Lab ID: L1321838-05

Date Collected: 10/29/13 00:00

Client ID: 102913-DUP

Date Received: 10/29/13

Sample Location: UTICA, NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Chromium, Total	0.00104		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:59	EPA 3005A	1,6020A	BM
Copper, Total	0.00149		mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 18:59	EPA 3005A	1,6020A	BM
Lead, Total	0.00024	J	mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 18:59	EPA 3005A	1,6020A	BM
Zinc, Total	0.00810	J	mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 18:59	EPA 3005A	1,6020A	BM



Project Name: UHC-SA-GROUNDWATER

Lab Number: L1321838

Project Number: DANA 01.13.02

Report Date: 11/12/13

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG650004-1										
Chromium, Total	0.00070	J	mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 17:44	1,6020A	BM
Copper, Total	0.00010	J	mg/l	0.00100	0.00010	1	11/06/13 17:49	11/07/13 17:44	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	11/06/13 17:49	11/07/13 17:44	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	11/06/13 17:49	11/07/13 17:44	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: UHC-SA-GROUNDWATER

Project Number: DANA 01.13.02

Lab Number: L1321838

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG650004-2								
Chromium, Total	96		-		80-120	-		
Copper, Total	97		-		80-120	-		
Lead, Total	98		-		80-120	-		
Zinc, Total	102		-		80-120	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: UHC-SA-GROUNDWATER

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG650004-3 WG650004-4 QC Sample: L1321838-03 Client ID: MW-6R												
Chromium, Total	0.00109	0.2	0.1832	91		0.1932	96		80-120	5		20
Copper, Total	0.00103	0.25	0.2358	94		0.2447	97		80-120	4		20
Lead, Total	0.00034J	0.51	0.4809	94		0.4959	97		80-120	3		20
Zinc, Total	0.00466J	0.5	0.5060	101		0.5046	101		80-120	0		20

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1321838-01A	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-01B	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-01C	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-01D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-01E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-01F	Plastic 250ml HNO3 preserved	A	<2	3.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-02A	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-02B	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-02C	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-02D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-02E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-02F	Plastic 250ml HNO3 preserved	A	<2	3.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-03A	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03A1	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03A2	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03B	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03B1	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03B2	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03C	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03C1	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03C2	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-03D	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-03D1	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-03D2	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days



Project Name: UHC-SA-GROUNDWATER**Project Number:** DANA 01.13.02**Lab Number:** L1321838**Report Date:** 11/12/13**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1321838-03E	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-03E1	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-03E2	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-03F	Plastic 250ml HNO3 preserved	B	<2	2.9	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-03F1	Plastic 250ml HNO3 preserved	B	<2	2.9	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-03F2	Plastic 250ml HNO3 preserved	B	<2	2.9	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-04A	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-04B	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-04C	Vial HCl preserved	B	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1321838-04D	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-04E	Amber 1000ml unpreserved	B	7	2.9	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-04F	Plastic 250ml HNO3 preserved	B	<2	2.9	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)
L1321838-05A	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-05B	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-05C	Vial HCl preserved	A	N/A	3.6	Y	Absent	NYTCL-8260(14)
L1321838-05D	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-05E	Amber 1000ml unpreserved	A	7	3.6	Y	Absent	NYTCL-8082-1200ML(7)
L1321838-05F	Plastic 250ml HNO3 preserved	A	<2	3.6	Y	Absent	CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180)

*Values in parentheses indicate holding time in days



Project Name: UHC-SA-GROUNDWATER
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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers



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Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised November 12, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. *Organic Parameters:* ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO₃-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. *Organic Parameters:* (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. *Microbiology Parameters:* SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH₃-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO₃-F, 353.2 for Nitrate-N, SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. *Microbiology Parameters:* (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. *Organic Parameters:* 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500P-E, 4500-S2-D, 4500SO₃-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. *Organic Parameters:* SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. *Organic Parameters:* SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. NELAP Accredited.

Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. *Organic Parameters:* EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, 4500SO₄-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO₃-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. *Organic Parameters:* SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO₃-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH₃-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO₃-F, 353.2, 4500P-E, 4500SO₄-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO₃-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH₃-H, 4500NO₂-B, 4500NO₃-F, 4500S-D, 4500SO₃-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH₃-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NJ-DEP.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisison on Environmental Quality Certificate/Lab ID: T104704476. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. NELAP Accredited.

Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO₃-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500CI-E, 4500F-B, 4500F-C,

4500NH₃-H, 4500NO₂-B, 4500NO₃-F, 4500 SO₃-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO₃-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B**: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix**: Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix**: Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625**: 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix. **EPA 9071**: Total Petroleum Hydrocarbons, Oil & Grease. **EPA 9060** in a soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab:

10/29/13

ALPHA Job #:

L1321838

Client Information

Client: Synapse RSK Management

Address: 360 Erie Blvd East

Syracuse, NY 13202

Phone: 315.475.3700

Fax: 315.475.3780

Email: rcreighton@synapsellc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: UHC-SA-Groundwater

Project Location: Utica, NY

Project #: DANA 01.13.02

Project Manager: Roger Creighton

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)

Date Due:

11/12/13

Time:

Report Information - Data Deliverables

☐ FAX☒ EMAIL☐ ADEx☐ Add'l Deliverables

Billing Information

☐ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State /Fed Program

Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS PCB 8082 T.Metals Cu, Cr, Pb, Zn VOCs, PCE, K, cis/trans 1,2-DCE										TOTAL # BOTTLES
		Date	Time													
21698 01	MW-14	10/29/13		GW	RD	2	1	3								
02	MW-13A					2	1	3								
03	MW-6R MS/MSD					6	3	9								
04	MW-18		15:00			2	1	3								
05	102913-Dup					2	1	3								
06-06	Trip Blank*							1							* hold	

Container Type

A P V

Preservative

A C B

Relinquished By:

Date/Time

10/29/13 16:05

Received By:

Date/Time

10/29/13 16:05

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



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MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/29/13

ALPHA Job #: L1321838

Client Information

Client: Synapse RSK Management
Address: 360 Erie Blvd East
Syracuse, NY 13202
Phone: 315.475.3700
Fax: 315.475.3780
Email: rcreighton@synapsellc.com
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Project Name: UHC-SA-Groundwater
Project Location: Utica, NY
Project #: DANA 01.13.02
Project Manager: Roger Creighton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 11/12/13 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

SAMPLE HANDLING

Filtration _____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments	
		Date	Time														
21698 01	MW-14	10/24/13	1145	GW	RD	2	1	3									
02	MW-13A		1200			2	1	3									
03	MW-6R MS/MSD		1215			6	3	9									
04	MW-18		13:00			2	1	3									
05	102913-Dup					2	1	3									
06-06	Trip Blank*							1								* hold	

Container Type A P V
Preservative A C B

Relinquished By:

Date/Time

Received By:

Date/Time

Relinquished By: [Signature] Date/Time: 10/29/13 16:05
Received By: [Signature] Date/Time: 10/29/13 16:05
Relinquished By: [Signature] Date/Time: 10/29/13 1948
Received By: [Signature] Date/Time: 10/29/13 1948
Relinquished By: [Signature] Date/Time: 10/29/13 2224
Received By: [Signature] Date/Time: 10/29/13 2224

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APPENDIX G
GROUNDWATER TREATMENT SYSTEM INSPECTION LOGS

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014

2012

1/11/12

on site @ 0900
for weekly sampling
System operating OK no alarms
change P1 @ 0910

Sample Effluent @ 0930
pH: 8.48

MH1 05540297

MH2 03072689

PS 1961

Effluent 1614092

BFM: 0072625

EQ @ ~ 1300

off site 0945

Kalman Floyd

1/18/12 on site @ 0915

System OK, no alarms
on site for weekly sampling
change P1² @ 0930

need to replace rubber O
rings on canister filters

Sample effluent @ 1015
PH: ~~8.27~~
8.35

MHI 5583330
MHI 2 03072700
FS 1961
Effluent 16207476
BFM 83070

off site @ 11am

Kathryn Hood

1/24/12 no alarms weather: 35°
P/C

on site @ 0900 w/ Danielle
Berati for weekly sampling
and take down pControl

change P1 @ 0915
Sample effluent @ 0930
PH 8.29

MHI 0560 7558
MHI 2 03072707
FS 1961
Eff 1621655
BFM 91160

Shut off system for
replacement / upgrade of
EOS system
on 1/30/12

K. Hood

1/30/12

Snow squalls 25°

on site @ 0830 w/ Nate from
Paragon

System tested @ 0945 → OK

MH-1 5607608
MH-2 3072707
EFF 16279655

turned control panel on →
MH-1 + MH-2 high

fax to EOS → successful
change P1 @ 10⁰⁰
~~change P1 @ 10⁰⁰~~

changed P1 @ 10¹⁵
MH-1 water is turbid MH-2 OK
changed P2 @ 10²⁵

off site @ 10⁴⁵

System running MH-1, MH-2
High

fatherhood

2/1/2012

Weather: 45° Raining
Onsite for monthly sampling
at 8:45 AM

- System in alarm:

MH-1 High Sump alarm

MH-2 High Sump alarm

EQ tank High Sump alarm

- Reset system to clear EQ
tank high level alarm,
MH-1 and MH-2 began pumping

- Bag filter high pressure alarm
at 8:55 AM, changed P1 and
EQ tank, Pump 6A began
pumping again at 9:05 AM

- Sampled MH-1 at 9:35 AM
pH = 7.35

- Sampled MH-2 at 9:42 AM
pH = 7.05

2/1/2012 (continued)

- Sampled effluent at 9:48 AM
pH = 8.02

- BFM = 0092790

Control Panel Readings

- MH1 = 5619208

MH2 = 3072708

Effluent = 16286124

sump = 1992

- changed P1 and P2 at 10:20 AM
P2 was very clogged, and when
closed - P2 had slight leak. I
tried to tighten numerous times.
(even adjusted o-ring), small drip remains.

