

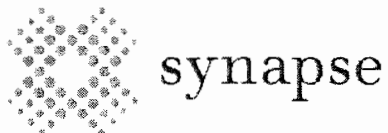
**2009 ANNUAL OPERATION,
MAINTENANCE AND
MONITORING REPORT**

**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.
Historic Bennett Warehouse
325 East Water Street
Syracuse, New York 13202

July 2010

CERTIFICATION

I, Paul M. Fisher, P.E., as a New York State licensed Professional Engineer, certify that the 2009 Annual Operation, Maintenance and Monitoring 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 2009), 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, 2009-December 31, 2009) of the 2009 Annual Operation, Maintenance and Monitoring Report, for the property located at 2200 Bleecker Street, Utica, New York, is prepared pursuant to the Draft DER-10 December 2002 (updated November 2009), Section 1.5(a) 8 and has been prepared in accordance with good engineering practices.



John P. Sobiech
Printed Name of Certifying Engineer

[Signature]
Signature of Certifying Engineer

07/20/10
Date of Certification

068973
Registration Number

NY
Registration State

Clough Harbour & Associates LLP
Company

Partner
Title

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APPENDIX H	Periodic Review Report

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)

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	5/10

1.0 INTRODUCTION

This 2009 Operation, Maintenance and Monitoring Report (OM&M Report) provides an annual account of activities relative to the property located at 2200 Bleecker Street in Utica, New York (the Property).

Chicago Pneumatic Tool Company (CPTC) occupied 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 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 Street) acquired the fee ownership interests in the buildings and land beneath the Main Building from Coolidge Utica LLC. It is understood from 2200 Bleecker that a to be formed limited liability company with similar ownership interests to 2200 Bleecker seeks to enter into a restated and amended ground lease with UHC for the Leased Premises.

1.1 Regulatory History

Environmental assessments and investigations conducted between 1985 and 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. A chronological list entitled Associated Documents, Page v through Page vii, summarizes key documents.

1.2 Purpose

This OM&M Report has been prepared in conformance with the requirements set forth in NYSDEC's Draft DER-10, dated December 25, 2002, *Technical Guidance for Site Investigation and Remediation* (DER-10), and has been prepared in reference to the Final Engineering Report (FER), previously submitted and accepted by NYSDEC for the Property. Additionally, the April 2001 site specific OM&M Manual was approved by NYSDEC, along with subsequent annual reports. This OM&M Report, as directed 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 the 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 Period Review Report 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 operations 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 Inspection and Maintenance - Discusses the current ownership and uses of the Property, and the ongoing inspection and maintenance requirements associated with the Property's general ongoing use;

Section 3.0 - Remedial Action Facility - Discusses the Remedial Action Facility (RAF) at the Property, primarily consisting of a containment cell, a leachate collection and storage system, and the inspection and maintenance requirements associated with the RAF's ongoing operation;

Section 4.0 - Groundwater Monitoring - Discusses the groundwater monitoring well network at the Property, the groundwater sampling and analytical requirements and subsequent results;

Section 5.0 - Property SPDES - Discusses the State Pollutant Discharge Elimination System (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; and

Section 6.0 - Groundwater Treatment System - 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.

Additionally, pursuant to the Site Management (6NYCRR 375-1.2) progress report criteria for the Property, the certified Periodic Review Report is submitted herein as Appendix H.

Each section contains appropriate tables and figures, as they apply to that specific section. This OM&M Report 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 2009, 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 INSPECTION AND MAINTENANCE

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 2009 and subsequently rents/leases portions/sections 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 is 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 History

CPTC occupied the Property from 1948 until 1997 for the manufacture of pneumatic tools. Danaher owned CPTC, but later transferred 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 and, 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. It is understood from 2200 Bleecker that a to be formed limited liability company with similar ownership interests to 2200 Bleecker seeks to enter into a restated and amended ground lease with UHC for the Leased Premises.

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 Record of Decision 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 stripper that has been in operation since 1995. The air stripper and pumping appurtenance were incorporated into the RA. 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 Danaher 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 is 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 which is discussed in Section 6.

2.2 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 investigative 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.

2.3 Property Activities

In 2009, the majority of the Property buildings were occupied by tenants that generally include warehouse storage, food (dough) manufacturing, marine dock fabrication and pharmaceutical bottling. The Main Building, 458,000 square feet, is surrounded by approximately 57,000 square feet of ancillary buildings. Paved access roads and parking areas that accounts for approximately 12 acres. An approximate 35-acre wooded tract, at the southern portion of the Property, remains undeveloped. No specific changes in the Property's makeup or unusual activities related to the operation and maintenance requirements were noted during the calendar year 2009.

2.4 Inspection

Scheduled Property visits and subsequent Site Inspection Reports – Form A and Form A1, (Appendix A) are performed and prepared to track Property activities and monitor Property drainage. These reports indicate required maintenance and provide a follow-up to ensure the subsequent maintenance effectiveness. Scheduled and unscheduled Property visits are documented on this and other forms, and are discussed in appropriate sections throughout this report. During 2009, the Property ditches were inspected and observed to be well vegetated, and overall, not generally prone to sedimentation and erosion. Additionally, the ditches are inspected for unusual staining and deposits, of which none were identified. The Property culverts are inspected as well, to ensure they are clear and functional.

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 new 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 (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 newly created Outfall 03B (April 2009) is discharged on a quarterly basis to former Area 6 ditch, further discussed 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

The northern portion of the Property continued to be the most active during 2009; the southern portion of the Property remains wooded and undeveloped. Tenants occupy approximately 80% 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. No reportable issues of concern were noted with regard to property drainage or physical conditions, therefore, continuation of the scheduled inspection is recommended for this aspect of the Property.

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 & MCGVERN, 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 NYSQS WEBSITE.

120' 0 120' 240'
GRAPHIC SCALE: 1" = 240'

X CP-BASE
P DL2BC
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB03.DWG



SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2009 ANNUAL OPERATION,
MAINTENANCE & MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

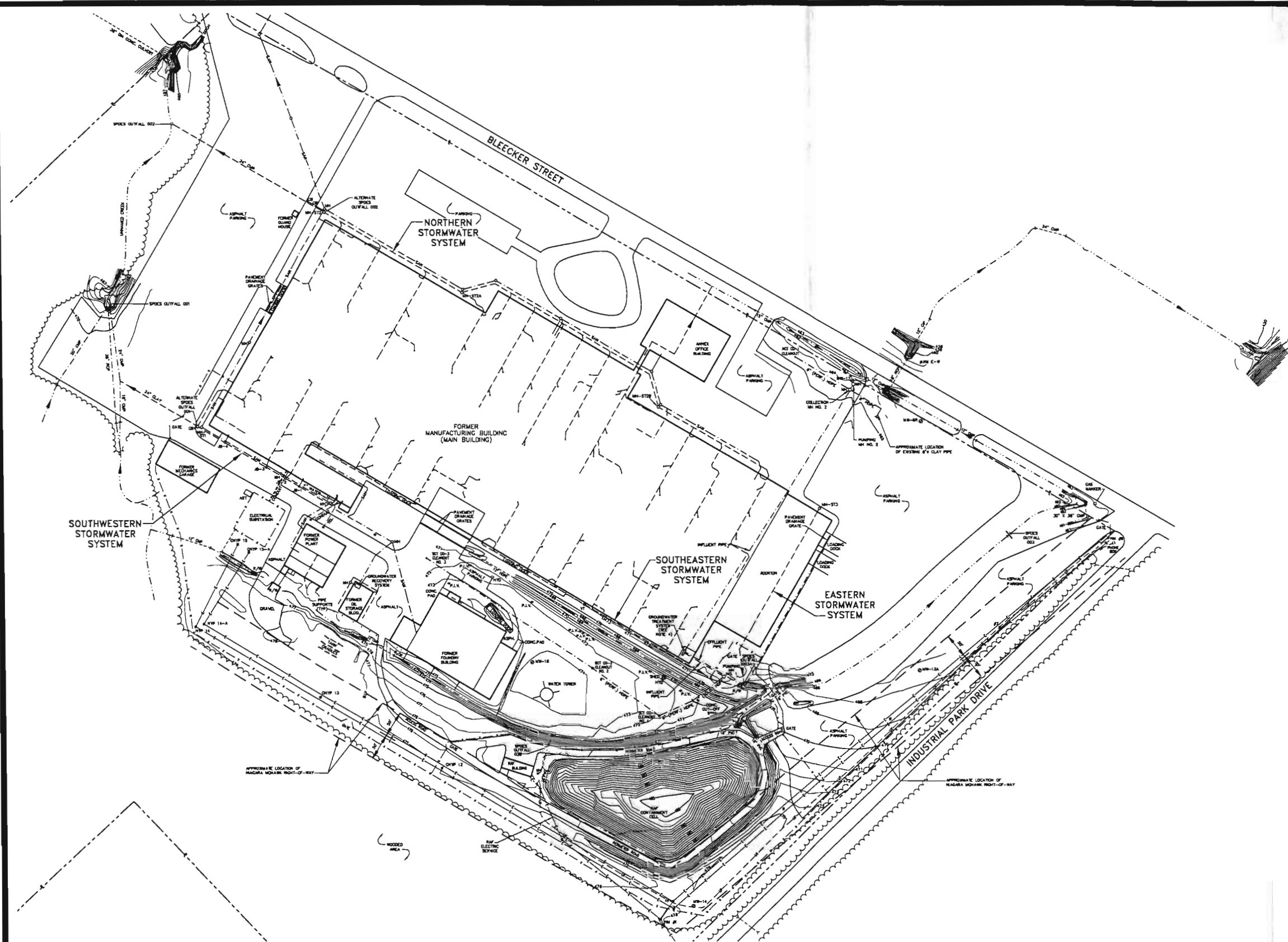
AERIAL PROPERTY MAP

PROJECT NO.:
DANA 01-04

DATE:
MAY 2010

FIGURE NO.:

2-1



- LEGEND**
- 10' — ELEVATION CONTOUR
 - 10' — MANHOLE
 - 10' — CHAIN LINK FENCE
 - 10' — UTILITY POLE
 - 10' — RETAINING WALL
 - 10' — SURFACE DRAINAGE CULVERT
 - 10' — DRAINAGE DITCH
 - 10' — DRAINAGE PIPE
 - 10' — SANITARY SEWER PIPE
 - 10' — STORMWATER DRAIN PIPE
 - 10' — TREE LINE
 - 10' — TELEPHONE (UNDERGROUND)
 - 10' — MONITORING WELL
 - 10' — FIRE HYDRANT
 - 10' — VALVE
 - 10' — DRAIN
 - 10' — POWER LINE (ABOVE GROUND)
 - 10' — POWER LINE (UNDERGROUND)
 - 10' — REMEDIAL ACTION FACILITY

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 & MCGOVERN, 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 NCVD 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 IN 1993.

X: CP-BASE
P: BL
2/12/09
SYNAPSE/MP/DANA 01-04/20080F&M/DANAB04.DWG

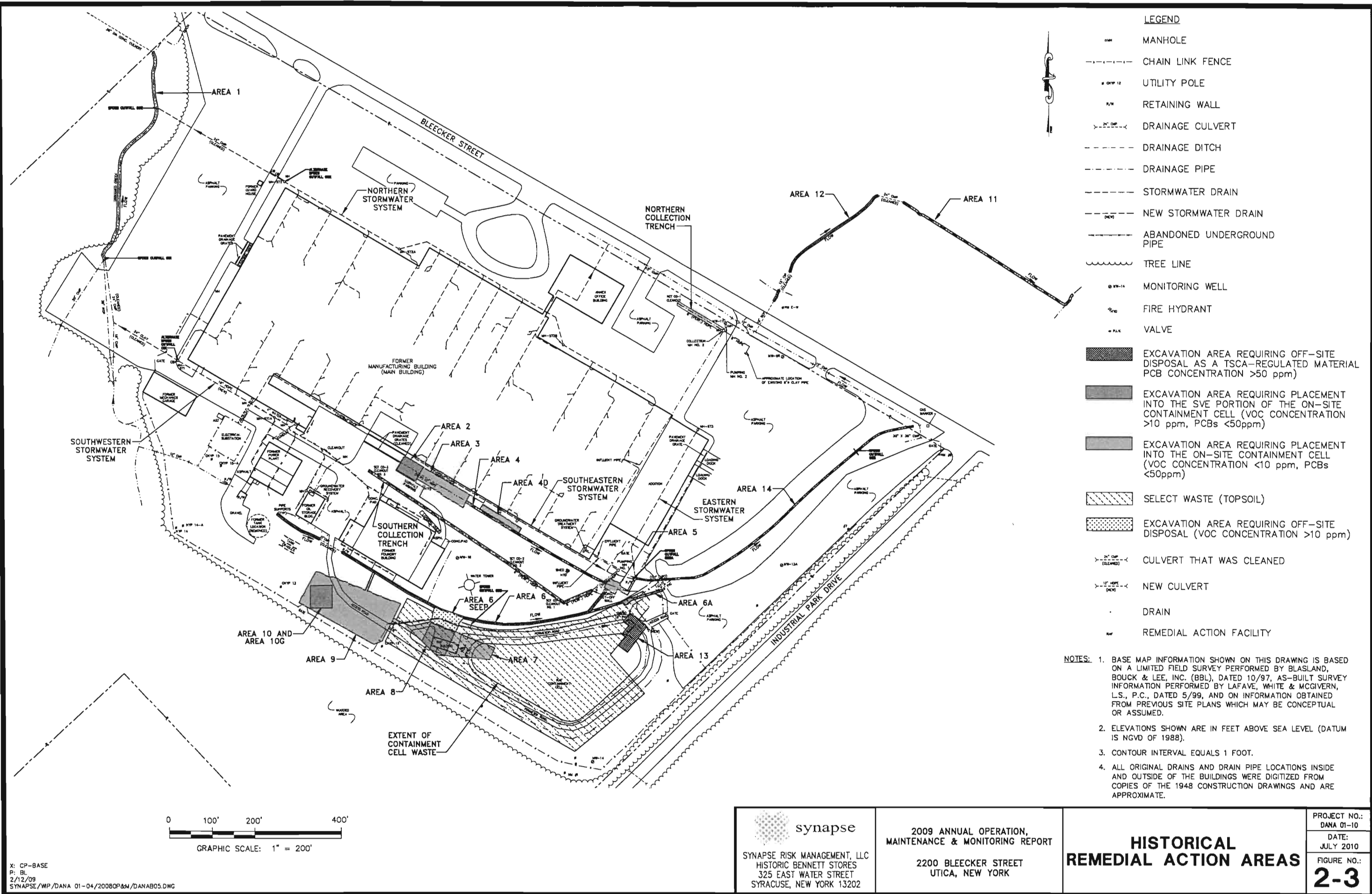
100' 0 100' 200'
GRAPHIC SCALE: 1" = 200'

synapse
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2009 ANNUAL OPERATION,
MAINTENANCE & MONITORING REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

FACILITY PLAN

PROJECT NO.:
DANA 01-10
DATE:
JULY 2010
FIGURE NO.:
2-2



3.0 REMEDIAL ACTION FACILITY

The RAF is situated in the mid-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.

The four groundwater monitoring wells (with the exception of MW-14), as well as the GTS are located outside of the perimeter fence of the RAF, and are discussed in Section 4 and Section 6, respectively.

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 providing access for cleaning, as needed. The leachate collection system components are noted on Figure 3-1.
- *Leachate Storage System* – Beginning in April 2009, Leachate is no longer pumped from the collection manhole and stored in an aboveground 5,000-gallon steel storage tank within a steel secondary containment structure as shown on Figure 3-2 – Building, Tank, and Piping Plan. The flow totalizer has been relocated to the collection manhole and continues to track the quantity of leachate generated, which is now pumped to Outfall 03B from the collection manhole. The aforementioned tank will remain empty and has been out of service since March 27, 2009.
- *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). 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. The RAF perimeter fence was also inspected to ensure facility security, and the facility overhead utilities were viewed and tested, in the building, as well.

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, as well as opening the manhole and conducting visual inspection of its components. As this is a lead/lag pumping system, lead duties were periodically changed between Pump No. 1 and Pump No. 2 during inspections.

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 is located in the RAF building, provides continuous monitoring information of the leachate collection manhole and previously the leachate storage tank. The ISACC system is generally accessed remotely via modem semi-monthly for data collection and management. In the event of an alarm condition, the ISACC system alerts designated Synapse personnel based on the guidelines set forth in the OM&M Manual and the ISACC 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 2009 calendar year. An annual total system check was performed on August 5, 2009, as required, and documented on Form F, included in Appendix B; one alarm was received on March 11, 2009, reviewed in Section 3.5.

The leachate storage system, which is housed in the center portion of the RAF Building, was inspected and total flow readings were recorded. The 5,000-gallon storage tank, containment system, and plumbing were viewed for leaks and any abnormalities. The tank was internally inspected, generally after leachate was removed, to assure the control of corrosion. The influent pipe is equipped with a flow totalizer, which was manually recorded during monthly inspections. The flow totalizer indicated that approximately 3,400 gallons were metered during 2009, totaling 73,600 gallons pumped and metered since leachate monitoring commenced in May 1999. The collected leachate sampling and disposal are reviewed in later subsections.

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 2009 calendar year 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);
- Drainage ditches (vegetation, riprap and culvert management); and
- Truck pad sump (pumping during leachate removal, Section 3.5).

Unscheduled Maintenance

Unscheduled maintenance activities associated with the RAF and site components that occurred during the 2009 calendar year 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 to include power washing of the leachate storage tank and truck loading area 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 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. Beginning in April 2009 (see Page 3-1) the leachate is allowed to collect in the collection manhole prior to batch sampling and discharge to State Pollutant Discharge Elimination System (SPDES) Outfall 03B via manually controlled pumps. The automated lead/lag pumping system is no longer used as the primary and backup system.

Leachate generation/collection is monitored by two methods; measuring the fill height in the collection manhole and through a flow totalizer. The operation of this unit, associated with the leachate collection system, is discussed in the OM&M Manual. One of the eight programmed ISACC channels is no longer used for tracking of tank filling events (i.e., water level in the tank).