- P1 filter pressure $\approx$ 18 psi

- P2 filter pressure $\approx$ 16 psi

- System operating, MH-1 High
and MH-2 High Alarms
still on. System will run
and clear alarms over next few days.

- offsite at 10:45 AM

Daniel Benati

Weather 38° Cloudy

2/7/12 On site @ 0905
MH-2 high alarm on

on site for weekly monitoring
performed site maintenance + cleanup
Changed P1 @ 0945

Sampled Effluent @ 0958
pH: 8.29

BFM 106215

MH1 5677705

MH2 03072717

Effluent 16405444

Sump 1998

note that pumps for MH1 (P1, P2;
and MH2 are on but no
volume coming from MH-1
turned control panel on/off
when I did that MH-1 lights
went off (reset not affecting it)

MH-2 still in high alarm.
Should clear on its own

off site 1020

Ruthyn

Weather PIC 35°
2/14/12 on-site @ 0900
on site for weekly sampling
MH-2 is high alarm

does not appear that any water
is coming from either MH-1 or
MH-2 based on control panel
readings

effluent reads 16430376

MH-1 is in fact pumping a small
amount as water is present @
effluent port

- installed new shelving system

BFM 019010

off site @ 10:30

on site 0920
2/16/12 weather cloudy 34°
on site w/ Mullin and Nale
from Paragon trying to address
system issues

Chris noted that damper switch
on blower fan had moved, we
readjusted and marked w/a
sharpie

Bfm reading 169670
Effluent 16430323
MH-1 and MH-2 pumps

run but no flow is coming
from the pumps to the tanks

power to/from control panel

MH-1 level somewhat low, MH-2
levels are very high

Decided to turn off MH-1 pumps
to let head build up and try to
flush later. Will monitor closely
try to turn on remotely when
high alarm. Also fixed blower window
off site @ w/plywood
0950
Kathryn Ford

2/17/12 sunny 35°

On site @ 0820 ~~0820~~ for monitoring

MH-1 MH-2 high alarms
MH-1 still not pumping @
expected rate

@ arrival BFM 109670
Effluent 16436323

Sample 0845
pH 8.28

MH1 5677745
MH2 3072717

FS 1998

Effluent 16437118

BFM 109760

off site @ 0915

Kathryn Hood

2/23/12 weather cloudy/drizzle 35°

On site @ 0840 am

System is in alarm
MH-1 high

MH-2 high

Air Stripped low pressure

re-set button cleared A/S alarm

Water begins trickling into ED
tank when MH-1 pumps kick on
very limited flow is recorded by
MH-1 flow meter. appears to
come in surges of 5.0-15.6 gpm

change #1 filter @ 0910 am

sampled effluent @ 0935
pH: 8.25

next page
→

MH-2 P4 turned off left MH-1
running. Troubleshooting next week

off site 0945

Kathryn Hood

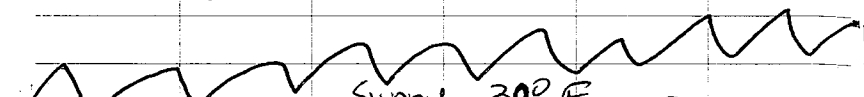
Control panel readings from
2/23/12

MH-1 567758 FS 1998

MH-2 307277 Effluent 16438918

BFM 109960

Kathryn Flood


2/28/12 Sunny 30°F
on site @ 12:40

Call from SDGGS indicated
water was spilling from System
Cells stated from Air Stripper.
~~CHA manually~~ remotely shut down
the system @ approx 11:00.

Upon arrival @ site there was water
on the floor, CHA believes leaking
water was from EQ tank.

MH-1, MH-2, EQ high and Air
Stripper low alarms were on
upon CHA arrival on site.

CHA restarted the system

Changed ~~P2~~ P2 @ 13:00
P1 did not need to be changed
looked almost new (clean)

P4 remains off

collected effluent sample @ 1:25
after system had time to
flush itself
pm 8:20

MH1 5677768

Effluent

MH2 3072717

16442995

FS 2009

BFM 110420

partially closed damper to see if
that helps A/S low alarm issue

off site - 2pm (1400)

Kathryn Flood

60°, Sunny
3/7/11 on site @ 1140 for
monthly sampling

MH-2 in high alarm → V04 has
been turned off

Sampled MH-1 @ 1230
ph: 8.39

Changed P1 @ ~~1245~~ 1245

Sampled effluent @ 1315
ph: 8.32

weed whacked outside

off site @ 1345

Kathryn Flood

3/14/12

Weather 50° Sunny

On site @ 0830 for weekly
sampling and begin system
repair/inspection and pipe flush
with PEC.

MH-2 in high alarm

collect effluent sample @ 0845
ph: 8.36

MH1 5677768

MH2 03072717

Eff 16543683

FS 2005

BPM 121790

PEC + fractank → Adler tank
val truck on site @ 900
PCL plv truck + crew on site @ 930! ^{Big Red}

Pat, Bruce

PEC line cleaning

only ~16" of water in bottom
of manhole 1, vac truck used

confined space entry team used
a 6" gripper / twist plug to block
influent from collection trench

MH-1 P2 → impeller turns

There is water coming in from
underside of 6" influent pipe
into MH-1 from collection trench
expandable twist plug will not prevent
all influent

MH-1 P1 appears fine → impeller
turns even against a stick
both pumps put back together

Start pumping MH-2 @ 12¹⁵
1st offload @ 12⁴⁰

Cut horizontal line from MH-1
and inserted @ T joint. No significant
line ~~scale~~ noted in horizontal pipe

~~2/2/14/12~~ (cont) 3/14/12

12⁵⁵ pm hit reset button on control
panel, MH-2 high alarm is off

ran water from new T joint
to ball valve under MH-1 flow
meter. Inside lines appear to
be clear.

pulled P1 + P2 from MH-1
will be sent to Gould pumps
in Syracuse NY for refurbishing
(attempt to repair)

15:05 back to MH-2 to continue
pumping

Noted. MH-1 P1 connections were
corroded and one wire was disconnected
due to damage. MH-1 P1 / P2 marked
in the field w/ marker / duct tape

3/26/12 8:30 am
4:00 sunny

On site w/ Paragon w/ 1 new 3/4
HP pump, 1/2 HP pump from MH-2

230 volts coming into building
Per PEC (235 coming)

- taking MH-1 P2 ~~out~~ contactor and putting it in P4 place to accommodate the larger size pumps in MH-2
- PEC on site. Bruce w/ vac truck - Nate, Jack Bailey (safety) and electrician Pete
- MH-1 P2 locked out / tagged out

MH-2 is full, vac truck pumps it out.

Apparently the correct areas were not plugged last week.

MH-2 turned on, no water to ED tank. H₂O is making it to the clean out in HTC front room. Cannot tell pressure. Going to try and locate a pressure gauge.