The inline flow totalizer is read and the amount recorded during the monthly inspections as an additional method to monitor the leachate generation. Table 3-1 – Cumulative Leachate Generation provides a summary of the recorded flow from May 1999, inception, through November 19, 2008. Chart 3-1 – Cumulative Leachate Generation graphically represents the data from Table 3-1. A total of 900 gallons was metered during 2009, prior to the change over to Outfall 03B, comparable to an average flow of approximately 9.4 gallons per day (gpd). A total of 3,400 gallons were metered during 2009 including the tank fillings and Outfall 03B discharges. The general overall trend of yearly leachate production has increased from 2008 to 2009 as depicted in Table 3-2 – Leachate Generation Per Year, and Chart 3-2 – Leachate Generation Per Year. Although the calculated average flow was higher this year, it is contributed to hand operation and recording time, identified as non-continuous flow, therefore not interpreted as a containment cell structural issue.

3.5 Leachate Disposal

Prior to March 27, 2009 the leachate was stored in the on-site 5,000-gallon aboveground tank, with a steel secondary containment sized to contain 110% of the tank volume. The leachate required laboratory analysis prior to bulk batch disposal. Previous scheduling of the sampling events and subsequent disposal was based on tank level data monitored by the ISACC system. No disposal of the leachate to the municipal sanitary system was performed during 2009 under Permit No. GW-050 issued by the Oneida County Department of Water Quality and Water Pollution Control (OCDWPC). The Oneida County permit remains active and current with the OCDWPC, in the event that the leachate does not meet the effluent limitations specified for SPDES Outfall 03B. The collection manhole leachate level is visually observed during scheduled monthly RAF inspections. The manhole controls have been 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 two of the existing eight programmed ISACC (autodialer system) channels. The ISACC channels are programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole.

On August 14, 2008, leachate storage tank filling number LT-16 began and continued through March 11, 2009. On March 10, 2009 Synapse received an alarm condition from ISSAC indicating a 100% Full tank condition, documented on Form F, included in Appendix B. As a method to evaluate the ISSAC systems' functions accuracy and to confirm 100% Full condition, an instrument check was conducted by measuring the leachate level in the tank (96.75") with comparison to the ISSAC reading (96.20").

On March 11, 2009, after acceptable analytical sample results, approximately 920 gallons of leachate was discharged to Outfall 03B from tank, and approximately 500 gallons of leachate was transferred from the collection manhole to the tank. On March 27, 2009 UHC discharged approximately 4,600 gallons of leachate to SPDES Outfall 03B.

3.6 Summary

The RAF facility and associated components generally operated as planned through 2009. The monitoring and inspection continues, as necessary, to evaluate trends and the ongoing condition of the facility. The operation and maintenance performed during the 2009 calendar year 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; and
- Small areas of stressed vegetative cover, on the containment cell, were restored.

The evaluation of the data relating to the leachate generated and metered during 2009 (3,400 gallons), indicates an upward trend in leachate generated in comparison to 2008. This was attributed to the change to hand operation of the pumps, which can provide a misleading average. The average production rate for 2009 was approximately 9.4 gpd. The leachate system was converted to an Outfall 03B discharge, actuated on a quarterly basis. Three leachate batch discharges to Outfall 03B were conducted during 2009. Synapse concludes that the RAF performed as designed during 2009.

3.7 Tables

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

**TABLE 3-1
CUMULATIVE LEACHATE GENERATION**

**2009 ANNUAL OM&M 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**

**2009 ANNUAL OM&M 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

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**

**2009 ANNUAL OM&M 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

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

2009 ANNUAL OM&M REPORT
2200 BLEEKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

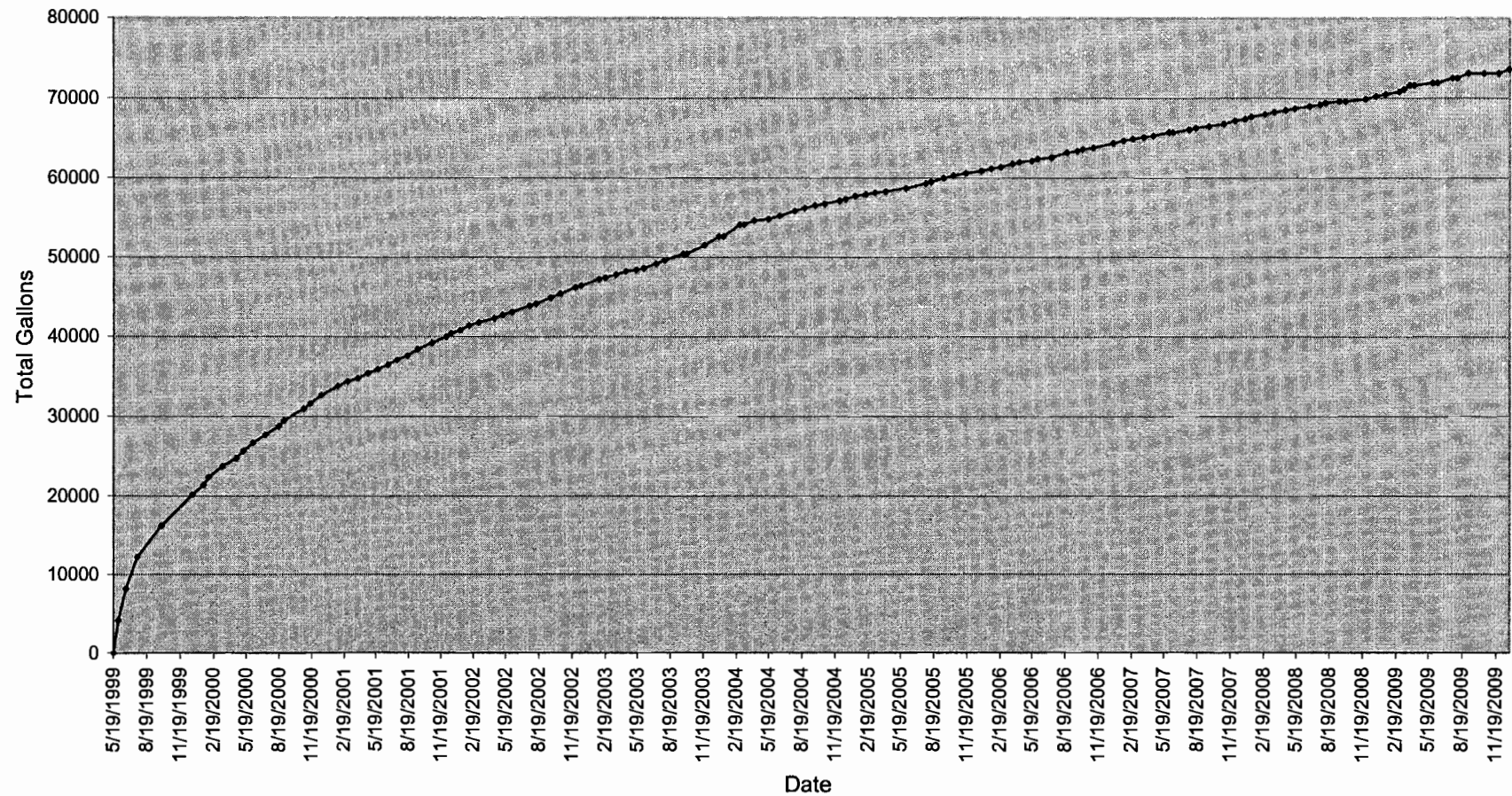
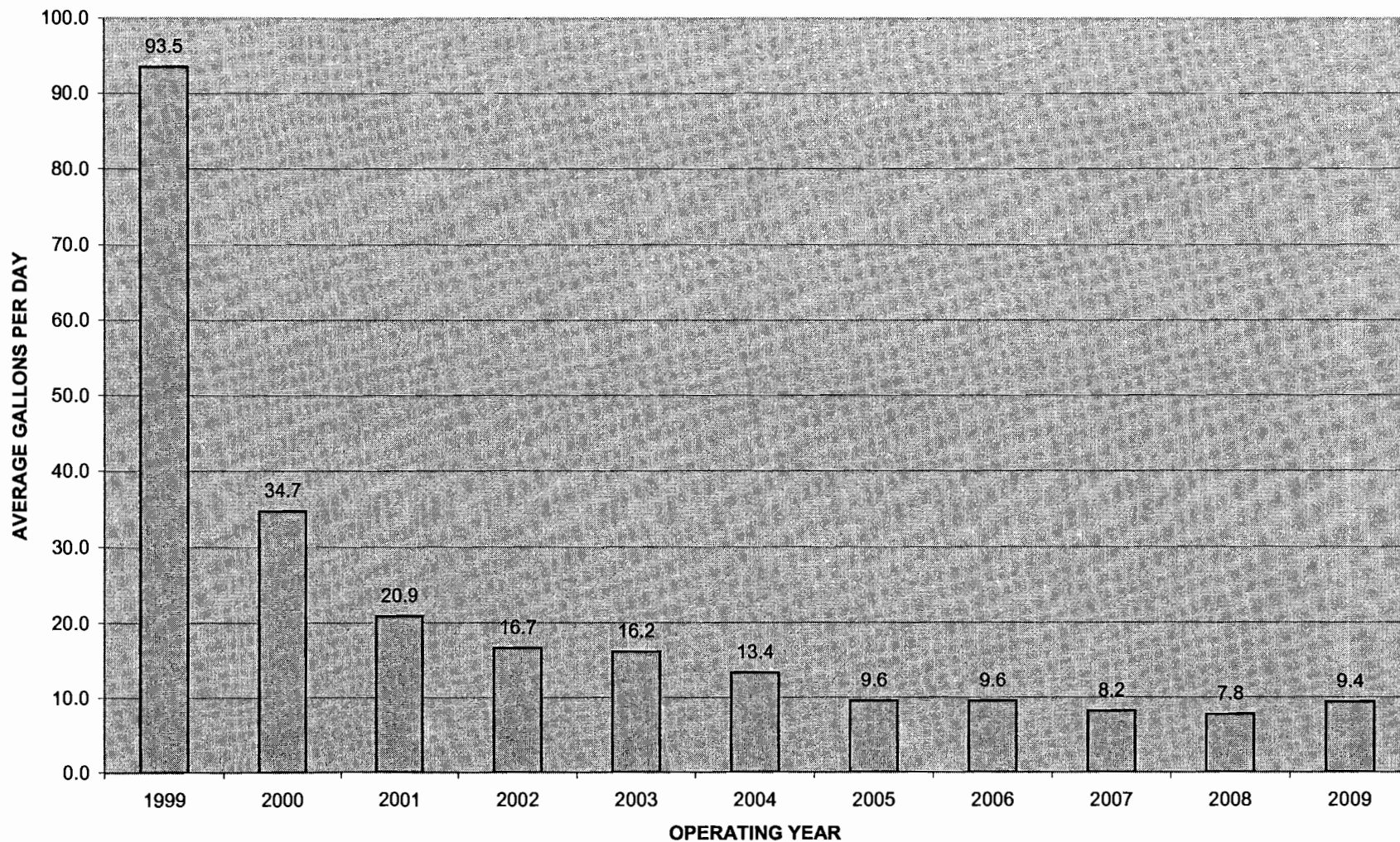


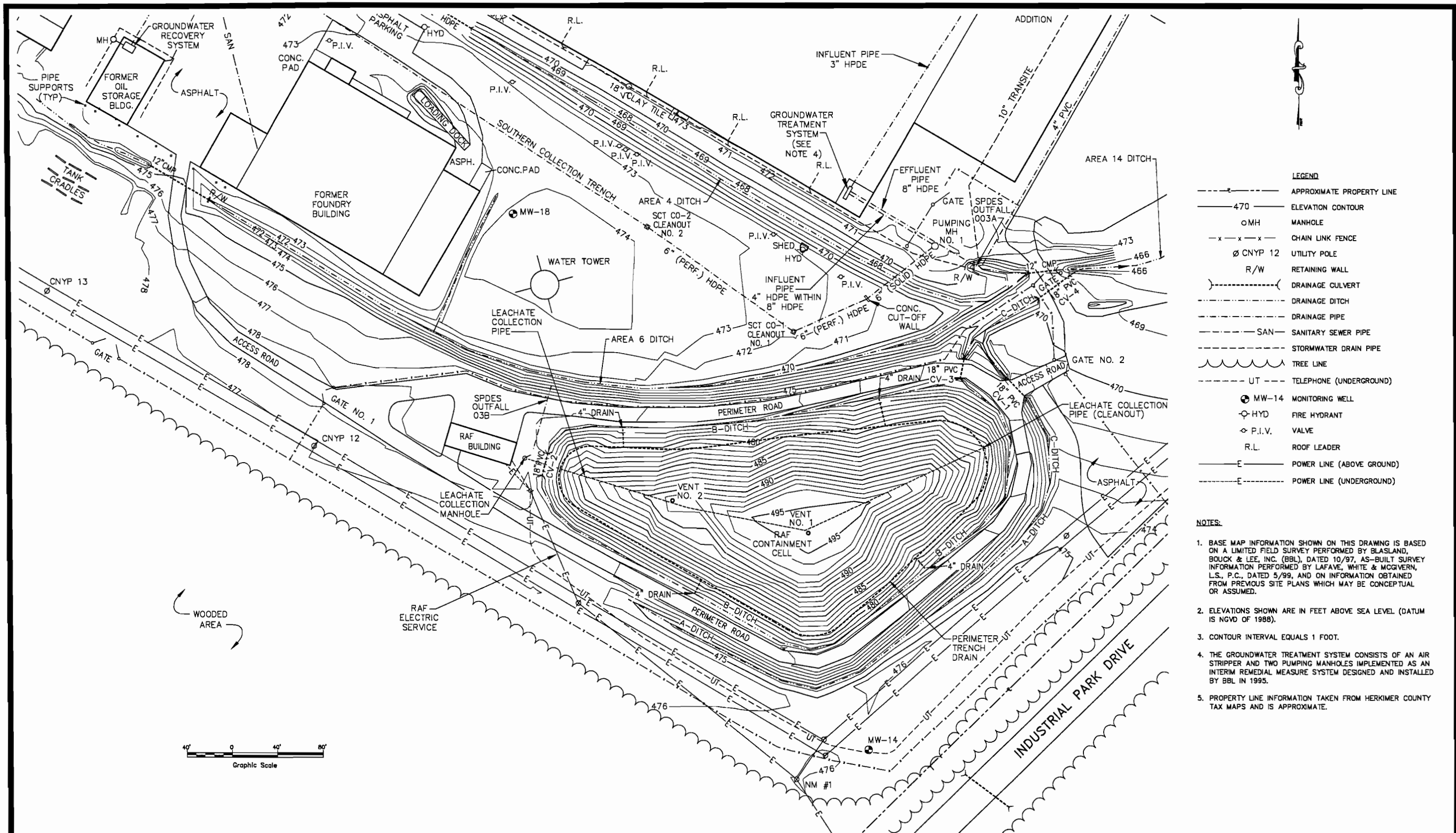
CHART 3-2
LEACHATE GENERATION PER YEAR

2008 ANNUAL OM&M 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

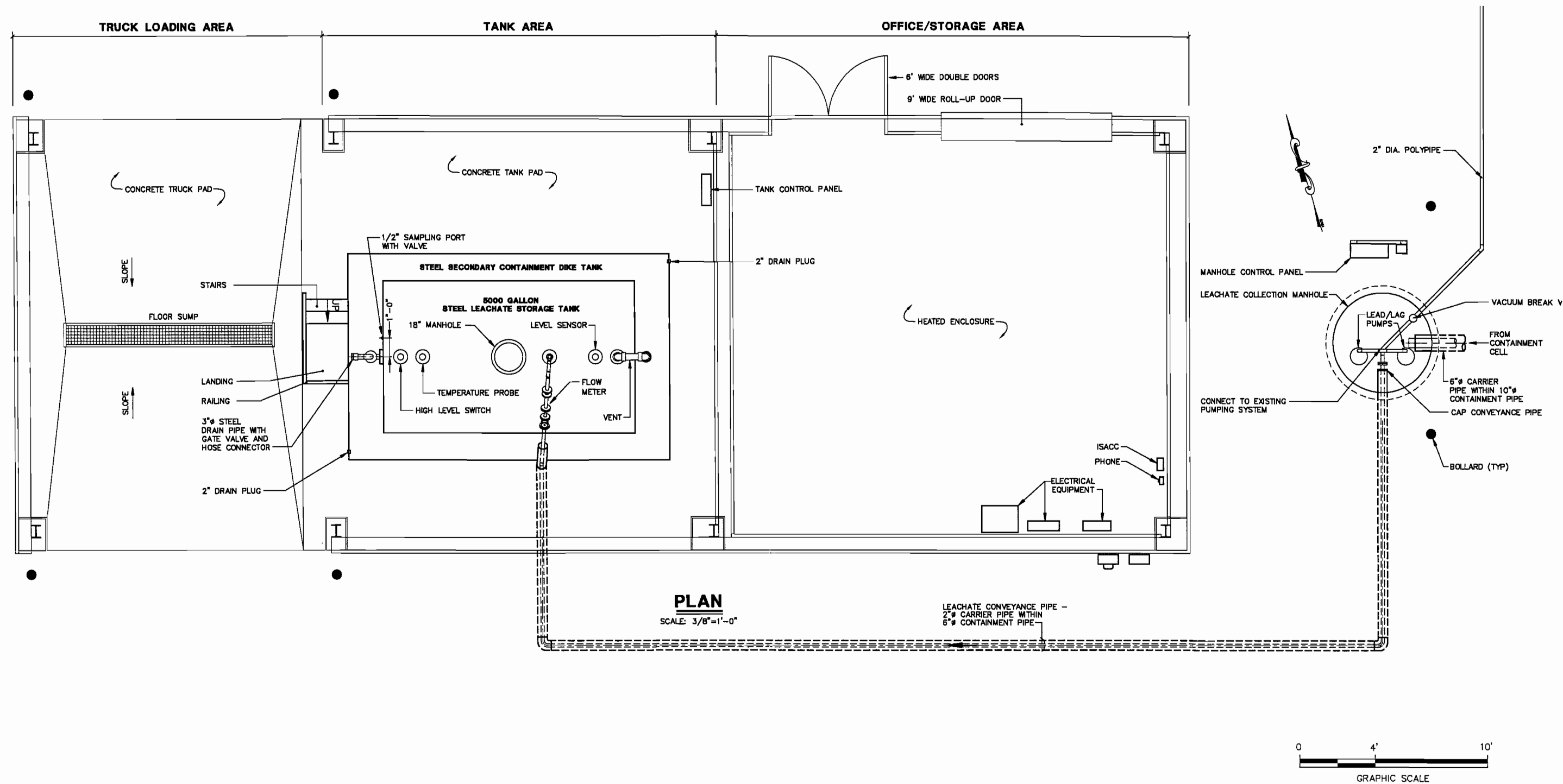


- LEGEND**
- APPROXIMATE PROPERTY LINE
 - 470 ELEVATION CONTOUR
 - MH MANHOLE
 - x - x - CHAIN LINK FENCE
 - Ø CNYP 12 UTILITY POLE
 - R/W RETAINING WALL
 - (---) DRAINAGE CULVERT
 - DRAINAGE DITCH
 - DRAINAGE PIPE
 - SAN- SANITARY SEWER PIPE
 - STORMWATER DRAIN PIPE
 - TREE LINE
 - UT --- TELEPHONE (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 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. 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
 2/12/09
 SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB11.DWG

SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT STORES 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	REMEDIAL ACTION FACILITY PLAN		PROJECT NO.:
				DANA 01-10
				DATE:
				JULY 2010
				FIGURE NO.:
				3-1



X: FOUNDAT.DWG
D28BW
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB10.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2009 ANNUAL OPERATION,
MAINTENANCE & MONITORING REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

BUILDING, TANK, AND PIPING PLAN

PROJECT NO.:
DANA 01-10
DATE:
JULY 2010
FIGURE NO.:
3-2

4.0 GROUNDWATER MONITORING

This section presents the results of the semi-annual groundwater monitoring events conducted at the Property in 2009. The Property OM&M Manual details the procedures that were followed during groundwater monitoring. The FER details 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. The monitoring wells are located to provide groundwater quality data for site-specific RA areas and verify 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 water table and intersect 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, 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 groundwater monitoring program, water level elevations were measured from the aforementioned monitoring wells on April 13, 2009 and October 15, 2009. Water levels in the cleanouts for the NCT and SCT were measured during the 2009 events, as well. Monitoring well water 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 water levels were measured consecutively, on the same day, prior to sampling or other activities. Water level measurements were recorded on a dedicated field sheet, Water Level Field Logs – Form D and are provided in Appendix D. The water level measurements were converted to elevations based on as-built survey information. The water levels for the two groundwater sampling events conducted in 2009 are shown in Table 4-1 – 2009 Groundwater Elevation Summary. Note that MW-17 was found to have insufficient water to allow for sample collection, during both sampling events. This is attributed to the installation of Pumping Manhole No. 2, as part of the 2002 modifications to the GTS, 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 4-1 – Overburden Groundwater Elevation Contour Map - April 13, 2009, and Figure 4-2 – Overburden Groundwater Elevation Contour Map – October 15,

2009. A summary of water levels from 1999 to 2009 is provided in Table 4-2 – Cumulative Groundwater Elevations.

4.3 Groundwater Sampling

Groundwater samples were obtained during two groundwater monitoring events conducted on April 13 and 14, 2009 and October 15 and 16, 2009, as part of the OM&M program. Groundwater samples were collected from monitoring wells MW-6R, MW-13A, MW-14, and MW-18. As discussed in Section 4.1, MW-17 had insufficient water during both sampling events, and as such, a sample could not be collected.

Based on the guidance set forth in the OM&M Manual, the groundwater sampling events completed in 2009 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.

To assure that the groundwater samples were representative of the shallow groundwater aquifer, a minimum of three static well volumes were purged from each monitoring well prior to sample collection. Groundwater field parameters were obtained from each monitoring well just prior to sampling, and included water levels, pH, conductivity, dissolved oxygen, turbidity, and temperature. The wells were observed to have moderate recharge capacity. Well purging was performed using a disposable Teflon® bailer. The purged groundwater was containerized and transferred to the on-site leachate collection manhole, part of the RAF, for subsequent disposal.

Groundwater samples were collected using a new disposable Teflon® bailer for each monitoring well. During the April and October 2009 groundwater sampling events, samples to be analyzed for VOCs and PCBs were collected on the first day of each sampling event. Samples to be analyzed for metals were collected on the second day, 24 hours after purging the well, to limit turbidity in the samples collected. 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 for all parameters during each sampling event. 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 and October 2009 samples were submitted to Life Science Laboratories of East Syracuse, New York. Table 4-3 – Groundwater Constituents, Methods, and Practical Quantification Limits, details the groundwater sample analytical requirements. The Groundwater Sampling Logs - Form E, used during 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 – 2009 Groundwater Analytical Results, summarizes the groundwater analytical data from the two semi-annual sampling events. Table 4-5 – Cumulative Groundwater Analytical Results, provides a historic summary of the groundwater analytical results from 1999 through 2009. The original laboratory analytical data for 2009 were provided under separate cover to NYSDEC upon receipt from the laboratory, and are provided in Appendix F – Groundwater Analytical Data. The analytical laboratory did not achieve the 0.05 micrograms per liter (ug/l) method detection limit (MDL) for PCBs, from any of the monitoring wells during the April 2009 or October 2009 sampling events.

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

MW-6R

- Analytical results for VOCs indicated no detectable concentrations for both 2009 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2009 sampling events;
- Chromium, copper, lead and zinc were detected during the April 2009 sampling event at 12 ug/l, 36 ug/l, 24 ug/l and 80 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l, 25 ug/l and 2000 ug/l, respectively;
- Zinc was detected during the October 2009 sampling event at a concentration of 27 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/l; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-13A

- Analytical results for VOCs indicated no detectable concentrations for both 2009 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2009 sampling events;
- Chromium and zinc were detected during the April 2009 sampling event at 11 ug/l and 26 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l and 2000 ug/l, respectively;
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-14

- Analytical results for VOCs indicated no detectable concentrations for both 2009 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2009 sampling events;

- Zinc was detected during the April 2009 sampling event at 16 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/l; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-17

- Monitoring well had insufficient water to allow sample collection during both 2009 events.

MW-18

- Vinyl chloride (VC) was detected at a concentration of 15 ug/l in the primary and duplicate samples, respectively, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the April 2009 sampling event. All other VOCs were not detected at concentrations above MDLs;
- VC was detected at a concentration of 16 ug/l and 17 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 2009 sampling event. All other VOCs were not detected at concentrations above MDLs;
- Chromium, copper, lead and zinc were detected during the April 2009 sampling event at 16 ug/l, 15 ug/l, 15 ug/l and 42 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l, 25 ug/l and 2000 ug/l, respectively;
- Analytical results for PCBs indicated no detectable concentrations for both 2009 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 April and October 2009 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 water to measure or sample, as a result of the NCT effectively lowering the groundwater table.

The groundwater quality from both the April and October 2009 groundwater sampling events are generally consistent with historic data. VC has been detected in monitoring well MW-18 above its analytical MDL for eight consecutive sampling events. With the exception of the October 2008 sampling event VC concentrations detected at MW-18 have shown indications since the fall of 2006 VC is a daughter product demonstrating the degradation of TCE. 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.

Concentration of select metals did not exceed TOGS 1.1.1 guidance values and have not demonstrated exceedances since the RA. Detectable concentrations of PCBs were not identified in groundwater from any of the current monitoring locations. It should be noted that the contract laboratory did not achieve the PCB MDL, of 0.05 ug/l, during the April or October 2009 sampling events.

4.6 Tables

- 4-1 2009 Groundwater Elevation Summary
- 4-2 Cumulative Groundwater Elevations
- 4-3 Groundwater Constituents, Methods, and Practical Quantification Limits
- 4-4 2009 Groundwater Analytical Results
- 4-5 Cumulative Groundwater Analytical Results

**TABLE 4-1
2009 GROUNDWATER ELEVATION SUMMARY**

**2009 ANNUAL OM&M 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: 4/13/09						
MW-6R	462.69	10.52	10.51	465.47	4.03	461.44
MW-13A	467.30	11.07	10.99	469.23	2.56	466.67
MW-14	475.71	12.94	12.99	478.45	3.56	474.89
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.73	11.72	475.96	5.12	470.84
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: 10/15/09						
MW-6R	462.69	10.52	10.45	465.47	4.27	461.20
MW-13A	467.30	11.07	11.07	469.23	3.65	465.58
MW-14	475.71	12.86	12.85	478.37	4.57	473.80
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.78	11.73	475.96	5.82	470.14
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 4-2
CUMULATIVE GROUNDWATER ELEVATIONS**

**2009 ANNUAL OM&M 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

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.

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

2009 ANNUAL OM&M 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. CRQLs shown for metals of concern are provided for guidance and may not always be achievable.

TABLE 4-4
2009 GROUNDWATER ANALYTICAL RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

April 2009 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	041309/041409
Date Sampled			4/13-14/2009	4/13-14/2009	4/13-14/2009	4/13-14/2009	4/13-14/2009	4/13-14/2009
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	15	15
Metals								
Chromium	10	50	<10	<10	<10	NS	<10	<10
Copper	10	200	<10	<10	<10	NS	<10	<10
Lead	10	25	<10	<10	<10	NS	<10	<10
Zinc	10	2,000	20	19	21	NS	24	24
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1221	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1232	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1242	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1248	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1254	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1260	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1

October 2009 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	101509/101609
Date Sampled			10/15-16/2009	10/15-16/2009	10/15-16/2009	10/15-16/2009	10/15-16/2009	10/15-16/2009
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	16	17
Metals								
Chromium	10	50	<10	<10	<10	NS	<10	12
Copper	10	200	<10	<10	<10	NS	<10	<10
Lead	10	25	<10	<10	<10	NS	<10	10
Zinc	10	2,000	27	<10	<10	NS	<10	17
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1221	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1232	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1242	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1248	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1254	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1260	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1

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.

**TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

**2009 ANNUAL OM&M 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	
				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
MW-3	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Trichloroethylene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Chromium	ug/l	50	4.4	4.6B	<10	<10	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Copper	ug/l	200	16.8	6.1B	<10	<10	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Lead	ug/l	25	5.5	4	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	Zinc	ug/l	2,000	15.1	16.1B	13	38	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-3	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	Chromium	ug/l	50	19.9	2.2B	<10	<10	<10	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	12	<10	
MW-6R	Copper	ug/l	200	45	6.7B	<10	<10	<10	58	11	<10	34	17	<10	<10	10	<10	<10	<10	<10	<10	<10	36	<10	
MW-6R	Lead	ug/l	25	7.4	3.6	<5	<5	<5	23	<10	<10	14	13	<10	<10	<10	<10	<10	<10	13	<10	11	24	<10	
MW-6R	Zinc	ug/l	2,000	49.5	26.5	26.0	47	19	140	64	29	100	24	<10	19	12	13	37	<10	<10	<10	20	11	80	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-6R	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	
MW-13A	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	
MW-13A	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	
MW-13A	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	
MW-13A	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	
MW-13A	Chromium	ug/l	50	7.8B	4.8E	19.0	<10	<10	<10	<10	200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	
MW-13A	Copper	ug/l	200	45	5.3B	<10	<10	<10	<10	14	20	<10	14	<10	<10	14	<10	<10	<10	<10	<10	<10	<10	<10	
MW-13A	Lead	ug/l	25	9.2	2.3	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	<10	<10	<10	<10	
MW-13A	Zinc	ug/l	2,000	38.1	10.7B	29.0	47	10	<10	18	92	<10	19	29	12	20	<10	14	11	24	<10	19	12	26	
MW-13A	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	
MW-13A	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	
MW-13A	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	
MW-13A	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	
MW-13A	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	
MW-13A	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								

**TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003**

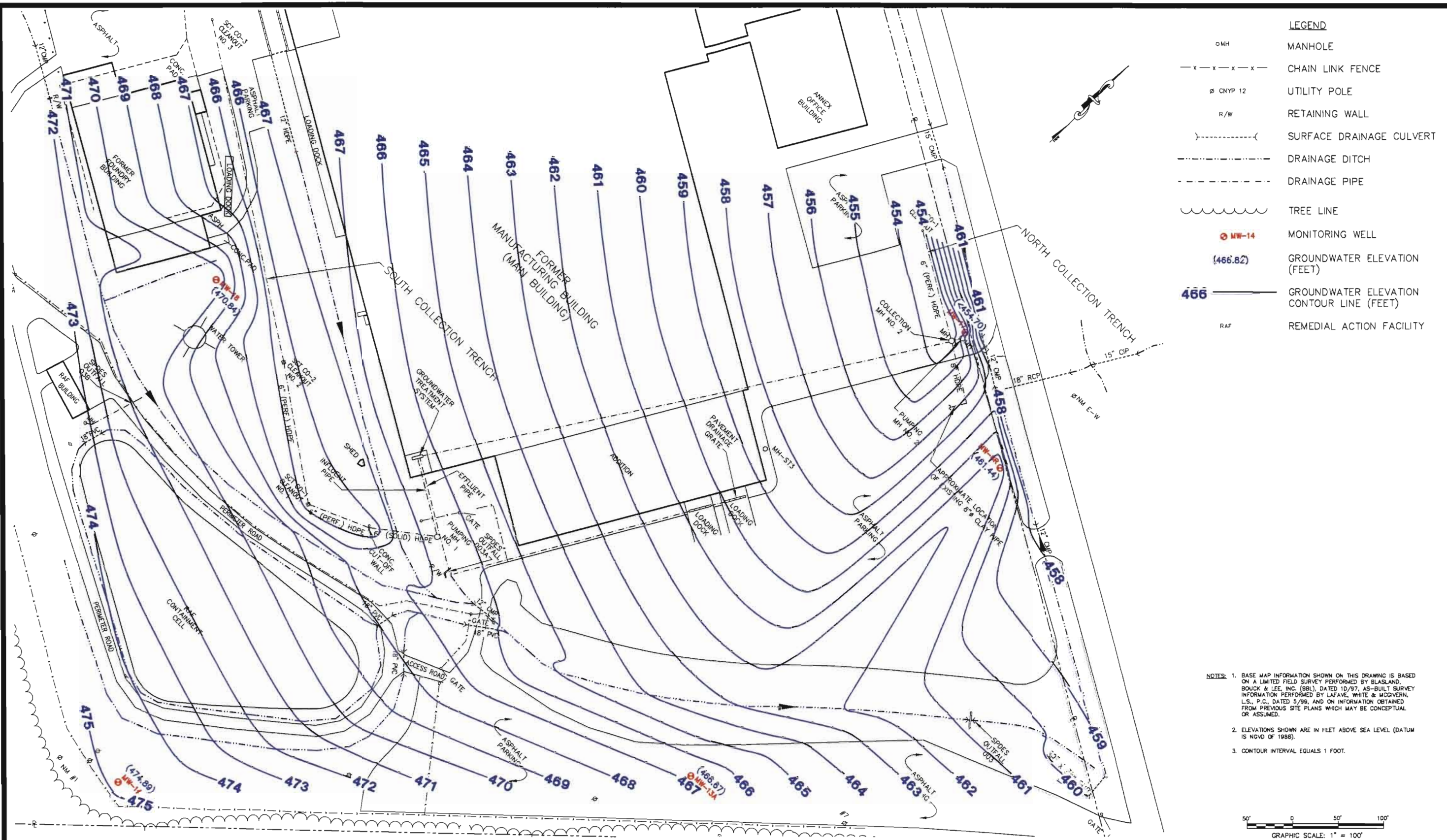
Monitoring Well ID	Parameters	Units	NYSDEC Guidance	1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October	April	October	April	October
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	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		
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		
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		
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		
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		
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		
MW-14	Lead	ug/l	25	8	<5	<5	<5	<5	<10	<10	<10	<10	10	<10	<10	13	<10	<10	<10	<10	<10	<10	<10		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
MW-17	Trichloroethylene	ug/l	5	<5	25	22	22	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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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	<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	<10		
MW-18	Zinc	ug/l	2,000	172	51	16	58	21	22	<10	<10	11	17	18	<10	13	<10	63	<10	<10	<10	24	26		
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		
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		
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		
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		
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		
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	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10		
MW-18	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10																			

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.