Gauge installed reads ~ 1 1/2 when MH-2 P4 turned on.

pumping out MH-1 to install former P4 (cleaned/inspected 1/2 HP pump) in MH-1 P1 slot

- MH-1 locked out prior to work
- removed old male/female connectors and will direct wire the pumps
- MH-1 pump (1/2 HP) runs well (55-70 gpm) system functioning fine.
- Bruce states approx 15,000 gallons in the frac tank
- leaving MH-2 running to test for outbursts and/or wait for high alarm if water is not pumping out into the ground

BIM 122060

MH1 5678436

MH2 3072717

CFF 10545948

FS 2032

off site 1530

R. Hood

3/28/12

scattered showers
mid 30's

On site @ 9⁰⁰

MH1 high, MH2 high

big filter high pressure alarm

- Changed P1, P2 @ 915
filters were very saturated
and appeared darker than normal
- gaskets purchased for canister filters
a small amount of water noted ^{do not} _{fit}
@ MH2 sampling port
no regular flow ~~to~~ from MH2
is noted, no change on flowmeter

Sampled effluent @ 10⁰⁰
pH 8.30

System Parameters

BPM 0125770

MH1 05684960

MH2 03072717

Effluent 16573840

FS 2032

4/3/12

on site 230

MH-2 is high alarm
changed P1 filter @ 245

Some water again noted @
MH-2 sampling port (ext no
change in flowmeter)

Sampled MH-1 effluent @
1500
pH: 7.42

Sample effluent @ 1520
pH 8.45

MH1 5707656

MH2 -

BPM 128660

FS 2037

Effluent 16598450

off site @ 415

left MH-2 pH of

Kathryn Good

4/12/12 52° P/C
on site 1330

On site for weekly sampling
MH-2 in high alarm

did not change P1, was very clean
replaced gaskets on P1

Sampled ~~the~~ Effluent @ 1350
ph 7.47

MH 1 5729639

MH 2 3072717

Effluent 16622413

FB 2043

BTM 131440

took measurements of MH-2 pump
run

off site 1950

Kathryn Hord

4/19/12

PEC: Doug, Mike, Bruce, Jack

on site @ 0825

PEC on site to install pump in
MH-2 and decant the frac tank

MH-2 pumped out by vac truck.
Out of space in frac tank so H₂O
pumped directly into EQ. finish @ 101
1st load

Charged P2 ~~off site~~ @ 0840 am

Charged P1 @ 1050 P2 @ 1205

Start unloading @ 1135 into EQ
load #2 from MH-2 slightly
more turbid. Finish 1200
begin to onload frac tank to vac
truck

Unload from frac #1 started 1220
close 1245
charge P1 @ 1250

→

Fractank
Start unloading #2 1300
end 1325
EQ maintained effluent level
@ ~ 133 gpm

Start frac load #3 1345
Change P1 @ 1350 end 1415
Start load #4 @ 1435 end 1510

Water from frac tank is
relatively clear

end for day plan is report
in am to finish frac settling
pump remaining H₂O and clear
frac tank

off site 1540

Ralph Hood

4/20/12

Back on site @ 0830 w/PEC
Joe, Bruce, Jack
to continue draining frac
tank and perform cleaning

- changed P2 @ 835
collect sample of effluent
@ 0900

PN: 844 mostly
* effluent was 1 mH-1 water EQ
tank @ ~ 1100 gall and it was
sub 800 when I left 4/19.

mH-2 in high alarm

mH1 5745383

mH2 03072717

Eff 16657555

PS 2091

PRM 13530

Begin unloading frac truck #2
@ 1019am end 1040

Change P1 @ 1050

PEC cleaning frac tank
and drumming solids to
be stored on site until pick
up.

CHA off site @ 1130
PEC finishing tank

K Wood

4/24/12

plc 40°

on site for weekly sampling
and met Pete w/ Engler electric
to replace P2, P3 contactors.

CHA on site @ 0805

- MH-2 in high alarm (pumps are off)
- Replaced P1, P2 @ 0815
 - Pete arrives @ 0840 to
complete electrical work

P3 is ~~also~~ tripping the overload
- wiring or pump issue?

Sample effluent @ 0930
pH: ~~8.37~~ 8.37

gff

~~16678110~~ 16678110

MH1 5760191

MH2 3572717

FS 2097

BPM 139720

4/30/12

weather 62° sunny

On site @ 1300 for weekly
Sampling

MH-1, MH-2 in high alarm
EQ high alarm

floats not triggered for effluent pumps
turned on effluent pumps for
to clear EQ high, then reset
and system ok, running

Change P1 @ 1315

Sample effluent @ 1340
system runs for a bit
pH: 8.24

MH-2 still high, coordinating
MH-2 line cleaning

MH-1 05763085

MH-2 3072717

FS 2097

EFF 16681213

BFM 138280

off site

1445

5/9/12

on site 0900
weather plc 60°

On site in response to ~~alarm~~ ^{alarms}
of bag filter pressure

Change P1, P2 bag filters @
0910

collect MH-1 and effluent
samples

MH-1 @ 0920 pH: 7.25

effluent @ 0940 pH: 8.33

MH1 5818146

FS 2102

MH2 3072717

EFF: 16698261

BFM 144920

off site 0955

Kathryn Flood

5/11/12

3-PM Staff ^{Carlo Lawrence}
Lick

on site @ 0845 to meet
Precision Ind maint

Jet cleaned MH-2 line from
cleanout to MH-2.

vac trucked out ~ 2500 gal from
MH-2 directly into EQ tank
changed P1 @ ~ 1100

operator of jet cleaner said he
thought that we removed some
significant blockages.

Still no water to EQ tank from
MH-2

3073408 - MH-2 reading after
vac truck unhooked

hooked up vac truck to suck out
MH-2 line, worked! MH-2 line
needs to be jet cleaned

change P1 + P2 @ 1730

off site @ \$1745

K. Flood

5/16/12

on site 0945 am

MH-2 in high alarm

MH-2 is pumping but very slowly (based on hearing running water)
flow meter has not changed

Change P1, ~~P2~~ @ 0910

Sample MH-2 @ 0920
pH: 7.32

Sample effluent @ 0930
pH: 8.46

MH1 5066666 BFM 151560
MH2 3073408
FS 2108
Effluent 16755766

MH2 still in high alarm

off site 1000

~~Kathryn Hood~~

5/23/12

on site @ 900
for weekly sampling
weather: P/C 700

MH-2 still in high alarm
(but water is trickling slowly
- not enough to change flow meter)

Changed P1, P2 filters @
0910

MH1 05892419 FS 2108
MH2 3073408 Effluent 16789584
BFM 155450

pH Effluent 8.40 sampled
@ 0940

~~off site @ 0950~~

~~Kathryn Hood~~

5/25/12

weather p/c, sprinkles
70° - 85°

On site @ 0830 w/precision
to jet lines and fix flow
meter

3 man crew Rich, Lawrence, Kanna

*KF calibrated ~~flow meter~~ Hanna pH meter

Installed 2 clean outs
and jetted line between floor
and surface discharge

Control Panel Readings before
jetting ceiling level MH-2 line

MH1 5099482

MH2 3073424 → caused during
effluent 16798116 reposition of flow meter

Very dirty water coming out sampling
port during jet cleaning of MH-2
ceiling level line. There still not
much water and none @ sampling
port when P3 running alone

→

hooked up vac truck to line
leading to EQ tank
try to clear out any remaining
blockages

no change in MH-2 flow meter
before vac truck used

MH-2 flow meter 3073448

pipe will fill when valve to EQ
tank is closed and water is under
pressure. Once eq tank valve
opens. Note manhole-1 was on
at same time so may have backed
up into manhole 2 pipe causing
higher pressure.

off site @ 1445

Rathynor

On site @ 0835
5/30/12 weather PIC 65°

On site for weekly sampling
and to meet Paragon EC to
further troubleshoot MTH-2 flow
issues.
Engler electric also on site.

- Upon arrival MTH-1, MTH-2,
EQ-HI and EQ-LO alarms were
on. EQ-HI alarm appeared to
be stuck from 5/29. EQ-LO alarm
was valid. Turned system on/off
and EQ high alarm disappeared.
- pumped water into EQ tank to
eliminate problems w/ EQ LO alarm
 - changed P1 @ 0850
 - Sampled effluent @ 0915
pH: 8.33

Control Panel

MTH-1 5913327

MTH-2 3073488

Effluent 16814811

FS 2111

BPM 158430

Aaron from Engler electric

have to pump out MTH-2, emptied
into EQ tank
1st had begin offloading @ 1030

change P1 + P2 @ 1045, P1 @ 1055
water is very turbid

change P1, P2 @ 1145
" " P1, P2 @ 1145
" " P1 @ 1510

Gold pump has a short
3/4 HP Mayers pump shows signs
of laboring. Both pumps pulled and
taken to Gardner for diagnosis

change P1, P2 @ 1535

System running OK. MTH-2 is
off line

off site 1600

Kathryn Thred

6/1/12

on site @ 9⁰⁰ w/ Paragon and
Bruce/Aaron w/ Engler electric

troubleshooting electrical lines
- short / fried wires suspected
in underground conduit between
building and MH-2

wires need to be replaced and
plan is to upgrade ~~garage~~ garage

offload 1 vac ~~truck~~ full of MH-2
water starting @ 1155

Change P1 @ 1200

Change P1, P2 @ 1235

off site @ 1500

will reconvene 6/5 to
pull new wire through conduit

Kathryn Hord

6/5/12

#8 gauge wire

On Site @ 8am To Pull ~~new~~ e-wire to
MH-2 From BLDG Clearcut, VAC TRUCK
MH-2 & Collection MH. Empty EQ TANK
To Provide Space for MH-2 water. ~140 gal
More @ 1624.20 ft.

VAC TRUCK LOADS = MH

@ 3:30 pm Pumps TESTED & moved
water via pump #3 to EQ

An APPARENT BREAK IN CONDUIT APPROX
100 ft FROM BLDG PREVENTED PULLING
WIRE FROM BLDG TO MH-2. HOWEVER,
WIRE WAS PULLED FROM MH-2 TO BLDG.
THIS CAUSED 1/4" DIA SIZE OF
CONDUIT w/ SHARP EDGE CAUSING GROUND
FAULT.

System Set BACK TO AUTO @ 430

MH-2 = 16390.0

~~16242.0~~

$\Sigma \Delta = 148.0 \text{ of } (7.59 \frac{\text{gal}}{\text{ft}}) = 11,100 \text{ gal}$

off Site @ 5pm

Bob F. Miller

6/7/12

on site 0845
weather PIC 53°

On site for monthly sampling
and to address leaking in front
room @ HTC (near cleanout)

determined that couplers near
ball valve was loose. Tightened
w/ help of prop maintenance crew
all set

- restarted system mH-1 + mH-2
high

changed P1, P2 @ 1005

changed P1 @ 1035

mH-2 flow meter still not running
properly

Collect effluent @ 1020 ph: 8.36
sample mH-2 @ 1030 ph 7.20
sample mH-1 @ 1040 ph 7.17

all alarms clear @ ~~1050~~ 1045

change P1 @ 1050
P1, P2 @ 1100

Control panel

mH-1 5939057

BFM 103570

mH-2 3073448

PS 2141

Effluent 1687388

off site @ 1130

Kathryn Flood

6/15/12

on site @ 9⁰⁰ weather 65°
sleazy

on site for weekly sampling

- mH-1, EQ, mH-2 in high alarm
- Air Stripper low alarm
- Beg filter high pressure alarm
- Change PI @ 0920

Change PI @ 1005

mH-2 lights are blinking when they should be off (EQ high alarm) - turned off system upon restart
no more blinking

sample effluent @ 1030
pH: 8.16

Change P1, P2 @ 1035

Pump hour readings

P1 15786

P2 33068.5

P3 60555.5

P4 128219

Sump 21896

6/15/12 cont

Control Panel

mH-1 5946740

mH-2 373448

16886638

EFF ~~10886638~~

~~10886638~~

FS 2144

BFM: 10000

System in auto mH-1 and
mH-2 still high.

off site @ 1115

Kathryn Flood

6/18/12

on site @ 1345 for emergency assistance

• water w/in bermed area
EQ high, sump high, MH-1, MH-2 high

• changed P1 filter and turned on effluent pumps
- once EQ high off sump was manually turned on to drain water in bermed area

changed P1 @ 1500

off site @ 1510

Kathryn Chel

6/20/12

on site @ 1430 for weekly sampling

MH-1 and MH-2 are in alarm brought new bag filters

change P1, P2 @ 1440

sampled MH-2 influent @ 1455

sampled effluent @ 1505
pH 8.32

alarms clear @ 1515

MH1 5972313

MH2 3073448

EFF ~~16901624~~ 16916624

PS 2144 * may be broken

off site 1530

R. Shad

6/25/12

- on site @ 1520 for weekly sampling
- System operating as designed

changed $\phi 1$ @ 1530

MH-2 Sampled also & keep
an eye on influent levels
~~effluent~~ effluent @ 1540
pH 8.26

MH-2 @ 1550
pH 7.52

MH-1 5983247

MH-2 03073448

FS 2144

Est 1694313 + 1692813)

BFM 178320

off site @ 1600

Kathryn Shovel

7/11/12

on site @ noon for weekly
sampling

• System as designed, no alarms
• Sample MH 2 @ 1225
ph: 7.35

• Change P1, ~~P2~~ @ 1230

Sample effluent @ 1240
ph: 8.38

MH 1 0608703

MH 2 03073448

FS 2144

Effluent 17040943

BFM 189530

off site @ 1300

Karin Hood

7/19/12

on site @ 1130 for sampling

• System running as designed
• no alarms

• changed P1, P2 @ 1135

• sampled effluent @ 1145
ph: 8.38

sampled MH-2 @ 1155

PEC had delivered two drums
for non haz waste

MH-1 607608

MH-2 3073448

FS 2144

Eff 17081215

BFM 194190

off site @ 1215

~~K. Howard~~

7/24/12

• on site @ 1005 for weekly
sampling

• no alarms

• sample effluent ^{MH-2} @ 1015

• change P1 @ 1020

• sample ^{effluent} ~~1015~~ @ 1035
ph 8.45

MH-1 6022281

MH-2 03073448

Effluent 17102841 / 17103229

FS 2144

BFM 196760

off site @ 1045

~~K. Howard~~

7/31/12

on site @ 0830, no alarms

PEL on site to pick up 5 drums
from frac tank clean out

changed P1, P2 @ 855

sampled effluent @ 0945
pH: 8.38

sampled MIT-2 @ 0955
• re packed drums w) spent bag filters
MIT-1 6030398
MIT-2 3073448

FS 2144

EFF 1749089

BFM 202080

off site @ 1010

Kathryn Hood

8/9/12

on site @ 1600 for monthly
sampling

floor sump tripped → reset
MIT-1, MIT-2 high alarm

change P1, P2

sample MIT-2 @ 1415 pH 7.37
effluent @ 1420 8.36
MIT-1 @ 1430 pH 7.40

MIT-1 6047470

MIT-2 3073448

FS 2144 & broken

EFF 17185006

BFM 206280

Kathryn Hood

8/16/12 on site @ 1045

Change P1, P2

Sample effluent @ 1110 ^{PH: 8.44}
Sample mlt-2 @ 1115

System fine, no errors

mlt-1 6064873
mlt-2 3073448
Eff 1722625
FS 2144625
BPM 211650

off site @ 1230

~~Kathryn Hood~~

8/21/12 on site @ 1205

System OK, no alarms

Change P1 @ 1210

Sample Effluent @ 1220
Sample mlt-2 @ 1230 ^{PH: 7.36}

mlt-1 6072742
mlt-2 3073448
FS 2144
Eff 17256509
BPM 215260

off site 1300

~~Kathryn Hood~~

8/29/12

on site @ 1340 for weekly
sampling and replace
effluent flow sensor

System ok, no alarms

Changed P1 @ 1350

sampled eff @ 1410 pH 8.52

sampled MH-2 @ 1415

MH-1 6084074

MH-2 NC

Eff 17300937

FS NC

BFM 220440

replace sensor (effluent)
all set

off site 1500

~~Kathryn Hood~~

9/5/12 on site 1130 for sampling

System not in alarm

change P1, P2 @ 1140

Sample MH 1 @ 1145 pH 7.42

MH 2 @ 1150 pH 7.39

Eff @ 1155 pH: 8.40

MH 1 6094513

MH 2 NC

FS 2144

Eff 17342584

BFM 225700

off site 1215

~~Kathryn Hood~~

9/12/12

On site @ 0915 for weekly sampling.

System OK, no alarms

changed P1 @ 0920

sampled effluent @ 0940

pH: 8.42

sampled mH-2 @ 0950

mH-1 6106561

mH-2 NC

FS 2144

effluent 17386056

BPM 229940

off site @ 1005

Kathryn Howard

9/19/12

on site for weekly monitoring
@ 1000

• No alarms

• Charged P1 and P2 @ 1010

note SDGGS has put up a wall to close us off from the rest of the space.

sample effluent @ 1020

pH 8.41

sample mH-2 @ 1030

mH-1 6118279

mH-2 no charge

FS

" "

eff 17430901

BPM

224930

off site 1045

Kathryn Howard

9/26/12

on site @ 9:15 for weekly
sampling

No alarms

Change P1 @ 0930

Sampled effluent @ 0945
pH: 8.48

Sampled MIT-2 @ 0955

MH-1 6131677

MH-2 3073448

BFM 240090

FS 2144

Effluent 17477292

off site @ 1012

Kathryn Lind

10/3/12

on site for weekly/monthly
sampling

MH-1, MH-2, FS EQ high alarms
on. Filter pressure good, think it
was a float malfunction

Air pressure seems too high
on A/S. jumps around
air leak @ bottom of tray 1
near seal, both ends