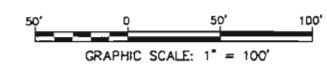
4.7 Figures

- 4-1 Overburden Groundwater Elevation Contour Map - April 13, 2009
- 4-2 Overburden Groundwater Elevation Contour Map - October 15, 2009



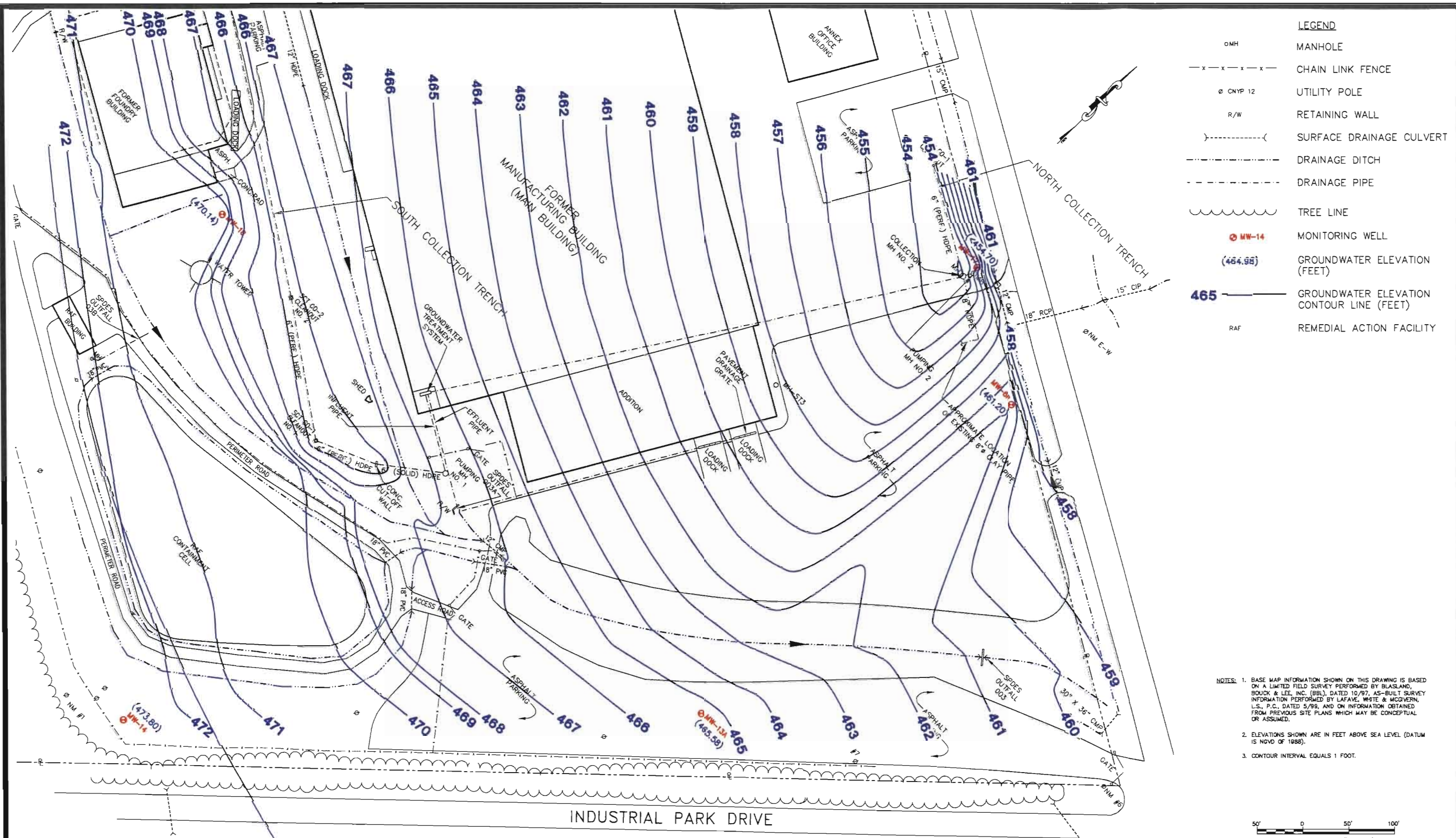
- LEGEND**
- MH MANHOLE
 - x - x - x - CHAIN LINK FENCE
 - Ø CNY 12 UTILITY POLE
 - R/W RETAINING WALL
 - - - - - SURFACE DRAINAGE CULVERT
 - - - - - DRAINAGE DITCH
 - - - - - DRAINAGE PIPE
 - ~~~~~ TREE LINE
 - MW-14 MONITORING WELL
 - (466.82) GROUNDWATER ELEVATION (FEET)
 - 466 GROUNDWATER ELEVATION CONTOUR LINE (FEET)
 - RAF REMEDIAL ACTION FACILITY

- NOTES:**
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBLI), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAYE, WHITE & MCGOVERN, 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 1986).
 3. CONTOUR INTERVAL EQUALS 1 FOOT.



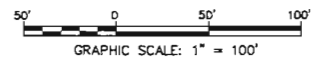
X: CP-BASE
P: BL
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB01.DWG

SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT STORES 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP APRIL 13, 2009	PROJECT NO.: DANA 01-10 DATE: JULY 2010 FIGURE NO.: 4-1
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- LEGEND**
- MH MANHOLE
 - x - x - x - CHAIN LINK FENCE
 - CNY 12 UTILITY POLE
 - R/W RETAINING WALL
 - - - - - SURFACE DRAINAGE CULVERT
 - - - - - DRAINAGE DITCH
 - - - - - DRAINAGE PIPE
 - ~~~~~ TREE LINE
 - MW-14 MONITORING WELL
 - (454.98) GROUNDWATER ELEVATION (FEET)
 - 465 GROUNDWATER ELEVATION CONTOUR LINE (FEET)
 - RAF REMEDIAL ACTION FACILITY

- 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 & MCGOVERN, 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.



X: CP-BASE
P: B
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB02.DWG

SYNAPSE RISK MANAGEMENT, LLC 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 15, 2009	PROJECT NO.: DANA 01-10 DATE: JULY 2010 FIGURE NO.: 4-2
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5.0 PROPERTY 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 1, 2007.

In March 2009 UHC received the SPDES Permit modification, requesting liquids generated from the containment cell to be allowed to accumulate in the leachate collection manhole, and no longer be directed to the 5,000-gallon aboveground storage tank. Based on volume of the leachate collection manhole and the current average liquid generation rate of 9.4 gpd, three batch discharges, estimated between 500 and 600 gallons, were discharged from the collection manhole to Outfall 03B during 2009. The collection manhole leachate is visually observed during scheduled monthly RAF inspections and maintained by the existing automatic pump controls. 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 (autodialer system) channels. The ISACC channel is programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole.

The SPDES Permit is specific to activities conducted at the Property, including the 2200 Bleecker-owned Main Building, and permits the discharge water from three 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 however has no control of 2200 Bleecker activities and those of its tenants. A significant portion (65%) 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 and its tenants, and CPTC's Outfall 03A, permitted under SPDES Permit No. NY0108537 (see Section 6.4). The following section reviews Outfall contributions and construction, routine monitoring and subsequent results, specialized studies and testing, as well as, unscheduled maintenance.

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 Bleecker Contributions

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

Outfall 002

UHC Contribution

- Parking lot catch basins (overland flow).

2200 Bleecker Contributions

- Building roof leaders;
- Boiler blowdown (periodic);
- Sprinkler system drains (periodic); 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); and
- Parking lots.

2200 Bleecker Contributions

- Building roof leaders;
- Boiler blowdown (periodic);
- 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 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 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 monitoring 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 monitoring location was constructed April 2009 in an existing unnamed tributary to the Mohawk River (former Area 6 drainage ditch), at the southeastern 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.

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 Outfall 03B have been prescribed 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 have 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	°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

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NYSDEC SITE NO. 622003

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
°F = 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 2009 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 were three excursions of compliance levels for the above parameters in 2009 as follows.

- Oil and Grease was identified in Outfall 003 at a concentration of 16 milligrams per liter (mg/l). Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on April 18, 2009 and a Report of Noncompliance Event was prepared;
- Oil and Grease was identified in Outfall 002 at a concentration of 33 mg/l. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on June 25, 2009 and a Report of Noncompliance Event was prepared; and
- Oil and Grease was identified in Outfall 001 at a concentration of 34 mg/l. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on November 2, 2009 and a Report of Noncompliance Event was prepared.

Oil and Grease levels at all three will continue to be monitored as set forth in the Permit. 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 Oil and Grease identified at the outfalls may be related to contributions from the 2200 Bleecker Main Building. It is our understanding that 2200 Bleecker, LLC has prepared and submitted a SPDES Permit application to NYSDEC for its operations and those of its tenants.

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 is 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].

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According to the above Permit-specified schedule, no effluent toxicity sampling was scheduled to be conducted during 2009 at the Outfalls.

5.3.4 Outfall 03B

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

Parameter	Units	Limits	3/2009	6/2009	8/2009	11/2009
Flow Rate	gpd	8.2	8	8	8	8
Temperature	°F	90	61	63	63	62
pH	S.U.	6.0-9.0	7.7	7.3	7.5	7.6
Solids, Total Suspended	mg/l	10	<4	<4	<4	<4
Oil & Grease	mg/l	15	2.9	<5	<5	<5
Copper, Total	ug/	500	7.1	13.9	6.4	13.8
Nickel, Total	ug/	2000	6.3	6.2	6.4	7
Zinc, Total	ug/	120	17.4	8.2	17.9	7.2
Lead, Total	ug/	10	<5	2.5	<5	<5
Bis-(2-ethylhexyl) phthalate	ug/	10	1.3	<0.8	1	<0.8
Methoxychlor	ug/	18	<0.05	<0.05	<0.05	<0.05

Table notes:

S.U. = Standard Units
°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 2009 UHC received approval of the requested SPDES Permit modification from NYSDEC that facilitated the construction of Outfall 03B.

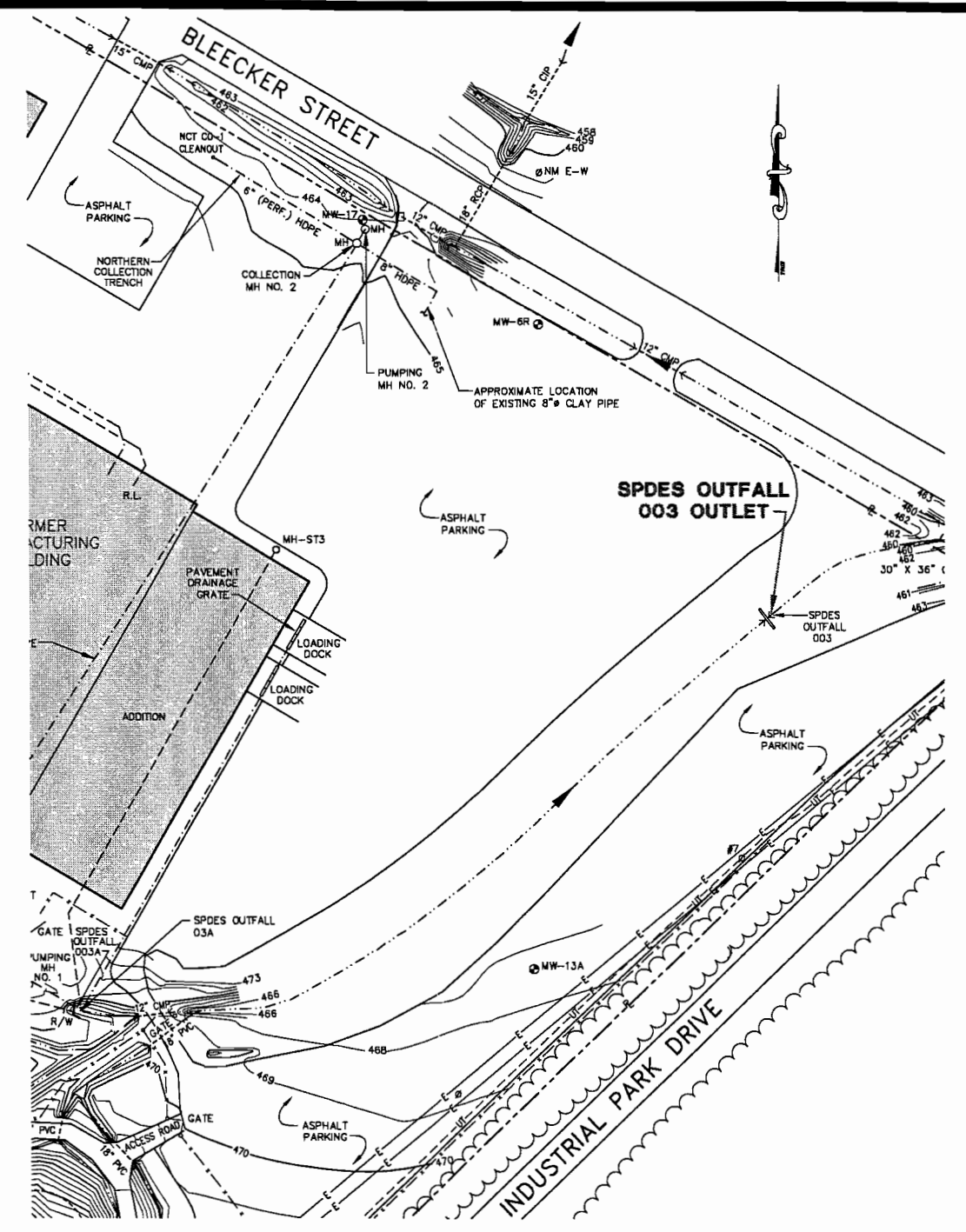
There were three excursions of the compliance level for Oil and Grease, identified in Outfall 001, 002 and 003. The New York State Department of Environmental Conservation was notified of these excursions and a Report of Noncompliance Event was prepared.

As set forth in the Permit specified schedule, no effluent toxicity sampling was conducted during 2009, effluent toxicity sampling will continue at Outfall 003 during 2010.

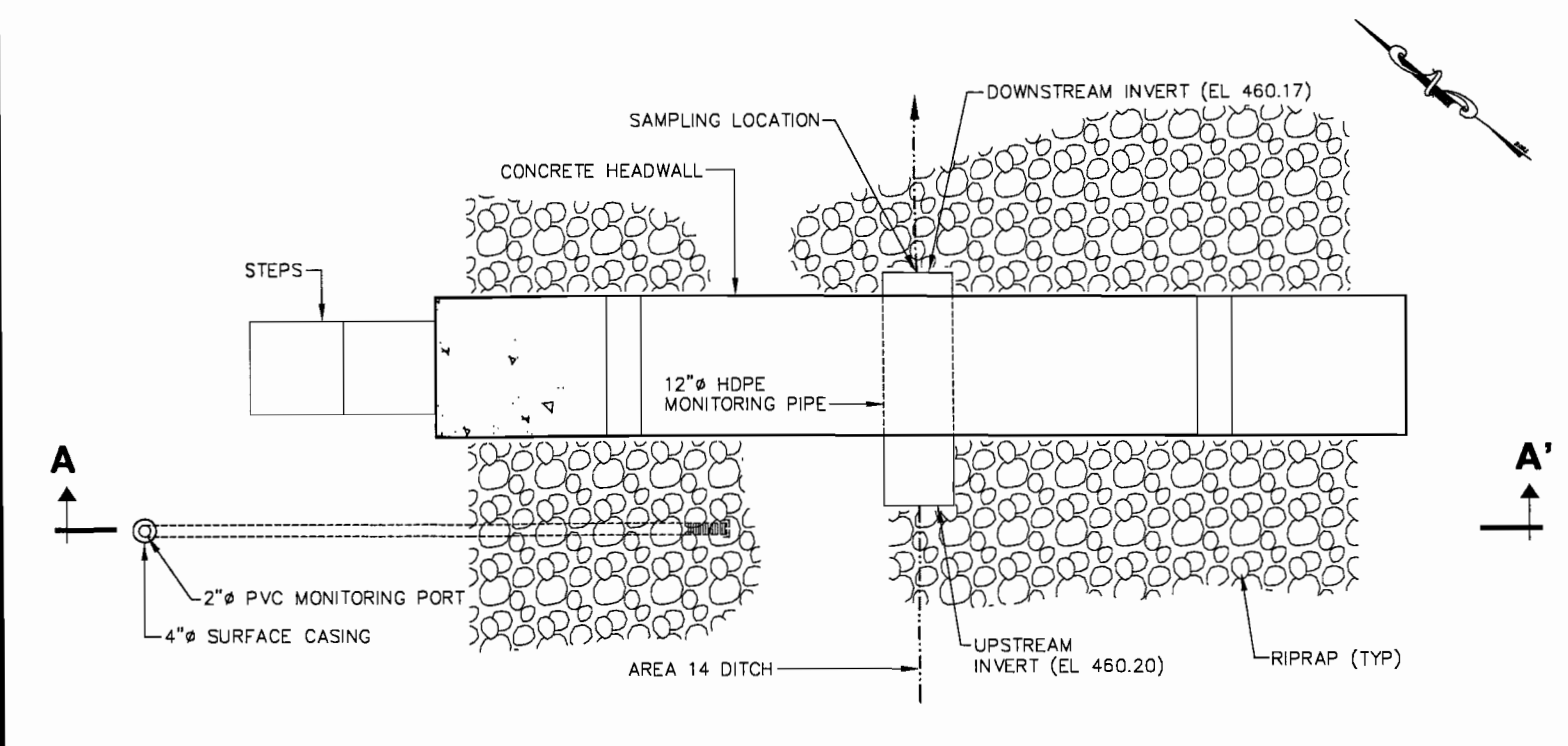
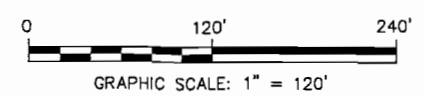
Operations conducted at the property by Coolidge Utica and its tenants, which UHC has no control over, have the potential to directly impact the effluent water quality monitored by UHC at its permitted outfalls. Given the analytical results, the source of the toxicity appears to be related to contributions from the Coolidge Utica building. Specifically, based on the SPDES Stormwater Action Plan (June 2000), Outfalls 001 and 002 receive significant contributions from the 2200 Bleecker Main Building.

5.5 Tables

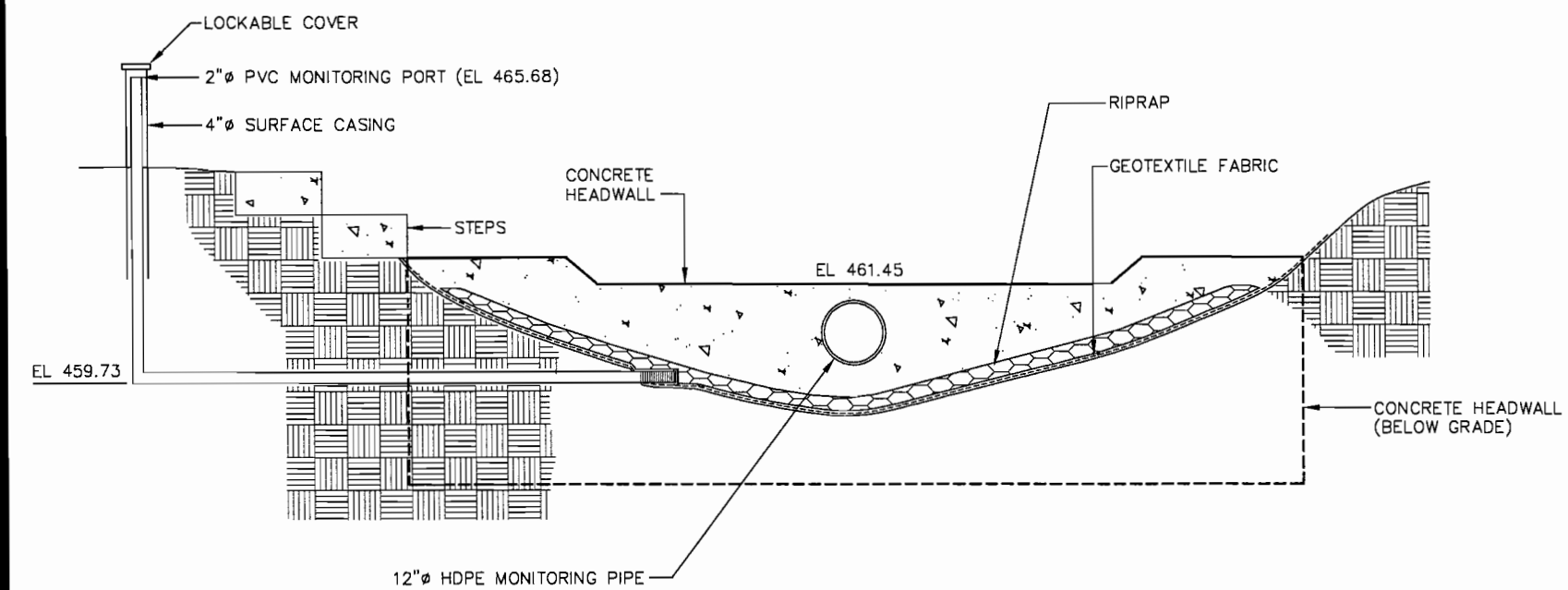
Table 5-1 Cumulative Summary of SPDES Monitoring Results



OUTLET LOCATION PLAN
SCALE: 1" = 120'



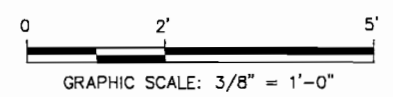
PLAN



SECTION A-A'

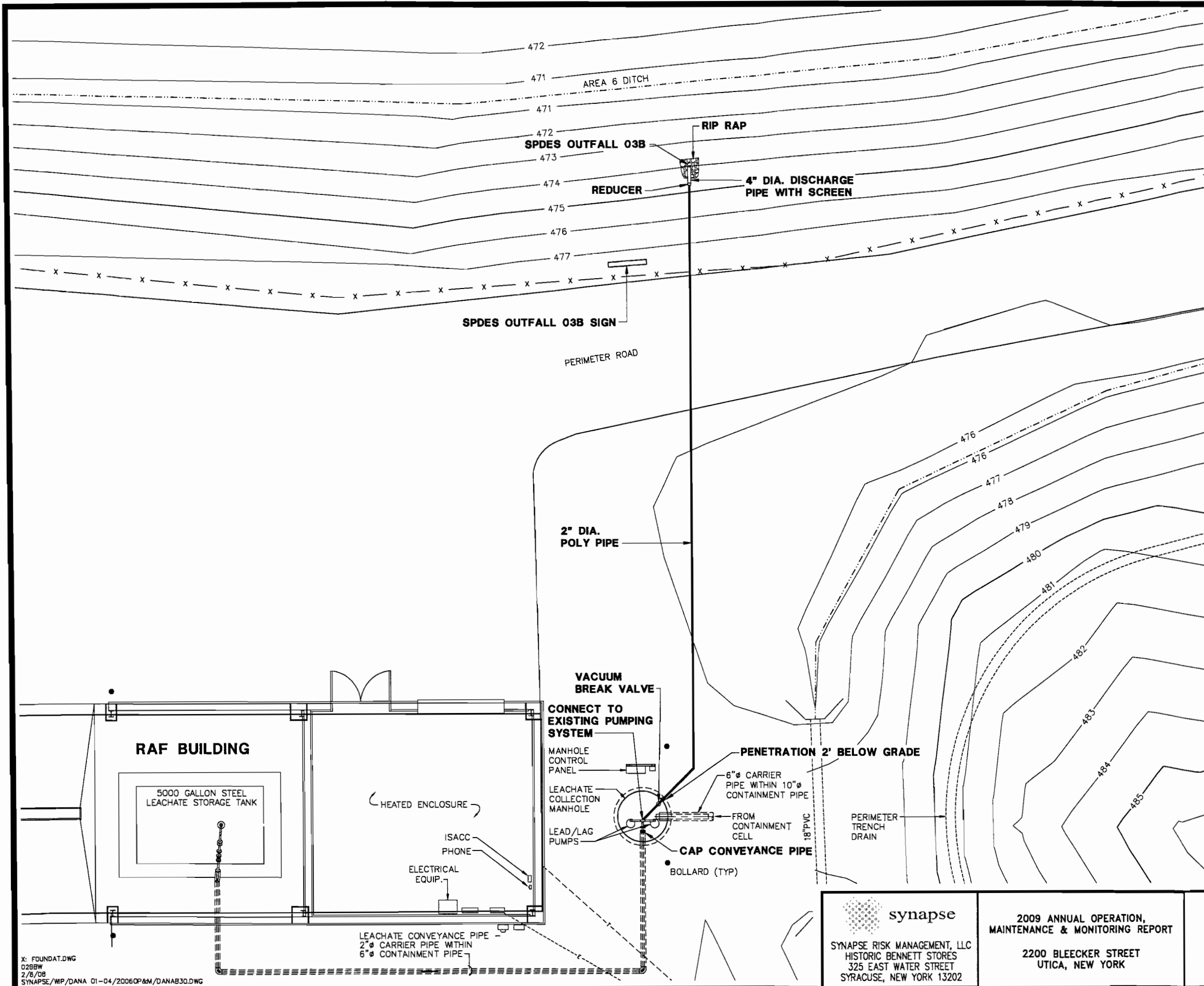
SPDES OUTFALL 003 OUTLET PLAN AND SECTION

SCALE: 3/8" = 1'-0"



X: CP-BASE
P: D2BBW
2/12/09
SYNAPSE/MP/DANA 01-04/20080P&M/DANAB08.DWG

SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT STORES 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	SPDES OUTFALL 003 PLAN AND SECTION	PROJECT NO.: DANA 01-10 DATE: JULY 2010 FIGURE NO.: 5-3
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LEGEND

- 470 — ELEVATION CONTOUR
- x — CHAIN LINK FENCE
- — — — — DRAINAGE CULVERT
- — — — — DRAINAGE DITCH
- T — — — TELEPHONE (UNDERGROUND)
- 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 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. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.



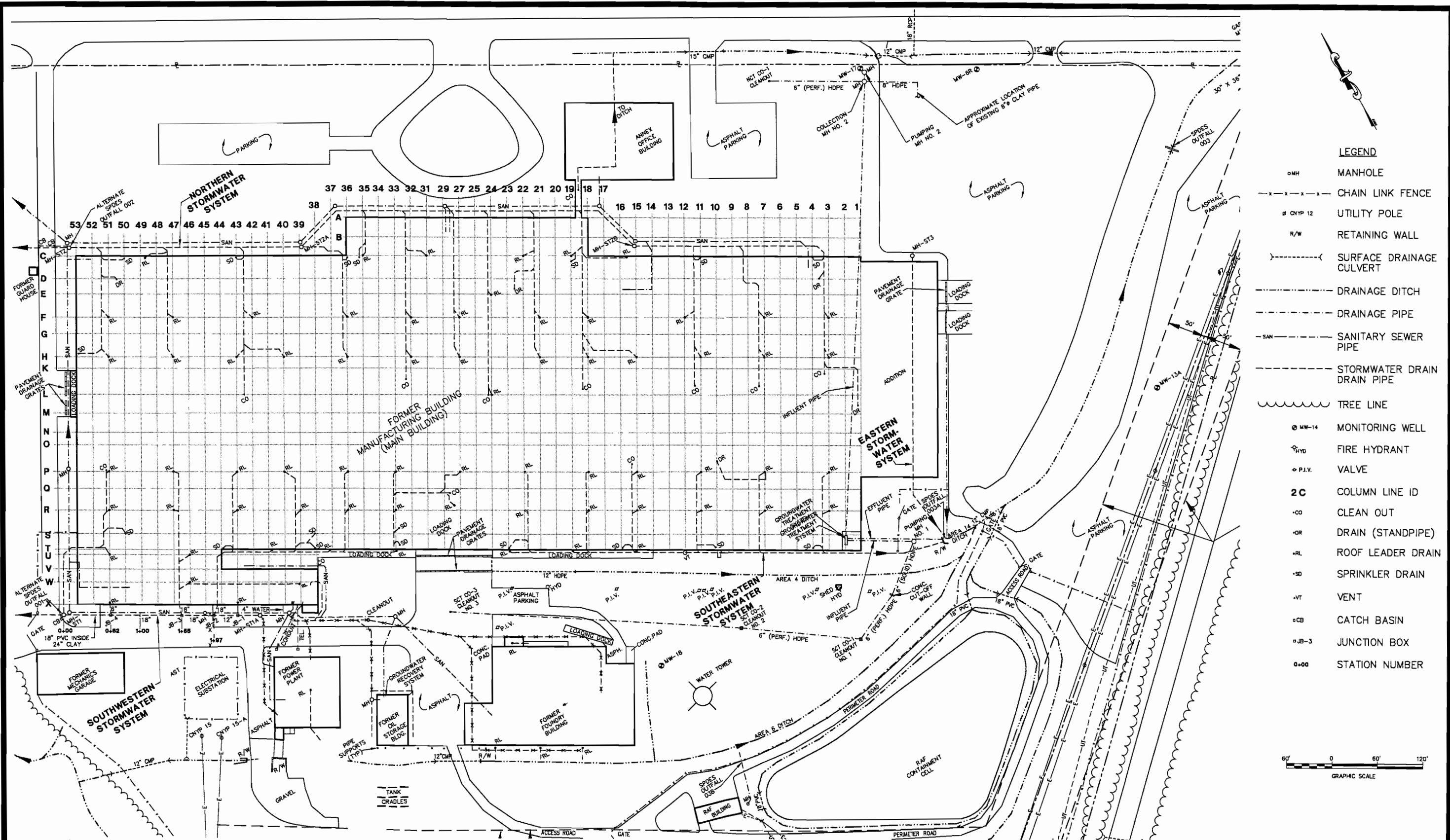
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028BW
2/6/08
SYNAPSE/WP/DANA 01-04/2006OP&M/DANAB30.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

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MAINTENANCE & MONITORING REPORT
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UTICA, NEW YORK