FLS only works plugged in by
air pressure gauge, electrical issue
over by FLS

Sample MH-1 @ 1115

pH: 7.21

MH-2 @ 1120

pH: 7.41

Change P1, P2 @ 1125
Sample effluent @ 1135

MH-1 6140336
MH-2 NC
FS NC
EFF 17503287
BPM 242990

off site @ 1145

MH1, MH2 still high —

Kellyn Hood

10/9/12

On site @ 0845
no alarms

change P1, P2 @ 0910

Sample MH-2 @ 0940

Sample effluent @ 0930
pH 8.47

problems w/ AS pressure persist
There is an air leak @ both
ends, bottom tray (fixed tray)
pressure gauge is maxed out
AS flow is normal

MH-1 6158915
MH-2 NC
~~MH-3~~ FS NC
effluent 17512718
BPM 248860

off site @ 0945

Kellyn Hood

10/17/12

On site @ 135 for weekly
Sampling

No alarms
Air pressure still high on A/S
change P1 @ 1320

Sample mH-2 @ 1335

Sample effluent @ 1340
pH: 8.39

mH-1 6182579

mH-2 NC

FS 2144

Effluent 17582341

BPM 256580

off site @ 1350

Kathryn Love

10/25/12

on site @ 730

meeting PEC on site
for air stripper cleaning
and sump flow sensor

~~ELV~~
influent gasket needs
to be replaced

need to also vent air intake
to blower fan

Changed P1 @ 0810

pH: 8.41

Sampled Eff @ 0820

Sampled mH-2 @ 0830

mH-1 6209770

FS 2144

Eff 17654730

BPM 265190

replaced flow sensor to sump
testing FS = 2149

10/26/12

line items to fix @ CP

- 1) lights
- 2) vent air intake to outside
- 3) lift mechanism for trays
- 4) new door / better access
- 5) ramp near door for drum removal
- 6) possible replacement of remote access antenna (exterior)
- 7) heaters

- power washing works well to clean the trays
- best method
- trays will be power washed and holes re-drilled

off site @ 400 pm

Kellyn

on site 10/29/12

W/PEE to continue
ALS cleaning

- o finished cleaning ALS trays and reassembled
- o cleaned out sump and washed floor
- o found out that ~~most elimination is necessary~~, water was going into exhaust pipe, tightened up exhaust. Foam coming out

MT#1 flow meter not working

foam in exhaust pipe due to soap that ended up in sump after mist screen cleaning

mt-1 + mt-2 high alarms were on



Charge P1, P2 @ 1555
mH-2 high clear @ 1615

off site @ 1630

Rathyn Flood

10/31/12

mH-1 6209772

mH-2 NC

FS 2211

Eff 1670516

BFM 2669410

10/31/12

On site @ 1115
w/ S. Gilbert to fix
system alarms
• floor sump high
• EQ tank high
• mH-1, mH-2 high
• Bern shows signs of breach - 2 leaks bottom
Charge P1, P2 filters @ 1130

turn on A/S
pump down EQ tank +
Floor Sump

Clear EQ high + F/S high

A/S pressure much better
after clearing

sample mH-2 @ 1200
pH: 7.05

Sample effluent @ 1220
pH: 8.39

off site @ 1235 / KA

11/12

on site @ 1345 for monthly
Sampling

No Alarms

MIT-1 flow meter is
working again

MIT-1 Sampled @ 1355
pH: 7.35

MIT-2 Sampled @ 1405
pH: 7.30

Change P1, P2 @ 1410

Sampled eff @ 1420
pH: 8.32

MIT-1 6223087
MIT-2 NC
GH 17732123
FS 2211
BFM 273770

off site
445

K. Hood

11/14/12

on site @ 930 for sampling
No alarms

Changed both bags

Air pressure alarm 9:45

Bar effluent 10:51 alarm off

effluent sampled @ 10:05
pH: 7.29

MIT-2 Sampled @ 1010
TS# (don't need)

MIT-1 6238844
MIT-2 3073448
Bump: 2211
eff: 17782106
BFM: 279310

off site 10:25
K. Hood

11/20/12

on site @ 8:35 am for
Sampling - no alarms

Charged 100µm filter

Effluent Sampled @ 9:00 am
pH 7.61

MH-2 Sampled @ 9:05 am

MH1 0253125

MH2 3073448

Swamp 2211

effluent 17825418

BFM 2841110

off site 9:10 am

~~filter~~

11/27/12

on site @ 0900

w/ Engler Electric

Sample effluent @ 0930
pH: 7.88

Sample MH-2 @ 0945

Manhole 1 6267579

MH-2 NC

RS

2211

Eff

17871399

BFM

289200

Engler is working on designing
heater install and light
placement / install. 2 different
feeds into space

did some house keeping @ CP

off site @ 1245

~~left~~

11/28/12

on site 9:00am
w/ Engler Electric (Jim)

Switched electric box,
started metal in back
for heaters

off site 3:30pm

~~Signature~~

11/29/12 on site 8:00am

w/ Engler Electric (Jim)
worked on installing
heaters

off site 3:30pm

~~Signature~~

11/30/12 on site 8:00am

w/ Engler Electric
wires for heaters

start lights Temp 49°F @ 3:30

off site 3:30pm

~~Signature~~

12/3/12

on site @ 11:30am temp 60°F

heaters were left 3/4 on
over the weekend

Jim & Joe from Engler Electric
working on lights and
heaters

Took monthly sampling @ 3:00pm
No alarms

MH1 sampled @ 1521 1533

pH: 7.54

MH2 sampled @ 1521

pH: 7.85

Change P1, P2 @ 1545

sampled effluent @ 1603

pH: 8.21

MH1: 6280864

MH2: 3073448

Eff.: 17912257

PS: 2211

BFM: 293740

Temp 60°F

off site
@ 4:10

~~Signature~~

12/12/2012

on site 10:00 am

temperature 61°F inside
outside temp 30°F

No alarms

Jim from Engler Electric
put on remaining plate cover
@ 10:15 am

Changed P1

Effluent Sampled @ ~~10:35 am~~ 10:50 am
pH: 8.24

MH-2 sampled @ 10:55 am

MH1 6315497

MH2 3073448

Sump 2211

Effluent 17999.255

BFM 303410

Temperature 61°F

offsite 11:00 am ~~Butter~~

12/19/2012

On site 9:30 am for weekly
Sampling

No alarms temp 59°F

Change P1 + P2

effluent sampled @ 9:55
pH 7.9

MH2 sampled @ 10:00

MH1 6347650

MH2 3073448

Sump 2211

Effluent 18076932

BFM 312000

temp: 59°F

turned heaters up slightly
because of possible snow storm
this weekend

off site 10:20
~~Butter~~

12/26/12

on site @ 9am for weekly
sampling

no alarms

change P1 @ 0915

Leak noted @ top of air stripper
@ one of the influent couplings
appears to need to be tightened

temp 50° (outside is 10°)

sample effluent @ 0950
ph: ~~7.8~~ 7.84

sample MH-2 @ 1005

off site @ 1030

Kelly Hood

1/3/13

on site @ 11am for
monthly sampling

no alarms

change P1 + P2 @ ~~1105~~ 1110

sample MH2 @ 1105

ph 7.13

sample MH1 @ 11:00

ph 6.72

sample effluent @ 1125

ph ~~7.25~~ 7.6

Temp. 49° (outside 7°)

MH1 6427472

MH2 3073448

Sump 2211

effluent 18263635

BFM 332820

off site 1130

D. Batten

1/10/13

On site @ 7³⁰ am w/ PEC
to address site issues

- System OK, no alarms
- indoor temp 60° F
- PEC installs new air intake to exterior
- PEC tightens valve @ top of A/S to eliminate leak
- Floor Sump flow meter is functional but appears to get blocked w/ sediment will look into a screen of some kind
- RT cleans filter housings removes scale + lubricates scrub bolts