**SPDES OUTFALL 03B
PLAN**

PROJECT NO.:
DANA 01-10
DATE:
JULY 2010
FIGURE NO.:
5-4

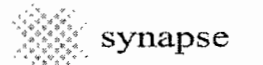


LEGEND

- MH MANHOLE
- - - - - CHAIN LINK FENCE
- CHYP 12 UTILITY POLE
- R/W RETAINING WALL
- - - - - SURFACE DRAINAGE CULVERT
- - - - - DRAINAGE DITCH
- - - - - DRAINAGE PIPE
- SAN - SANITARY SEWER PIPE
- - - - - STORMWATER DRAIN PIPE
- ~~~~~ TREE LINE
- MW-14 MONITORING WELL
- FHYD FIRE HYDRANT
- P.I.V. VALVE
- 2C COLUMN LINE ID
- CO CLEAN OUT
- OR DRAIN (STANDPIPE)
- RL ROOF LEADER DRAIN
- SD SPRINKLER DRAIN
- VT VENT
- CB CATCH BASIN
- JB-3 JUNCTION BOX
- +00 STATION NUMBER

60' 0 60' 120'
GRAPHIC SCALE

DIRECTORY: C:\WORK\BLOOR\CP\ENG-REP
 FILE NAME: CP-04 & CP-BASE
 DATE: 9/17/09
 X: CP-BASE
 D2B5W
 2/12/09
 SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB15.DWG

 SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT STORES 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT	STORMWATER SYSTEM PARTIAL PLAN	PROJECT NO.: DANA 01-10
	2200 BLEECKER STREET UTICA, NEW YORK		DATE: JULY 2010
	FIGURE NO.: 5-5		

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

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
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Monitoring Period Monitoring Date Sampler ID	ECL		September '02				October '02				November '02					December '02				January '03				February '03			
	Daily Max	Units	9/6/2002	9/11/2002	9/16/2002	9/23/2002	10/3/2002	10/10/2002	10/16/2002	10/25/2002	11/1/2002	11/6/2002	11/11/2002	11/22/2002	11/27/2002	12/5/2002	12/13/2003	12/20/2003	12/27/2003	12/30/2002	1/10/2003	1/17/2003	1/24/2003	1/29/2003	2/3/2003	2/10/2003	2/18/2003
			rsn	bhm	bhm	rtc	rsn	bhm	bhm	rsn	rtc	rsn	rtc/rsn	rsn	rsn	rtc	bhm	bhm	rtc	bhm	bhm	bhm	rsn	rsn/sjm	sjm	rtc/sjm	
SPDES Outfall 001																											
Flow Rate	Monitor	gpd	HTW	3505	15801	2314	7530	132	185634	<152	132	35901	HTW	HTW	12987	2314	30835	32981	21739	26116	HTW	152	No Flow	<152	6112	<152	<152
Temperature	90	°F		67	71		66		57			47		53		49	46					41	35		46		40
pH	6.0-9.0	SU		7.6	7.3		7.1		7.0			6.7		7.0		6.6	7.9					7.0	7.2		7.0		7.1
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		15			<4		<4		14	15					10	51		<4		5
	50 (wet)																										
cis-1,2-Dichloroethylene	10	ug/l		7.9	1		1		2.7			<1		3.6		<1	<1					1	<0.5		1		4
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1
Trichloroethylene	10	ug/l		1.1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		1
Chloroform	46	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1
Copper, Total	100	ug/l		73	34		55		50			20		25		11	24					22	<10		53		21
Oil & Grease	15	mg/l		<5			8.3					<5				<5						<5			<5		
Phenolics, Total	28	ug/l		<20			<20					<20				<20						<20			<20		
Antimony, Total	300	ug/l		<10												<10											
Chromium, Total	51	ug/l		22																							
Fluoride, Total	2500	ug/l		340																							
Lead, Total	13	ug/l		<10																							
Zinc, Total	210	ug/l		72																							
SPDES Outfall 002																											
Flow Rate	Monitor	gpd	43871	47168	50610	43871	47168	47168	528383	39476	27001	166744	34824	HTW	HTW	27001	88412	<10000	<10000	22,454	HTW	1582	No Flow	574	11643	HTW	10241
Temperature	90	°F		70	72		70		52			45	47			49	46					49	38		48		45
pH	6.0-9.0	SU		8.8	8.4		8.2		7.1			7.3	8.5			8.6	8.1					7.0	7.6		7.0		7.4
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		<4			<4	<4			<4	<4					<4	7		<4		<4
	50 (wet)																										
Oil & Grease	15	mg/l		<5			11					<5				<5						<5			<5		
Phenolics, Total	24	ug/l		<20			<20					<20				<20						<20			<20		
Fluoride, Total	1500	ug/l		1000																							
SPDES Outfall 003																											
Flow Rate	Monitor	gpd	6943	20829	83314	48600	36450	35345	198367	24300	18225	116640	36450	100000	48000	48600	42261	110000	29100	50000	53018	25357	7200 E	7200 E	14400 E	48600	2880 E
Temperature	90	°F		64.2	70.3		65.5		51.3			44	58			35	44					40	33		40		33
pH	8.0-9.0	SU		7.6	7.7		7.4		7.1			7.1	7.2			7.6	6.9					7.1	7.5		7.1		7.5
Solids, Total Suspended	10 (dry)	mg/l		6	<4		<4		<4			<4	<4			<4	<4					<4	5		<4		<4
	50 (wet)																										
Chlorine, Total Residual	100	ug/l		80	70		70		85			20	80			50	50					70	60		70		47
cis-1,2-Dichloroethylene	10	ug/l		<1	1.1		1.9		<1			4	<1			4.9	8.3					6	3		3		8
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1
Trichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					6	<0.5		<1		2
Vinyl Chloride	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1
Chloroform	48	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1
Oil & Grease	15	mg/l		<5			6.6					<5				<5						<5			<5		<1
Phenolics, Total	44	ug/l		<20			<20					<20				<20						<20			<20		
PCBs, Aroclors (Compliance)	300	ng/l							<50													<50			<50		
PCBs, Congeners (1668A Study)	NA	pg/l							7824													7641					
Lead, Total	10	ug/l		<10																							
Zinc, Total	120	ug/l		<10																							

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period			ECL		September '02				October '02				November '02				December '02				January '03				February '03				
Monitoring Date			Daily	Units	9/6/2002	9/11/2002	9/16/2002	9/23/2002	10/3/2002	10/10/2002	10/16/2002	10/25/2002	11/1/2002	11/6/2002	11/11/2002	11/22/2002	11/27/2002	12/5/2002	12/13/2003	12/20/2003	12/27/2003	12/30/2002	1/10/2003	1/17/2003	1/24/2003	1/29/2003	2/3/2003	2/10/2003	2/18/2003
Sampler ID			Max		ran	bhm	bhm	rtc	ran	bhm	bhm	ran	rtc	ran	rtc/ran	ran	ran	rtc	bhm	bhm	rtc	bhm	bhm	bhm	ran	ran/sjm	sjm	rtc/sjm	
SPDES Outfall 001																													
Flow Rate	Monitor	gpd	HTW	3505	15801	2314	7530	152	185634	<152	152	35901	HTW	HTW	13987	2314	30835	35901	21739	26116	HTW	152	No Flow	<152	6112	<152	<152		
Temperature	90	°F		67	71		66		57			47		53		49	46					41	35		46		40		
pH	6.0-9.0	SU		7.6	7.3		7.1		7.0			6.7		7.0		6.6	7.9					7.0	7.2		7.0		7.1		
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		15			<4		<4		14	15					10	51		<4		5		
	50 (wet)																												
cis-1,2-Dichloroethylene	10	ug/l		7.9	1		1		2.7			<1		3.6		<1	<1					1	<0.5		1		4		
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1		
Trichloroethylene	10	ug/l		1.1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		1		
Chloroform	46	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1		
Copper, Total	100	ug/l		73	34		55		50			20		25		11	24					22	<10		53		21		
Oil & Grease	15	mg/l		<5			8.3					<5				<5						<5			<5				
Phenolics, Total	28	ug/l		<20			<20					<20				<20						<20			<20				
Antimony, Total	300	ug/l		<10												<10													
Chromium, Total	51	ug/l		22																									
Fluoride, Total	2500	ug/l		340																									
Lead, Total	13	ug/l		<10																									
Zinc, Total	210	ug/l		72																									
SPDES Outfall 002																													
Flow Rate	Monitor	gpd	43871	47168	50610	43871	47168	47168	528383	29476	27001	168744	34824	HTW	HTW	27001	88412	133097	27001	22434	HTW	1582	No Flow	574	11643	HTW	10241		
Temperature	90	°F		70	72		70		52			45	47			49	46					49	38		48		45		
pH	6.0-9.0	SU		8.8	8.4		8.2		7.1			7.3	8.5			8.6	8.1					7.0	7.6		7.0		7.4		
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		<4			<4	<4			<4	<4					<4	7		<4		<4		
	50 (wet)																												
Oil & Grease	15	mg/l		<5			11					<5				<5						<5			<5				
Phenolics, Total	24	ug/l		<20			<20					<20				<20						<20			<20				
Fluoride, Total	1500	ug/l		1000																									
SPDES Outfall 003																													
Flow Rate	Monitor	gpd	6943	20829	83314	48600	36450	35345	198367	24300	18225	116640	36450	194400	48600	48600	42261	116640	29180	53018	53018	25357	7200 E	7200 E	14400 E	48600	2880 E		
Temperature	90	°F		64.2	70.3		65.5		51.3			44	58			35	44					40	33		40		33		
pH	6.0-9.0	SU		7.6	7.7		7.4		7.1			7.1	7.2			7.6	6.9					7.1	7.5		7.1		7.5		
Solids, Total Suspended	10 (dry)	mg/l		6	<4		<4		<4			<4	<4			<4	<4					<4	5		<4		<4		
	50 (wet)																												
Chlorine, Total Residual	100	ug/l		80	70		70		85			20	80			50	50					70	60		70		47		
cis-1,2-Dichloroethylene	10	ug/l		<1	1.1		1.9		<1			4	<1			4.9	8.3					6	3		3		8		
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1		
Trichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					6	<0.5		<1		2		
Vinyl Chloride	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1		
Chloroform	46	ug/l		<1	<1		<1		<1			<1	<1			<1	<1					<1	<0.5		<1		<1		
Oil & Grease	15	mg/l		<5			6.8					<5				<5						<5			<5				
Phenolics, Total	44	ug/l		<20			<20					<20				<20						<20			<20				
PCBs, Aroclors (Compliance)	300	ng/l							<50													<50							
PCBs, Congeners (1668A Study)	NA	pg/l							7824													2641							
Lead, Total	10	ug/l		<10																									
Zinc, Total	120	ug/l		<10																									

**TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087**

Monitoring Period Monitoring Date Sampler ID	ECL		March '03					April '03				May '03				June '03				July '03				August '03					
	Daily Max	Units	2/25/2003 sjm	3/7/2003 ran	3/12/2003 bhm	3/19/2003 rc/pmf	3/25/2003 rc/bhm	4/4/2003 rc	4/11/2003 pmf	4/16/2003 ran	4/25/2003 rc	5/2/2003 rc	5/9/2003 sjm	5/15/2003 bhm	5/23/2003 sjm	5/29/2003 bhm	6/4/2003 sjm	6/11/2003 sjm	6/18/2003 sjm	6/25/2003 pmf/bhm	7/2/2003 sjm	7/9/2003 pmf/bhm	7/17/2003 sjm	7/23/2003 ran	8/1/2003 sjm/bhm	8/6/2003 bhm	8/13/2003 rc	8/29/2003 sjm	
SPDES Outfall 001																													
Flow Rate	Monitor	gpd	HTW	HTW	2180	HTW	HTW	2880 E	HTW	<1440 E	<1440 E	41320	<1440 E	928	<1440 E	743	<1440 E	4770	<1440 E	<1440 E	<1440 E	11676	<1440 E	12253	64800	4713	<1440 E	<1440 E	
Temperature	90	°F			43		54			56	52				58	60	60		61			66		69	66		88	74	
pH	8.0-9.0	SU			7.1		7.2			7.0	7.2				7.0	6.9	7.0		7.4			7.3		7.2	6.6		8.8	7.2	
Solids, Total Suspended	10 (dry) 50 (wet)	mg/l			17		7			45	5				31	10	39		30			46		<4	<4		<4	30	
cis-1,2-Dichloroethylene	10	ug/l			4		6			<1	<1				<1	<1	<1		1			1		<1	<1		4	<1	
trans-1,2-Dichloroethylene	10	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1	
Trichloroethylene	10	ug/l			<1		2			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1	
Chloroform	46	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1	
Copper, Total	100	ug/l			16		<10			17	16				22	19	<10		13			27		62	41		29	26	
Oil & Grease	15	mg/l			<5					13					<5				22			<5			<5				
Phenolics, Total	28	ug/l			<20					<20					<2				<20			<20			<20				
Antimony, Total	300	ug/l								<10									<10									<10	
Chromium, Total	51	ug/l								<10									<10										
Fluoride, Total	2500	ug/l								540																			
Lead, Total	13	ug/l								<10																			
Zinc, Total	210	ug/l								99									44										
SPDES Outfall 002																													
Flow Rate	Monitor	gpd	HTW	208	3966	HTW	HTW	2880 E	HTW	844	37	47168	101	394	1582	<250 E	101	3247	1582	208	101	56	<1440 E	18366	126908	HTW	101	101	
Temperature	90	°F			48		53			54	51				58	60	61		66			68		70	66		68	74	
pH	6.0-9.0	SU			6.7		7.3			7.3	7.2				7.7	7.1	7.3		7.2			6.5		7.0	6.6		6.8	7.8	
Solids, Total Suspended	10 (dry) 50 (wet)	mg/l			<4		11			7	11				5	10	<4		<4			<4		<4	<4		9	15	
Oil & Grease	15	mg/l			8					12						<5			<5			<5			<5				
Phenolics, Total	24	ug/l			<20					<20					<2				<20			<20			<20				
Fluoride, Total	1500	ug/l								460									150										
SPDES Outfall 003																													
Flow Rate	Monitor	gpd	13886	23328	18225	83314	97200	7200 E	144000 E	24300 E	291600 E	172800 E	20700 E	64100	15247	28800	21600	18574	17280	15541	6480	18783	11782	74057	94255	47127	14811	28800	
Temperature	90	°F			38		58			59	51				61	66	64		64			67		70	65		72	73	
pH	6.0-9.0	SU			7.4		7.2			7.3	7.4				7.5	7.4	7.5		7.6			7.2		7.1	7.3		7.4	7.7	
Solids, Total Suspended	10 (dry) 50 (wet)	mg/l			<4		<4			4	NA				<4	9	<4		<4			<4		<4	<4		<4	<4	
Chlorine, Total Residual	100	ug/l			50		60			10	60				30	40	50		50			50		60	70		50	50	
cis-1,2-Dichloroethylene	10	ug/l			8		5			<1	2				<1	<1	<1		<1			<1		2	<1		<1	<1	
trans-1,2-Dichloroethylene	10	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1	
Trichloroethylene	10	ug/l			9		3			<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	
Chloroform	46	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1	
Oil & Grease	15	mg/l			<5					<5					<5				6			<5			<5				
Phenolics, Total	44	ug/l			<2					<20					<2				<20			<20			<20				
PCBs, Aroclors (Compliance)	300	ng/l								<50									<50										
PCBs, Congeners (1668A Study)	NA	pg/l								4268									6283										
Lead, Total	10	ug/l								<10									<10										
Zinc, Total	120	ug/l								<10									<10										

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period Monitoring Date Sampler ID	ECL		September '03		October '03		November '03		December '03		January '04			February '04		March '04		April '04		May '04		June '04		
	Daily Max	Units	9/8/2003 bhm	9/23/2003 bhm	10/8/2003 bhm	10/23/2003 sjm	11/5/2003 sjm	11/21/2003 bhm	12/5/2003 rsn	12/17/2003 rsn	12/31/2003 sjm	1/13/2004 sjm	1/30/2004 rsn	2/12/2004 sjm	2/27/2004 bhm	3/10/2004 rsn	3/24/2004 sjm	4/7/2004 rsn	4/22/2004 rsn	5/6/2004 rsn	5/18/2004 rsn	6/1/2004 rsn	6/18/2004 rsn	
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	<1440 E	32112	628	<4114E	<4114 E	HTW	<4140 E	<20736 E	3600 E	5760	4114	770 E	626	1775 E	2880E	2880E	5722E	3497E	1377E	3292E	4770E	
Temperature	90	°F	69	65	68	51	55	54	44	43	46	46	42	44	40	44	46	44	58	53	66	64	66	
pH	8.0-9.0	SU	7.4	7.0	8.8	6.8	7.4	6.5	6.8	6.8	8.3	6.8	6.6	7.4	6.6	6.8	6.6	6.8	6.3	6.4	6.8	6.8	6.6	
Solids, Total Suspended	10 (dry)	mg/l	15	<4	<4	8	6	7	21	<4	5	5	<4	<4	9	7	6	9	<4	<4	7	<4	<4	
	50 (wet)																							
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	2	<1	<1	1	<1	<1	<1	2	2	4	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	
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	
Chloroform	48	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper, Total	100	ug/l	14	15	26	17	14	<10	12	14	18	33	20	25	17	25	32	28	36	32	25	29	30	
Oil & Grease	15	mg/l	<5		<5			<5		24	<5				<5	<5		<5			<5		<5	
Phenolics, Total	28	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20	
Antimony, Total	300	ug/l								<10						<10					<20			
Chromium, Total	51	ug/l								<10														
Fluoride, Total	2500	ug/l								240														
Lead, Total	13	ug/l								<10														
Zinc, Total	210	ug/l								38														
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	37	34824	208	208	11643	HTW	HTW	HTW	28800 E	43871	32084	5672	1178	3247	8947	8947	3966	2058	208	2058	3966E	
Temperature	90	°F	69	66	68	53	56	60	48	47	49	41	36	46	43	50	49	51	57	54	68	66	69	
pH	6.0-9.0	SU	7.2	6.9	7.0	7.2	7.4	6.6	6.9	6.7	6.3	7.5	7.6	8.9	7.3	6.9	6.8	7.4	6.5	6.5	7.2	6.9	6.2	
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	7	<4	4	<4	<4	<4	<4	<4	<4	<4	6	<4	8	<4	<4	<4	<4	<4	
	50 (wet)																							
Oil & Grease	15	mg/l	<5		<5			9		16	<5				<5	<5		<5			<5		6	
Phenolics, Total	24	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20	
Fluoride, Total	1500	ug/l								200														