Change P1 @ 1030

Change P1 @ 1215

P2 @ 1220

Sample MH-2 @ 1230

RT cleaned the sump

Sample Eff @ H30
ph 7.75

MH-1 6449191

MH-2 03073448

FS 2219

Eff 18327367

Biom. 339896

off site 1445

~~Raffyn Hood~~

1/16/13 on site 920am

4-alarms: MH1, MH2,
EQ tank high,
bag filters high
heater @ 59°F

Charged P1 + P2 925am

bag filter alarm off
Ran air stripper

EQ alarm off
Ran system on auto
flow < 100 GPM

charged P1 + P2 again 1006am

Sampled MH2 @ 1025

Sampled Effluent @ 1030
pH 8.16

MH1	6455878
MH2	3073448
Sump	2219
BFM	344450
Eff	18352003

off site 10:32
A. Sullivan

1/22/13

on site @ 920am for
weekly sampling

4-alarms: MH1, MH2,

EQ tank, bag filters high

Temp: 50°F inside 10°F outside

change P1 + P2 @ 925

Ran air stripper

EQ + air alarm off

flow < 100 GPM

~~Charged P1 + P2 again~~

Sampled MH2 @ 1027

Sampled Effluent @ 1030
pH 8.09

MH1	6467752
MH2	3073448
Sump	2219
BFM	346540
Eff	18358678

off site 1034
A. Sullivan

1/30/13

on site @ 920 am

3 alarms

MH1

MH2

High EQ tank

heater Temp 60°F outside 45°F

Changed P1 + P2 @ 925

Sampled MH2 @ 950

Sampled effluent @ 955

pH: 8.24

MH1 651997

MH2 3073448

Sump 2219

BFM 357830

Effl. 18383322

off site 10:00

~~D. L. Lutter~~

2/6/13

On site @ 1030 am for monthly sampling

2 alarms: high EQ tank, MH1

Temp @ 55°F

Changed P1 + P2 @ 1035

Sampled MH2 @ 11:00

Sampled MH1 @ 11:08

pH 8.23

Sampled Effluent @ 11:05

pH. 8.52

MH1 6562244

MH2 3073448

Sump 2219

BFM 368610

Effl. 18472667

off site 11:15

~~D. L. Lutter~~

2/14/13

on site @ 0910 for weekly
sampling

No alarms
temp 55°F

Change P1 @ 0915

Sample effluent 0930
ph: 8.24

Sample MH-2 @ 0945

MH-1 06589070

MH-2 03073448

FS 2219

Effluent 18543625

BFM 376560

took pictures of site for
proposed system upgrades

off site 1040

Kathleen

2/20/13

on site @ 921 for weekly sampling

No alarms
Temp @ 59°F

Change P1 & P2 @ 925

Sampled MH2 @ 945

effluent @ 950
pH 7.25

MH1	6605913
MH2	3073448
Sump	2219
BFM	388870
effluent	18591316

off site @ 955
D. Sullivan

2/27/13

on site @ 920 for weekly sampling
Temp @ 59°F
No alarms
Changed PI @ 926

Sampled Effluent @ 937
pH 7.5

Sampled mH2 @ 940

MH1 6622743

MH2 3073448

Sump 2219

Effluent 18643639

BFM 387670

off site @ 955am
~~Substation~~

3/7/13

on site @ 0800 for weekly
sampling
Temp @ 59°F (Turned heater down 1/2 way)
EQ low, mH-1, mH-2 high
alarms are on.

~~changed PI, P2 @ 0805~~

← canisters were very low →
probably a result of EQ low
alarm Eff is only 18643717,
compared to previous week

Sample mH-1 @ 815

H₂O noted to be max ^{brown} orange than
normal pH: 7.65

Sample mH-2 @ 0820

pH: 7.66

Sample effluent @ 0830

pH: 7.85

mH-1 6624424

mH-2 NC

FS 2219

Effluent 18644816

REM 387820

off site
@ 835

Kathryn Ford

3/12/13

on site @ 915 for weekly

sampling
temp 51°F

5 alarms

MH1 + MH2 high

EQ tank high

floor sump high

Overload tripped in mSPanel

Changed P1 + P2 @ 920

Reset floor sump from overload panel

Ran EQ tank/Effl. Pump

alarm off

turned on / plugged in Sump

high Sump alarm off

Sampled MH2 @ 1000

Sampled Effluent @ 1005

pH 8.02

MH1 6663118

MH2 3073448

BFM 396150

Sump 2219

Effl. 18281.2104

off site
1015
A. H. H.

3/20/13

on site @ 935 for weekly

sampling

temp 50°F

4 alarms

MH1, EQ tank hi

Floor Sump hi, overload tripped

Reset overload, ran EQ tank,
both alarms off, ran
sump pump, alarm off

Changed P1 + P2 @ ~~940~~ 945

Sampled MH2 @ 10am

Sampled Effluent @ 1005

pH 7.98

MH1 6721679

MH2 3073448

BFM 409300

Sump 2219

Effl. 18800294

off site 1015

A. H. H.

3/27/2013

On site @ 925 Am
Temp 51°F

No alarms
Changed PI @ 927 Am

Sampled MH2 @ 946 Am
had difficulty getting enough water
Sampled Effluent @ 955 Am
pH: 7.96

MHI 6748608

MH2 3073448

Effluent 18874982

BFM 417610

Sump 2219

off site @
1003
~~Subman~~

4/3/2013

On site @ 1040 for monthly
Sampling. Temp @ 51°F

~~ET~~ No alarms
Changed PI + P2 @ 1045

Sampled Effluent @ 1055
pH 7.22

Sampled MH2 @ 1100
pH 7.2

Sampled MH1 @ 1105
pH 7.25

MHI 6773984

MH2 3073448

Effluent 18942956

BFM 425210

Sump 2219

off site @ 1110
~~Subman~~

4/10/2013

On site @ 945am
temp 58°F no alarms

Changed P1 @ 950

Sampled Effluent @ 1000
pH: 7.80

Sampled MH2 @ 1005

MH1 6794899

MH2 3073448

Sump 2219

Effluent 19003741

BFM 431990

off site 1015
~~B Lutter~~

4/18/2013

On site @ 915am for weekly
samples. Temp. 57°F

2 alarms: EQ tank high
MH1 high

Changed P1 & P2 @ 920

Ran System - pumped effluent
no alarms

Sampled Effluent @
pH 7.88

Sampled MH2 @

MH1 6844278

MH2 3073448

Sump 2219

Effluent 19092670

BFM 444770

off site 942
~~B Lutter~~

4/25/13 on site @ 1510

System OK, no alarms
calibrated PH meter
change P1 @ 1515

sampled MH-2 @ 1525
PH: 6.50

sampled Effluent @ 1535
PH: 6.67

MH1 6382714
MH2 NC
Eff 19188002
BFM 455420
FS 2219

turned off heaters for the summer
off site 1535

Kelly Kneel

5/1/13

70° sunny

Cha on site @ 1430
System OK no alarms
change P1, P2 @ 1435

sample MH-1 @ 1445
6.50
MH-2 @ 1455
PH: 6.41
Eff @ 1505
PH: 6.76

MH1 6906568
MH2 NC
Eff 19249360
BFM 0462380
FS 2219

sending fax
off site @ 1520

Kelly Kneel

5/9/13

PLC 650 R

Cha on site 1400

MH-1, MH-2, EA, FS high
alarms

- CTA turns on eff pump

need to plug sump into extension
cord and then to outlet where
phone/modem is plugged in. outlet
next door not functioning

* FS reading not changing *
no filter change, system not
run very much

Sample MH-1 @ 1440
ph: 6.40

Sample MH-2 @ 1455

MH1 6909085

MH2 no change

EA 19255876

FS 2219 * see note

BPM 463100

bebasat system for awhile
at 1535

*Copy
to
note*

5/10/13

65° Sunny

CHA on site @ 0915

System in alarm

MH-1, MH-2, EA, FS high

Floor sump was overflowing in
the grate area

- turned on floor sump and drained
excess water.

- inspected all valves -> no leaks
observed

- climbed ladder to inspect EA
tank -> H2O on top of EA tank
indicates that tank overflow caused
the water in the sump. floats
perhaps high alarm ~~are~~ are
not working?

Watched tank fill to high level and
EA high came on / stopped influent

will continue to monitor MH1, MH-2
high still on when I left -

off site @ 11:00
William Lloyd

5/15/13

Cha on site @ 1345

MH-1, MH-2, EQ high alarms

changed P1, P2 @ 1355

both filters were very clogged

let system run - supervised

Sample Effluent @ 1440
ph: 7.35

Sampled MH-2 @ 1445
ph: 7.37

MH-1 6938396

MH-2 NC

Eff 19282590

DFM 468310

FS 2219

off site
1500

KJ

5/23/13 Cha on site @ 1530

System OK, no alarms.

Charged P1.