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	9969	103680	13642	15247	25920	43200	25920	37029	32400	47127	21600	8361	5400	51840	32400	25920	51840	39273	10327	33188	33010E	
Temperature	90	°F	71	64	63	45	52	48	35	42	43	34	33	37	36	48	51	45	60	56	75	71	73	
pH	6.0-9.0	SU	7.8	7.2	7.6	7.6	7.1	7.1	7.3	6.8	6.1	6.9	7.1	7.1	7.0	6.8	7.4	7.1	7.0	6.9	7.0	7.3	7.1	
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	4	4	<4	<4	<4	<4	4	17	5	<4	<4	<4	<4	<4	<4	<4	
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	50	80	50	30	50	90	30	50	50	30	20	30	40	50	50	30	60	30	10	30	20	
cis-1,2-Dichloroethylene	10	ug/l	<1	1	<1	<1	2	3	10	6	4	11	2	5	2	3	3	2	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		
Trichloroethylene	10	ug/l	<1	<1	<1	<1	1	2	8	1	3	3	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		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Oil & Grease	15	mg/l	<5		<5			8		<5	<5				<5	<5		<5		<5		<5		
Phenolics, Total	44	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20	
PCBs, Aroclors (Compliance)	300	ng/l								<50						<50								
PCBs, Congeners (1668A Study)	NA	pg/l								3449														
Lead, Total	10	ug/l								<10														
Zinc, Total	120	ug/l								11														

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period Monitoring Date Sampler ID	ECL		July '04			August '04		September '04			October '04		November '04		December '04		January '05			February '05		March '05		
	Daily Max	Units	6/30/2004	7/15/2004	7/29/2004	8/13/2004	8/26/2004	9/10/2004	9/22/2004	9/23/2004	10/6/2004	10/20/2004	11/3/2004	11/15/2004	11/30/2004	12/17/2004	12/28/2004	1/12-13/05	1/26 - 27/2005	2/9/2005	2/22/2005	3/7/2005	3/22/2005	
			rtc	rtc	rtc	sjm	rtc	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	4770E	2314E	1196E	26111	3505	2314	1196		0	1196	5200	1140	HTW	2880	626E	9026	4770	152	21739	19677	HTW	
Temperature	90	°F	19	67	71	70	64	68	68		62	56	55	49	51	48	41	41	43	45	47	49	42	
pH	6.0-9.0	SU	6.8	6.8	6.8	6.6	6.9	6.5	6.3		6.2	7.4	6.5	7.0	7.2	7.1	7.4	6.96	7.1	7.7	7.0	8.0	6.6	
Solids, Total Suspended	10 (dry)	mg/l	10	<4	6	<4	5	<4	<4		<4	<4	6	<4	<4	14	4	<4	<4	<4	5	5	5.5	
	50 (wet)																							
cis-1,2-Dichloroethylene	10	ug/l	<1	1	4	<1	<1	2	<1		<1	<1	<1	1	2.2	1.4	<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	
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper, Total	100	ug/l	50	34	43	29	17	41	38		<10	20	62	420	<10	<10	10	<10	20	29	78	31	<10	
Oil & Grease	15	mg/l	<5			<5	9	<5			<5	26	<5	<5		<5		<5		23		<5		
Phenolics, Total	28	ug/l	<20			<20	<20	<20			<20	<20	<20	<20		<20		<20		21		<20		
Antimony, Total	300	ug/l		<10			<10	13				<10								<10				
Chromium, Total	51	ug/l					42																	
Fluoride, Total	2500	ug/l					410							930										
Lead, Total	13	ug/l					<10							<10										
Zinc, Total	210	ug/l					58							<10										
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	1178E	3247E	3966E	50610	1178	3247	37		208	2612	2058	208	HTW	2058	364	24654	6665	13153	24654	120894	HTW	
Temperature	90	°F	19	68	69	72	64	67	71		66	57	57	55	54	49	46	47	45	45	48	49	41	
pH	6.0-9.0	SU	7.2	7.1	6.8	6.6	7.3	6.9	6.9		6.9	7.9	5.8	7.3	7.8	7.0	6.5	7.2	7.1	7.1	7.5	7.1	6.9	
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	9.0		4.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	5	
	50 (wet)																							
Oil & Grease	15	mg/l	<5			<5	10	<5			<5	45	6	<5		<5		<5		<5		6.8		
Phenolics, Total	24	ug/l	<20			<20	<20	<20			<20	<20	<20	<20		<20		<20		<20		<20		
Fluoride, Total	1500	ug/l					380							490										
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	20000E	21000	33200E	75000	25000	15549		10540	8934	8640	23542	10800	37008	21600	15247	32400	28800	32400	43200	28880	172800	
Temperature	90	°F	25	75	71	70	70	66		69	61	50	51	42	48	37	35	37	36	38	35	45	44	
pH	6.0-9.0	SU	7.6	7.5	7.8	7.1	7.7	6.6		6.4	6.7	7.5	6.4	7.6	7.7	7.1	6.5	7.6	6.8	7.3	7.4	7.6	7.3	
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4		<4	<4	<4	12	8	<4	<4	<4	<4 (sampled 1/27)	<4	4.5	<4	<4	<4	
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	30	40	30	60	65	30		40	60	50	20	70	50	40	20	30	20	40	40	90	80	
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	1	<1	<1		<1	<1	<1	<1	<1	2.1	3.8	<1	1.2	<1	2.2	7.5	5.2	6.4	
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	
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	
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	
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Oil & Grease	15	mg/l	<5			<5	<5	<5			<5	<5	5	<5		<5		<5		9		<5		
Phenolics, Total	44	ug/l	<20			<20	79	<20			<20	<20	<20	<20		<20		<20		<20		<20		
PCBs, Aroclors (Compliance)	300	ng/l		<50			<50					<50		<50		<50					<50			
PCBs, Congeners (1668A Study)	NA	pg/l		4134								2137				2761					3765			
Lead, Total	10	ug/l					<10							<10										
Zinc, Total	120	ug/l					<10							<10										

**TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087**

Monitoring Period			ECL		April '05		May '05		June '05		July '05			August '05		September '05		October '05		November '05		December '05		
Monitoring Date	Daily Max	Units	4/6/2005	4/20/2005	5/4/2005	5/20/2005	6/2/2005	6/14/2005	6/30/2005	7/13/2005	7/27/2005	8/10/2005	8/23/05	9/6/2005	9/22/2005	10/6/2005	10/21/2005	10/31/2005	11/15/2005	11/29/2005	12/12/2005	12/28/2005		
Sampler ID			sjm	sjm	rtc	rtc	rtc	rtc	rtc	sm	bhm	sjm	sjm	sjm	rtc	sjm	sjm	sjm	sjm	sjm	sjm	rtc		
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	HTW	152	1196	152	152	38566	3505	4770	40	80	80	152	152	HTW	HTW	50	28432	3505	HTW	125		
Temperature	90	°F	47	55	55	56	60	70	67	72	72	73	69	67	70	65	60	53	49	53	43	44		
pH	6.0-9.0	SU	6.6	7.8	7.7	7.7	6.8	6.8	7.5	6.7	6.5	6.7	6.3	7.0	6.9	6.5	7.4	8.8	8.2	7.8	7.2	7.0		
Solids, Total Suspended	10 (dry)	mg/l	10	<4	10	27	42	<4	27	<4	9	5	4	31	6.5	29	11	27	<4	6.5	<4	<4		
	50 (wet)																							
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	2		
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		
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper, Total	100	ug/l	<10	83	25	<10	<10	69	<10	50	14	18	33	<10	35	<10	<10	<10	31	22	13	20		
Oil & Grease	15	mg/l	<5		<5		6.4		<5			<5		<5		<5		<5		5.8				
Phenolics, Total	28	ug/l	<20		36		100		<20			<20		<20		<20		<2		4				
Antimony, Total	300	ug/l			<10							<10						<10						
Chromium, Total	51	ug/l			<10													<10						
Fluoride, Total	2500	ug/l			310													580						
Lead, Total	13	ug/l			<10													<10						
Zinc, Total	210	ug/l			76													29						
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	HTW	364	1582	364	7	57935	37	2612	5672	37	37	574	HTW	HTW	HTW	364	13153	364	HTW	844		
Temperature	90	°F	48	53	55	56	65	71	65	71	69	73	68	67	68	65	61	60	49	55	43	48		
pH	6.0-9.0	SU	6.9	7.9	7.8	7.9	6.7	6.7	7.3	6.7	7.1	6.7	6.9	6.9	6.7	6.7	7.5	7.7	7.3	7.2	6.9	7.2		
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	4.5	<4	8.5	<4	5	<4	4	<4	<4	<4	<4	13	<4	8	<4	<4	<4	<4		
	50 (wet)																							
Oil & Grease	15	mg/l	<5		<5		5		<5			<5		<5		<5		<5		6.5				
Phenolics, Total	24	ug/l	<20		29		76		<20			<20		<20		<20		<2		2.6				
Fluoride, Total	1500	ug/l			230													380						
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	24300	6480	7783	3020	3744	64800	17280	2880	1100	2880	2520	6171	1726	9600	12342	17280	29950	21600	34560	21600		
Temperature	90	°F	52	60	61	64	80	71	76	77	73	80	68	65	72	64	54	55	46	53	42	47		
pH	6.0-9.0	SU	7.6	8.3	7.9	8.1	7.2	6.9	7.8	7.2	7.1	7.2	7.1	6.7	6.9	7.1	7.8	8.4	6.8	7.3	7.2	7.4		
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	4.5	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4		
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	40	50	50	60	30	80	40	50	30	40	40	80	30	20	30	40	10	30	40	40		
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	1.4	2.5		
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		
Trichloroethylene	10	ug/l	<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		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Oil & Grease	15	mg/l	<5		<5		5		<5			<5		<5		5.5		<5		<5				
Phenolics, Total	44	ug/l	<20		27		40		<20			<20		<20		<20		<2		2.6				
PCBs, Aroclors (Compliance)	300	ng/l										<0.1						<100						
PCBs, Congeners (1668A Study)	NA	pg/l																na						
Lead, Total	10	ug/l			<10													<10						
Zinc, Total	120	ug/l			14													<10						

**TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087**

Monitoring Period			ECL		January '06		February '06		March '06		April '06		May '06		June '06			July '06		August '06		September '06		October '06	
Monitoring Date			1/13/2006	1/25/2006	2/9/2006	2/20/2006	3/3/2006	3/24/2006	4/7/2006	4/20/2006	5/3/2006	5/17/2006	6/2/2006	6/16/2006	6/30/2006	7/11/2006	7/26/2006	8/10/2006	8/22/2006	9/7/2006	9/20/2006	10/5/2006	10/17/2006		
Sampler ID	Daily Max	Units	rtc	rtc	rtc	rtc	rtc	bhm	rtc	rtc	BHM	RRC	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc		
SPDES Outfall 001																									
Flow Rate	Monitor	gpd	HTW	HTW	HTW	152	152	4770	47076	152	152	152	152	3505	10600	152	152	152	152	152	3505	152	19877		
Temperature	90	°F	44	44	44	40	41	50	46	51	57	55	58	60	66	65	68	68	69	65	64	62	55		
pH	6.0-9.0	SU	7.3	7.2	7.2	7.4	7.9	7.3	7.0	7.5	7.3	7.1	6.9	6.9	6.9	6.94	7.2	7.14	6.64	6.6	7.35	7.8	8.3		
Solids, Total Suspended	10 (dry)	mg/l	12	5	24	26	48	6.5	21	33	25	7.4	45	40	<4	<4	31	38	4	21	<4	7	<4		
	50 (wet)																								
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	<2	<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	<2	<1			
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1			
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<2	<1			
Copper, Total	100	ug/l	15	28	10	11	11	18	18	<10	<10	45	<10	<10	23	59	<10	<10	<10	<10	<10	25	37		
Oil & Grease	15	mg/l		<5	<5		<5		5.1		<5		<5			<5		<5		<5		<5			
Phenolics, Total	28	ug/l		4.3	6.7		3.4		2.2		5.5		2.1			2.1		<2		<2		2			
Antimony, Total	300	ug/l							<10				<10			<10									
Chromium, Total	51	ug/l											<10												
Fluoride, Total	2500	ug/l											410												
Lead, Total	13	ug/l											12												
Zinc, Total	210	ug/l											25												
SPDES Outfall 002																									
Flow Rate	Monitor	gpd	HTW	HTW	HTW	574	364	HTW	10221	364	37	364	101	364	HTW	101	101	844	208	7	3966	101	16512		
Temperature	90	°F	43	42	44	44	45	49	50	52	57	54	58	60	66	65	67	68	69	67	64	65	52		
pH	6.0-9.0	SU	7.5	7.6	6.8	7.2	7.2	7.7	7.9	7.6	7.7	7.1	6.8	6.9	7.3	7.07	6.98	6.97	7.24	6.98	7.93	7.3	8.2		
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	4	5.5	<4	<4	13	<4	<4	<4	<4	<4	11	<4	<4	<4		
	50 (wet)																								
Oil & Grease	15	mg/l		<5	<5		<5		<5		<5		<5			<5		<5		<5		<5			
Phenolics, Total	24	ug/l		5.8	5.7		3.2		3.3		6.1		2.9			2.9		<2		<2		2			
Fluoride, Total	1500	ug/l											160												
SPDES Outfall 003																									
Flow Rate	Monitor	gpd	28800	43200	29394	24300	29494	41760	100800	25200	16070	5760	36400	25200	92100	43200	32400	33600	100800	25200	75600	35576	302400		
Temperature	90	°F	47	42	43	34	34	48	44	48	51	43	58	70	87	71	68	69	69	69	65	61	51		
pH	6.0-9.0	SU	7	7.1	7.2	7.3	6.4	8.1	7.3	7.6	7.8	6.9	7.2	7.1	7.1	6.8	7.16	7.24	7.15	7.03	7.47	7.3	7.7		
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4		
	50 (wet)																								
Chlorine, Total Residual	100	ug/l	55	40	50	40	40	80	40	35	40	35	40	35	40	40	45	30	40	35	45	40	45		
cis-1,2-Dichloroethylene	10	ug/l	3.4	2.9	2.2	1.9	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2		
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		
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		
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		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Oil & Grease	15	mg/l		<5	<5		<5		<5		<5		<5			<5		<5		<5		<5			
Phenolics, Total	44	ug/l		3.9	4.4		2.2		2.7		4.4		3.9			3		<2		<2		<2			
PCBs, Aroclors (Compliance)	300	ng/l							<50				<100			<100									
PCBs, Congeners (1668A Study)	NA	pg/l											na			na									
Lead, Total	10	ug/l											10												
Zinc, Total	120	ug/l											<10												

**TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087**

Monitoring Period Monitoring Date Sampler ID	ECL		November '06			December '06		January '07		February '07		March '07		April '07		May '07			June '07		July '07		August '07	
	Daily	Units	11/3/2006	11/16/2006	11/30/2006	12/14/2006	12/29/2006	1/10/2007	1/26/2007	2/9/2007	2/21/07	3/9/2007	3/23/2007	4/3/2007	4/18/2007	5/1/2007	5/15/2007	5/31/2007	6/12/2007	6/28/2007	7/12/2007	7/26/2007	8/10/2007	8/23/2007
	Max		rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	15801	HTW	152	152	HTW	HTW	70199	3505	21739	HTW	HTW	HTW	HTW	152	152	152	HTW	HTW	HTW	HTW	19677	152
Temperature	90	°F	54	54	50	49	45	46	41	41	43	38	40	45	44	50	53	57	60	64	66	66	69	69
pH	6.0-9.0	SU	7.4	7.3	7.4	7.4	7.3	7.7	7.8	7.9	7.9	7.5	7.7	7.7	7.6	7.6	7.6	7.6	7.9	7.8	7.3	7.0	6.7	7.7
Solids, Total Suspended	10 (dry)	mg/l	27	<4	30	6.5	18	7	27	28	<4	29	6	27	14	31	25	34	39	31	<4	31	<4	11
	50 (wet)																							
cis-1,2-Dichloroethylene	10	ug/l	<1	2.1	<1	<1	1	<1	<1	<1	<1	<1	2	<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
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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	27	15	<10	25	15	<10	14	<10	29	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10	59	38
Oil & Grease	15	mg/l	<5	<5		<5		<5		6		6		6		<5			<5		17		6	
Phenolics, Total	28	ug/l	<2	<2		<2		<2		2.6		<50		<20		<3			<3		<3		<2	
Antimony, Total	300	ug/l	11											<10					14		<10			
Chromium, Total	51	ug/l	12																11					
Fluoride, Total	2500	ug/l	480																365					
Lead, Total	13	ug/l	22																13					
Zinc, Total	210	ug/l	35																31					
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	4773	HTW	208	208	HTW	HTW	13153	16512	13153	HTW	HTW	HTW	HTW	208	37	208	208	HTW	574	3966	844	208
Temperature	90	°F	60		58	55	53	52	42	46	48	38	47	49	48	51	53	56	59	65	76	73	70	69
pH	6.0-9.0	SU	7.6	7.6	7.6	7.8	7.9	7.4	7.4	7.8	7.9	8.7	7.7	7.5	7.6	7.9	8.0	7.7	7.4	7.6	7.7	7.0	7.2	7.2
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	6	14	7	<4	26	<4	<4
	50 (wet)																							
Oil & Grease	15	mg/l	<5	<5		<5		<5		6		11		7.1		<6			<5		5		<5	
Phenolics, Total	24	ug/l	<2	<2		<2		<2		4		<50		<20		<3			<3		<3		<2	
Fluoride, Total	1500	ug/l	260																					
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	60480	35576	50400	37800	58154	37800	47999	60480	33600	43199	151200	151200	151200	75600	4319	4319	86399	25620	30240	30240	100800	20160
Temperature	90	°F	47	55	55	47	42	39	34	35	35	35	41	53	46	56	69	70	74	71	76	73	68	69
pH	6.0-9.0	SU	7.7	7.7	7.7	7.6	8	7.4	8.4	8	8.1	8.1	8	8	8	8	8.3	7.9	8	6	7.9	7.4	7.3	7.2
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	17	27	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	35	45	40	40	45	40	50	45	40	40	45	40	45	50	40	45	40	40	40	40	50	55
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	2	<1	<1	1.8	4.2	<1	1.6	<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
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
Vinyl Chloride	10	ug/l	<1	<1	<1	<2	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l	<5	5.9		<5		<5		<6		<5		7.4		<5			<5		<5		5.4	