Sample eff @ 1555
ph 7.32

Sample MH-2 @ 1600

MH1 6961095

MH2 NC

FS 2219

Eff 19353121

DFM 476180

KJ

5/30/13

CHA on site @ 0915-
ED high, mlt-1, mlt-2 high
Floor sump high @nd A15
VFD fault alarms are on

Water has overflowed ED again
turn on A15
change P1, P2
turn on eff pumps to drain
ED, then floor sump

Sample eff @ 1045
ph 6.58

Sample mlt-2 @ 1350
ph 6.64

mlt-1 6904852

mlt-2 NC

PS 2219

Eff 19403615

BFM 483190

off site @ 1105

K. L. Hood

Showers, SS

6/6/13

CHA on site @ 1405

System OK, no alarms
change P1 P2 (needed)

Sample mlt-1 @ 1420
ph: 6.57

Sample mlt-2 @ 1430
ph: 6.66

Sample eff @ 1445
ph: 7.04

mlt-1 7020 737

mlt-2 NC

PS 2219

BFM 492880

Eff 19409640

Cha off site @ 1505

6/13/13

rain, 55°

CHA on site @ 0850 am
mit-1, mit-2 FS high alarms
system was in shutdown → done
remotely from CHA office 6/12 after
from sump alarm on. Not flooded

physzed in F/S to clear that alarm
and then turned system back to auto

- delivered 2 ^{cases} ~~bags~~ of bag filters
to the site. 9-50 micron, 1-100 micron

Changed P1, P2 @ 0940

Sample effluent @ 0955
pH: 7.86

mit-1, mit-2 alarms still on
but system running well

off site @ 1030

K Hood

6/13/13 cont

mit-1 07027736

mit-2 NC

FS 2205 (NC) * not working?

eff 19500645

BRM 0494130

~~6/12/13~~

~~On site~~

6/18/13

PLC 700

on site @ 1345 for weekly samplings
and for alarms
MH-1, MH-2 high, EO high,
FS high

Charged P1, P2

Sampled MH-2 @ 1420

EFF
sample ~~ended~~ @ 1445
pH 7.48

MH-1 07052251 EFF 19536428

MH-2 NC

FS 2342

OFM 498010

off site @ 1500

6/12/13

on site @ 1415 for alarms
MH-1, MH-2, high
bag filter high but not in
alarm (dialed in on Friday)

Change P1, P2

MH-1 is not registering any
flow but water is
moving? appears to be.

off site @ 1445

fast flood

6/27/2013

On site @ 915 - no alarms

Charged P1 + P2

Sampled MH2 @ 935

Sampled Effluent @ 940
pH 7.7

BFM 517810

MH1 7112552

MH2 3073448

Effluent 19681263

Sump 2526 2612

Low EQ tank alarm, began

pumping MH1 + MH2

Sump overflowing, turned on
sump

all alarms off - troubleshooting
w/ Katie Flood on phone

off site @ 1046

A. Lett

6/28/2013

On site @ 730 w/ Paragon
to determine and
fix source of sump pump
back up and water
leak.

Ardy and Carl fixed the
small leak from the bag
filters with a wire brush
and replaced the check
valve for the sump pump
line.

Low flow - charged P1 + P2

off site 1100

A. Lett

7/1/13

On site @ 1505
received alerts for high alarms
MH1 + MH2 high
EQ tank high
Sump high

Ran sump
Pumped EQ tank
Both alarms off

Charged P1 + P2

Sampled monthly
MH1 @ 340 (1340)
pH 7.98
MH2 @ 345 (1545) 1550
pH 7.75
Effluent @ 1545
pH 7.87

MH1 7150647

MH2 3073448

~~EQ~~ Sump 2829

Effluent 19755159

BFM 526120

off site @
1600

7/3/13

ON SITE @ 3pm (1500)

Rec'd Hi Sump Alarm, MH1 & MH2
Hi Alarms.

Manually pumped Sump to EQ
Challenger Filters P1 & P2

(NOTED 100um FILTER HOUSING COVER

(ATTACHED)
HAD CORROSION, ABOUT 1/2 INCH SCAL
MAY REQUIRE REPLACEMENT AND/OR
POLISHING TO MAINTAIN ACCEPTABLE
SCAL w/ COVER)

↳ USE OF STRAP RENCH
Helpful

Pumped EQ & Reset (MH1 & 2
Remain High)

Auto EVAPORATED

MH1 off Site @ 5pm (1700)

W K. M. M.

7/10/13

On site @ 1445 for
weekly sampling

Changed P1 & P2
- not properly filled
Switch back to
every other week

Sampled Effluent @ 1505
pH 7.88

Sampled MH2 @

BFM 548550

MH1 7246643

MH2 3073448

Effluent 19955105

Sump 2887

off site @
1515

7/17/13

On site @ 0915

no alarms

Water leaking from top of P-2
entering sump and some splashed
out onto adjacent concrete.

Applied Speedi-dry outside of
sump area
top of P-2 was loose, 1/4"
gap

Changed P1, P2 and tightened
down lids. System running
through filters w/no leaks

MH-2 @ 0950

Effluent @ 1000
pH: 8.00

MH1 07274351

MH-2 03073448

Lff 20041998

FS 3940

BFM 558300

all n.i.e @ 1130

KL

7/24/13

On site @ 0935 for weekly
sampling

No alarms

Changed P1

Sampled MH2 @ ~~955~~ 1000

Sampled Effluent @ 955
pH 7.6

MH1 7295708

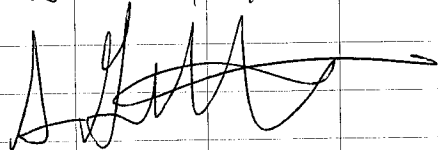
MH2 3073448

Sump 3940

Effluent 20113008

BFM 566260

off site 1015



7/30/13

on site @ 1730 for weekly
sampling

No alarms

change P1, P2

sampled MH2 @ 9940
~~PH~~

sample effluent @ 1745
pH: 7.80

MH1 7313358

MH-2 3073448

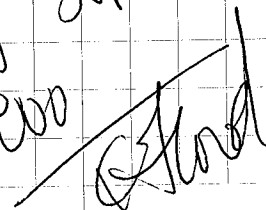
FS 3940

Effluent 20173149

BFM 573010

off site

1200



8/7/13

On site @ 1400 for monthly
samples - no alarms

Changed P1

Sampled MH1 @ 1430
pH 6.96

Sampled Effluent @
pH 7.16

Sampled MH2 @ 1425
pH 6.97

MH1 7333763

MH2 3073448

Sump 3940

Effluent 20245458

BFM 581110

off site @ 1435
~~Diagrams~~

8/15/13

08/15/13

on site @ 1700 for sampling
no alarms

Changed P1, P2

Sample MH2 @ 1725

Effluent @ 1735
pH: 7.21

MH1 7352505

MH2 NC

FS 3940

Eff 2031301

BFM 580660

off site @ 1750

Kylond

8/20/13

On site @ 0800 w/ Paragon for
routine maintenance and
weekly sampling - no alarms

Changed P1

MH2 sampled @ 830

Effluent sampled @ 835
pH 7.21

MH1 7361775

MH2 3073448

Effluent 20346985

Sump 3940

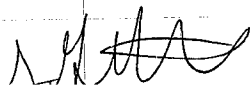
BEM 592470

Ran EQ Tank to drain water for
pressure washing

fence removed

floats not replaced due to
inability to get them out of
EQ tank. Floor sealed & sand
applied.

1st site @ 1345



8/28/13

On site @ 0800
met Paragon / Markowski for
drum pick up / delivery.
Took away 3 drums non
haz filter bags.

DEC on site for ^{Annual} RCHA inspection
P. Paul
C. Mullin / K. Flood

DEC: R Senior, Richard Cionele
no major issues mentioned

Change P1, P2 MH2
sample ~~eff~~ @ 1120

sample ~~eff~~ @ 1135
pH: 7.45

MH-1	7376233	Eff	204035 ²⁶
MH-2	NL	FS	3940
BEM	598790		

off site @ 12 noon

9/4/13

On site @ 0900 for monthly
sampling and effluent vs influent
test

No alarms

Changed P1

took pictures of floor + cracks
effluent to AS pipe diameter 2'3"

Sampled Effluent @ 920 pH: 7.16

Sampled MH1 @ 925 pH 6.93

Sampled MH2 @ 930 pH 7.24

one sample - brown color present
jar broke

Ran out of water - sampled @ 1010

Still slight brown tint

MH1 7393777 Effluent 20461450

MH2 3073448 BFM 605290

Sump 3940

Start @ 1300 on EQ tank @ 10:27

Finish @ 1200 on EQ tank @ 10:28

Effluent₁ 20461587

Effluent₂ 20461741

BFM₁ 605310

BFM₂ 605330

old site 1030am
11.11.11

9/10/13

On site @ 0900 for weekly
samples - no alarms

Changed P1, P2

Sampled MH2 @ 925

Sampled Effluent @ 930
pH 7.48

MH1 7407476 Effluent 20509646

MH2 3073448 BFM 610700

Sump 3940

C EQ tank = 23'10"

every 100 gallon mark = 3.5"

Start @ 1500 on EQ tank @ 940

End @ 1400 on EQ tank @ 941

Effluent₁ 20509666

Effluent₂ 20509836

BFM₁ ~~610~~ 610710

BFM₂ 610730

off site @ 945
11.11.11

9/17/13

On site @ 1230 For
weekly samples

Temp @ 63°F inside

No alarms

Changed P1

Sampled MH2 @ 1240

Sampled Effluent @ 1245
pH 7.7

Note slight brown tint to
water from MH2

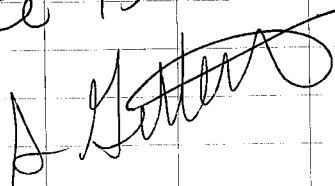
MH1 7431998

MH2: 03073448

Sump: 3940

Effluent: 20581475

BFM: 618780

off site 1300


9/25/13

On site @ 920 for weekly

Samples - no alarms, temp 60°F

Changed P1 + P2

Sampled MH2 @ 940

Sampled Effluent @ 945
pH 7.68

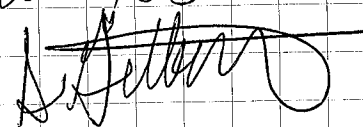
MH1 7453073

MH2 3073448

Sump 3940

Effluent 20649705

BFM 626440

offsite 955


10/3/13

Sunny 60°

on site @ 1035

FS high, CR high, MH-1, MH-2
high alarms

- turned off pumps on manually
then when ER was lower, plugged in
the sump.

once sump was clear system was put
back into auto mode

- calibrated pH meter

Sampled MH-1 @ 1050

pH: 6.49

MH-2 @ 1130

pH: 6.45

changed P1

Sampled eff @ 1155

pH: 6.68

MH1 07471824

MH2 NC

FS 3940 # → ran but NC

Eff 207786

Bfm 631840

off site 1215

K. Hood

10/11/13

PIC 80°

Crta on site @ 0920

System OK → no alarms

- change P1, P2

- inspect outfall areas @ request of
G. Mullin re: Closure plan. Photos
taken

Sampled MH-2 @ 1000

Sampled Eff @ 1010

pH: 7.33

MH1 7491135

MH2 NC

FS 3940

Eff 20768464

Bfm 639800

off site @ 1035

K. Hood

10/17/13

sunny 60°

- CMA on site @ 1000 for weekly sampling system OK, no alarms
- changed P1 bag filter
- sampled effluent @ 1025
pH: 7.18

sampled mlt-2 @ 1030

mlt-1 7510424 FS 3940
mlt-2 3073448 Effluent ~~20829258~~
BFM 646630

off site @ 1055

Kathryn Menick

10/24/13

plc 48°F

CMA on-site @ 1430 for sampling
- no alarms, system OK

- changed P1, P2 bag filters

Sample: mlt-2 @ 1445
effluent @ 1455
pH: 7.35

mlt-1 7531736
mlt-2 03073448
FS 3940
Effluent 20891281
BFM 653600

off site @ 1510

Kathryn Menick

10/31/13

raining 55°

CtA on site @ 1110
System OK, no alarms

Charged P1

Sampled effluent @ 1125

ph: 7.41
MH-2 @ 1135

Temp @ 52° F w/ no heaters

MH-1 7548394
MH-2 03073448
FS 3940
Effluent 20942356
BFM 659330

off site 1145

K. Hood

11/7/13

45° plc
w/ showers

- CTA on site @ 1005 for monthly/
weekly sampling

- System OK, no alarms

- inside temp 59° F

- Charged P1, P2

MH-1 @ 1025 PH 6.87
MH-2 1035 ~~ph~~ 6.95

Sample effluent @ 1045
pH: 7.14

MH-1 7567936
MH-2 NC
FS 3940
Effluent 21086692
BFM 665800

off site @ 1110

Kathryn Mennick

11/14/13

Sunny 40°F

° On site @ 0930 for weekly sampling

° no alarms active

° turned on heaters for the winter season @ 3/4 normal power
↳ all start up and seem to run normal

° changed P1

Sample effluent @ 1010
ph 6.88

Sample Mlt-2 @ 1020

height of A/S = 8' 9"

clearance of transformer 20'
2nd trans box ~ 3' from top of A/S

BFM: 673110

Mlt-1: 7592033

Mlt-2: no change

FS: 3940

Eff: 21065275

off site @ 1040

~~John Monick~~

11/20/13

Sunny 70°F

Temp indoor = 66°F

- on site for weekly sampling

- no alarms

- changed P1, P2

Sampled Mlt-2 @ 1110

Sampled Effluent @ 1125
pH: 7.18

Mlt-1 7609354

Mlt-2 NC

FS 3940

Effluent: 21114299

BFM 678610

off site @ 1135

~~John Monick~~

11/26/13

30° cloudy

CHTA on site @ 920 for sampling
interior temp 53°
- no alarms

Changed PI filter

Sampled mlt-2 @ 0940

Sampled effluent @ 0950
pH: 6.90

MH1 7625323

MH2 no change

FS 3940

Eff 21159787

BFM 683720

CHTA off site @ 1000

Kathryn Merrick

2/15/13 @ 1400
On site for monthly samples
no alarms
inside temp 61°F

Charged P1 + P2

Sampled Effluent @ 1415
pH 6.167

Sampled MH2 @ 1420

Sampled MH1 @ 1425
pH 6.80

~~MH2~~

MH1 7666703

FS MH2 3073448

Effluent 21260812

BFM 695060

FS 3940

12/11/13

On site @ 1357 for
weekly samples for
inside temp

Charged P1

Sampled MH2 @ 1405

Ran out of water - turned brown

Sampled Effluent @ 1410
pH: 7.38

MH1 7691700

MH2 3073448

Sump 3940

Effluent 21322548

BFM 702000

off site @ 1425

A. Lutter

12/17/13

On site @ 1345 for
weekly samples
inside temp @ 42°F
turned heaters up 1 notch
Changed P1 + P2

Sampled MH2 @ 1415

Sampled Effluent @ 1410
pH 7.01

MH1	7710184
MH2	3073448
Sump	3940
Effluent	21372597
BFM	707620

offsite @ 1425
A. J. J. J.

12/26/13

On site @ 1215 for weekly samples
Snow, 28"
inside temp: 54°
system ok, no alarms
plugged in sump to manually run for 5 mins
changed P1 filter

Sampled effluent @ 1230
pH: 7.23

Sampled MH-2 @ 1240

MH-1	7762558
MH-2	no change
FS	3940
Eff	21488052
BFM	720580

off site @ 1250

R. M. M. M.

**APPENDIX H
INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION
FORM**

2012-2013 PERIODIC REVIEW REPORT

**2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003**

JANUARY 2014



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	622003	
Site Name Chicago Pneumatic Tool Company		
Site Address: 2200 Bleecker Street Zip Code: 13340		
City/Town: Frankfort		
County: Herkimer		
Site Acreage: 77.0		
Reporting Period: August 15, 2012 to December 31, 2013		
		YES NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2	
	YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
_____ Signature of Owner, Remedial Party or Designated Representative	_____ Date

SITE NO. 622003

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

104.3-1-24

UTICA HOLDING CO

Monitoring Plan
O&M Plan

SPDES Discharge Permit NY-0257087 & NY-0108537

Box 4

Description of Engineering Controls

Parcel

Engineering Control

104.3-1-24

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control
Vapor Mitigation

Engineering controls include a groundwater pump & treatment system, an engineered cap in place over a consolidated soil pile, and leachate collection for offsite disposal. A long term groundwater monitoring program is ongoing.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) 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; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 622003

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 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 Roger Creighton at 360 Erie Blvd East, Syracuse, NY 13202
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

1/31/2014
Date

REC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 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.

PAUL M. FRANK 326 County Road 12, Cane Shade
print name print business address NY 15076

am certifying as a Professional Engineer for the UTICA HOLDINGS Co.
(Owner or Remedial Party)

[Signature] 
Signature of Professional Engineer for the Owner or Remedial Party, Rendering Certification Stamp (Required for PE) Date 8/2/14

IC CERTIFICATIONS
SITE NO. 622003

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 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.

_____ at _____
print name print business address

am certifying as _____ (Owner or Remedial Party) for

the Site named in the Site Details Section of this form.

Signature of Owner or Remedial Party Rendering Certification

Date

IC/EC CERTIFICATIONS

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that the information in Boxes 4 and 5 relating to the pump and treat IC/EC 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.

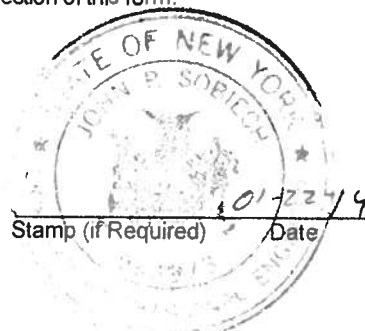
I John P. Sobiech at 3 Winners Circle, Albany, NY 12205
_____ print name print business address

am certifying as a Qualified Environmental Professional for the _____

Chicago Pneumatic Company

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



Stamp (if Required)

Date