Phenolics, Total	44	ug/l	<2	<2		3		<2		<2		<50		<20		<3			<3		<3		<2	
PCBs, Aroclors (Compliance)	300	ng/l	<50											<35						<100				
PCBs, Congeners (1668A Study)	NA	pg/l																						
Lead, Total	10	ug/l	17																13					
Zinc, Total	120	ug/l	14																13					

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period Monitoring Date Sampler ID	ECL		September '07		October '07		November '07			December '07		January '08		February '08		March '08		April '08			May '08		June '08	
	Daily	Units	9/6/2007	9/21/2007	10/5/2007	10/19/2007	11/2/2007	11/16/2007	11/30/2007	12/14/2007	12/28/2007	1/11/2008	1/25/2008	2/8/2008	2/21/2008	3/4/2008	3/17/2008	4/3/2008	4/18/2008	4/29/2008	5/13/2008	5/29/2008	6/11/2008	6/24/2008
	Max		rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	sm	rtc	sm - qtrly	rtc - monthly	slj - biweekly	rtc	rtc
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	HTW	152	152	3505	152	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	12253	2314	152	152	152	12253
Temperature	90	°F	69	70	67	64	58	53	63	48	45	46	43	43	42	45	42	47	49	53	53	55	64	62
pH	6.0-9.0	SU	7.3	7.2	7.3	7.3	7.4	7.4	7.3	7.4	7.9	7.3	7.8	7.6	7.6	6.6	7.2	7.2	7.3	7.2	7.7	7.7	6.8	7.1
Solids, Total Suspended	10 (dry)	mg/l	5	<4	<4	20	15	<4	<4	<4	<4	<4	14	<4	10	14	4	<4	18	10	17	<4	<4	48
	50 (wet)																							
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	1.7	<1	5.2	<1	<1	<1	<1	<1	1	<1	2.4	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	1.8	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	<10	54	18	<10	42	22	12	32	37	<10	<10	<10		29	<10	48	14	12	68	34	51	<10
Oil & Grease	15	mg/l		<5	5.2		<5	<5			<5	<5		<5		<5		<5		<5		<5		
Phenolics, Total	28	ug/l		<3	4.1		<3	<3			<3	<3		<3		<3		<3		<3		<3		
Antimony, Total	300	ug/l			<10			<10						<10						<10			<10	
Chromium, Total	51	ug/l						<10															11	
Fluoride, Total	2500	ug/l						220															190	
Lead, Total	13	ug/l						<10															<10	
Zinc, Total	210	ug/l					29																49	
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	101	101	208	364	7	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	7	HTW	37	37	HTW	7755
Temperature	90	°F	67	67	66	66	61	55	43	50	45	44	50	48	44	42	47	46	50	55	53	55	66	62
pH	6.0-9.0	SU	7.4	7.3	7.5	7.5	7.7	7.6	7.7	7.6	7.6	8.2	7.6	7.5	7.9	6.1	7.4	7.9	7.6	7.4	7.5	6.7	7.2	7.6
Solids, Total Suspended	10 (dry)	mg/l	4	5	6.5	5	6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	6.5	<4	<4	7
	50 (wet)																							
Oil & Grease	15	mg/l		<5	<5		<5	<5		5	<5			<5		<5		<5		<5		<5		
Phenolics, Total	24	ug/l		<3	<3		<3	<3		<3		<3		<3		<3		<3		<3		<3		
Fluoride, Total	1500	ug/l						<100															140	
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	5760	75600	33600	23261	37800	151200	60480	75600	302400	46523	13745	100800	46533	75600	37800	100800	50400	16800	8640	10427	10080	50400
Temperature	90	°F	67	69	65	62	53	47	43	42	43	38	35	39	35	38	45	43	63	55	66	69	73	75
pH	6.0-9.0	SU	7.7	7.2	7.6	7.6	7.7	7.7	7.8	7.9	7.6	7.6	7.2	7.8	8	7.1	7.8	7.4	7.7	7.8	7	7	7.2	7.8
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	50	45	40	45	40	40	45	40	45	40	40	40	45	40	80	60	55	90	80	96	330	95
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	1.2	2.4	2.5	1.1	<1	3.8	1.1	1.7	<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
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	4.2	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l		<5	<5		<5	<5		<5		7.2		<5		<5		<5		<5		<5		
Phenolics, Total	44	ug/l		<3	<3		<3	<3		<3		<3		<3		<3		<3		<3		<3		
PCBs, Aroclors (Compliance)	300	ng/l						<100												<100				<50
PCBs, Congeners (1668A Study)	NA	pg/l																						
Lead, Total	10	ug/l						<10															<10	
Zinc, Total	120	ug/l						<10															<10	

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period Monitoring Date Sampler ID			ECL		July '08		August '08		September '08		October '08			November '08		December '08		January '09		February '09		March '09		April '09	
			Daily Max	Units	7/10/2008 ntc	7/23/2008 ntc	8/6/2008 ntc	8/19/2008 ntc	9/5/2008 ntc	9/16/2008 ntc	10/1/2008 ntc	10/15/2008 ntc	10/29/2008 ntc	11/14/2008 ntc	11/25/2008 ntc	12/9/2008 ntc	12/24/2008 ntc	1/9/2009 ntc	1/23/2009 ntc	2/5/2009 ntc	2/20/2009 ntc	3/6/2009 ntc	3/17/2009 ntc	4/3/2009 ntc	4/17/2009 ntc
SPDES Outfall 001																									
Flow Rate	Monitor	gpd	152	4770	2314	70199	1196	3505	152	1196	HTW	HTW	HTW	HTW	HTW	0	0	0	0	0	0	0	0	0	0
Temperature	90	°F	65	71	68	69	68	69	66	62	50	49	53	46	43	44	41	41	44	43	45	52	51		
pH	6.0-9.0	SU	7.4	7.6	7.2	7.0	6.7	6.9	7.0	7.1	7.9	7.5	8.2	7.2	7.3	7.9	7.7	7.7	7.9	7.5	6.9	7.6	7.5		
Solids, Total Suspended	10 (dry)	mg/l	31	<4	6	<4	53	31	<4	9.5	<4	9	<4	10	<4	<4	20	15	11	20	4	14	38		
	50 (wet)																								
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	1.4	<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		
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		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper, Total	100	ug/l	<10	36	<10	30	<10	51	34	43	26	43	14	11	<10	<10	<10	<10	22	14	41	29	11		
Oil & Grease	15	mg/l	<5		<5		<5		<5		26	<5	<5	6.6		<5		11		<5	12				
Phenolics, Total	28	ug/l	<3		<3		4.3		<3			<3		<3		<3		<3		<3	<3	<3			
Antimony, Total	300	ug/l			<10						<10										<10	<10			
Chromium, Total	51	ug/l			11																				
Fluoride, Total	2500	ug/l			190																				
Lead, Total	13	ug/l			<10																				
Zinc, Total	210	ug/l			49																				
SPDES Outfall 002																									
Flow Rate	Monitor	gpd	101	3966	3966	50610	574	1178	364	208	HTW	HTW	HTW	HTW	HTW	0	0	0	0	0	0	0	0	0	0
Temperature	90	°F	64	71	67	69	67	88	66	64	46	48	55	43	53	44	42	46	45	44	48	52	51		
pH	6.0-9.0	SU	7.4	7.5	7.4	7.5	7.3	7.2	7.3	7.3	7.6	7.7	8.3	7.7	7.9	8.6	7.9	7.6	7.9	8.2	6.9	7.3	7.3		
Solids, Total Suspended	10 (dry)	mg/l	6.5	<4	4.5	<4	<4	4.5	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	17	
	50 (wet)																								
Oil & Grease	15	mg/l	<5		<5		<5		<5			<5		<5		<5		15			11	<5			
Phenolics, Total	24	ug/l	<3		<3		5.6		<3			<3		<3		<3		<3		<3	<3	<3			
Fluoride, Total	1500	ug/l			140																				
SPDES Outfall 003																									
Flow Rate	Monitor	gpd	15915	100800	7033	20160	43200	30240	100800	75600	20160	75600	43200	201600	151200	75600	60480	60480	75600	75600	43200	43200	30240		
Temperature	90	°F	75	71	73	69	73	66	65	58	62	41	47	34	35	35	35	36	36	35	36	43	61		
pH	6.0-9.0	SU	7.9	7.4	7.2	7.2	7.8	7.2	7.7	7.6	7.6	8.1	7.9	7.9	6.9	6.7	7.7	7.5	7.2	7.9	6.8	7.1	7.5		
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	83	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	4	<4	<4		
	50 (wet)																								
Chlorine, Total Residual	100	ug/l	80	60	50	55	80	55	55	40	45	45	40	45	45	40	45	50	40	45	50	45	40		
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	1.2	<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		
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		
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		
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Oil & Grease	15	mg/l	<5		<5		<5		<5			<5		<5		<5		11		<5	16				
Phenolics, Total	44	ug/l	<3		<3		<3		<3			<3		<3		<3		<3		<3	<3	<3			
PCBs, Aroclors (Compliance)	300	ng/l							<100			<50									<100	<100			
PCBs, Congeners (1668A Study)	NA	pg/l																							
Lead, Total	10	ug/l										<10													
Zinc, Total	120	ug/l										<10													

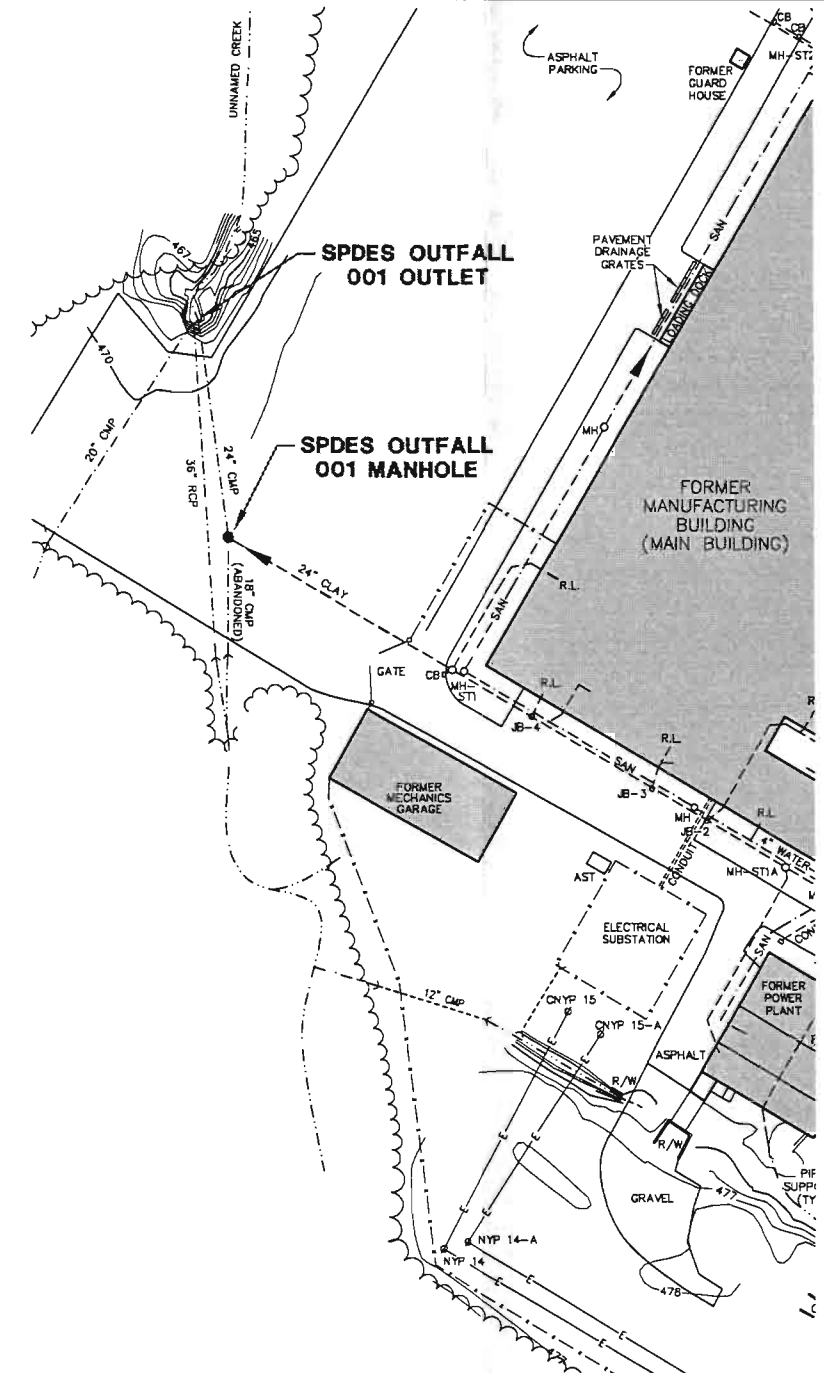
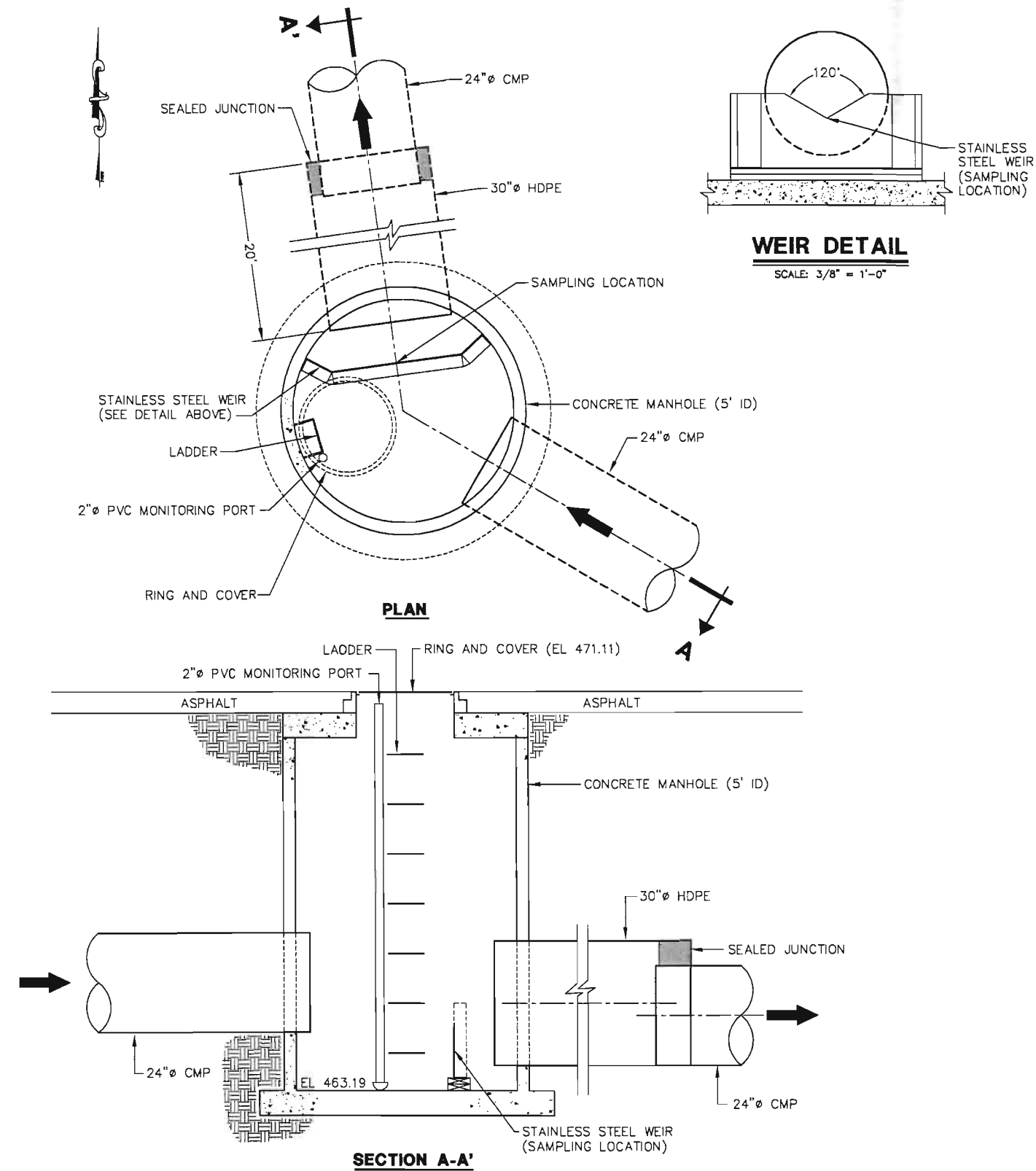
**TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS**

**2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087**

Monitoring Period Monitoring Date Sampler ID	ECL		May '09			June '09		July '09		August '09		September '09		October '09			November '09		December '09	
	Daily Max	Units	5/1/2009	5/15/2009	5/29/2009	6/11/2009	6/26/2009	7/10/2009	7/23/2009	8/5/2009	8/20/2009	9/4/2009	9/18/2009	9/30/2009	10/16/2009	10/30/2009	11/13/2009	11/24/2009	12/9/2009	12/22/2009
			rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc	rtc
SPDES Outfall 001																				
Flow Rate	Monitor	gpd	152	152	152	152	152	152	152	152	152	2314	2314	152	1196	152	152	152	152	1196
Temperature	90	°F	55	57	57	59	62	64	65	67	70	66	65	64	57	57	53	54	50	48
pH	6.0-9.0	SU	7.5	7.4	7.7	7.1	7.2	7.1	7.3	7.4	7.3	7.5	7.5	6.9	6.9	7	6.9	6.8	7.1	7.1
Solids, Total Suspended	10 (dry)	mg/l	<4	11	<4	9	<4	26	25	7	5	9	21	<4	<4	<4	9.5	<4	12	<4
	50 (wet)																			
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	4.2	<1	<1	<1	<1	<1	<1	<1	<1	2.1	<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
Trichloroethylene	10	ug/l	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	68	23	20	<10	42	12	<10	<10	20	<10	<10	16	80	12	10	23	<10	27
Oil & Grease	15	mg/l		<5		<5		<5			<5		<5		34		<5		<5	
Phenolics, Total	28	ug/l		<3		<3		5			<3		<3		<3		<3		<3	
Antimony, Total	300	ug/l				<10					<10						<10			
Chromium, Total	51	ug/l				<10					<10						10			
Fluoride, Total	2500	ug/l				1900					1900						760			
Lead, Total	13	ug/l				13					13						<10			
Zinc, Total	210	ug/l				28					28						27			
SPDES Outfall 002																				
Flow Rate	Monitor	gpd	37	101	37	37	4773	208	101	37	101	1582	844	3966	1582	208	364	101	101	364
Temperature	90	°F	54	56	55	61	65	63	65	65	68	67	66	58	56	56	57	58	53	46
pH	6.0-9.0	SU	7.7	7.5	6.7	7	7.6	7.1	7.3	7.7	7.6	7.8	7.7	7.2	7.8	7.4	7.9	7.1	7.7	7.7
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	9	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																			
Oil & Grease	15	mg/l		<5		33		<5			<5		<5		<5		<5		<5	
Phenolics, Total	24	ug/l		<3		5		5.5			<3		<3		<3		<3		<3	
Fluoride, Total	1500	ug/l				<100					<100						330			
SPDES Outfall 003																				
Flow Rate	Monitor	gpd	37800	23261	10427	25200	100800	25200	21600	8640	7560	10427	8640	100800	43200	75600	100800	30240	75600	37800
Temperature	90	°F	65	66	69	72	67	72	73	73	76	73	66	58	56	56	48	51	37	36
pH	6.0-9.0	SU	8.0	7.7	7	7.6	7.5	7.8	7.6	7.2	7.8	7.9	7.8	7.5	7.5	7.5	7.6	7.5	7.6	7.6
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	5	<4	<4	14	6	<4	6	4	<4	4.5	<4	<4	<4	<4
	50 (wet)																			
Chlorine, Total Residual	100	ug/l	45	45	50	50	40	45	50	50	55	55	60	45	55	45	40	50	50	45
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
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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l		<5		9.4		<5			<5		<5		<5		<5		<5	
Phenolics, Total	44	ug/l		<3		41		<3			<3		<3		<3		<3		<3	
PCBs, Aroclors (Compliance)	300	ng/l				<100					<100						<100			
PCBs, Congeners (1668A Study)	NA	pg/l																		
Lead, Total	10	ug/l				10					10						<10			
Zinc, Total	120	ug/l				15					15						12			

Notes:

1. ECL = Effluent Compliance Level.
2. gpd = gallons per day.
3. °F = Degrees Fahrenheit.
4. SU = Standard Units.
5. mg/l = milligrams per liter, approximately equivalent to parts per million (ppm).
6. ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb).
8. pg/l = picograms per liter, approximately equivalent to parts per quadrillion (ppq).
9. HTW = High Tail Water.
10. No Flow = No measurable discharge.
11. E = Estimated.
12. NA = Not analyzed.
13. Bolded values exceed permit effluent compliance levels.



X: CP-BASE
P: BL
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&M/DANAB06.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

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MAINTENANCE & MONITORING REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

**SPDES OUTFALL 001
MANHOLE
PLAN AND SECTION**

PROJECT NO.:
DANA 01-04
DATE:
MAY 2010
FIGURE NO.:
5-1



6.0 GROUNDWATER TREATMENT SYSTEM (JANUARY–DECEMBER 2009)

Section 6.0 documents the operations, monitoring and maintenance (OM&M) of the groundwater treatment system (GTS), 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. 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 Groundwater Treatment System Plan (Figure 6-1) provides the specific location of these components. CHA, on behalf of Chicago Pneumatic Tool Company (CPTC), has been conducting OM&M of the GTS since October 1, 2008.

6.1 System Construction

The treatment process includes removal of volatile organic compounds (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 (downgradient) 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.

Each pumping manhole contains two submersible pumps, arranged in lead/lag mode, and five bulb type control switches. MH-1 is equipped with 3/4 horsepower (hp), 65 gallons per minute (gpm) pumps and MH-2 is equipped with 1/2 hp, 10 gpm pumps. 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 groundwater treatment system area via a below grade containment piping system and single wall piping above grade. The groundwater treatment system components inside the building are located within a 6-foot high chain link fence, which is equipped with a locked security gate.

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 these pumps.

Groundwater is conveyed via the Goulds pumps from the equalization tank to two 50-micron bag filters on the effluent side of the pumps to capture smaller particles. The filter housing is a stainless steel

construction, which is rated for a maximum pressure of 120 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 via the existing phone line 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.

The operation and maintenance of the IRM GTS is not provided in the RA OM&M Manual. A separate O&M Manual, dated April 1995, was prepared by Blasland Bouck and Lee (BBL) to address the GTS components.

6.2 Operation (January 2009 – December 2009)

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 J, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from January 1, 2009 through December 31, 2009. A summary of alarm conditions and maintenance from January 1, 2009 through December 31, 2009 are presented in the following table.

Alarm Conditions and Maintenance Summary

January 1, 2009 – December 31, 2009

Date	Incident/Resolution
1/26/2009	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating normally.
2/2/2009- 2/9/2009	System was shut down and temporarily winterized due to power shut down in building on 2/2/2009. Power was then temporarily restored to system on 2/9/2009 and system was restarted.
2/10/2009 – 2/11/2009	CHA onsite with sub-consultant Alfie Electric to install electric line and sub-consultant Paragon Environmental to repair MH-2 pump, repair leak in MH-2 line, flush out MH-2 line of sediment build-up.

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2/12/2009- 2/13/2009	CHA on site with sub-contractor Alfie Electric to continue installing electrical line to system. CHA also responded to High Bag Filter Pressure Alarms periodically and cleaned strainers. System then running as designed.
2/16/2009- 2/17/2009	CHA on site with sub-contractor Alfie Electric to continue installing electrical line to system. GTS switched to permanent (new) electric line at end of day 2/17/2009.
2/18/2009- 2/20/2009	System in alarm due to lack of power, CHA responded with subcontractor Alfie Electric and Paragon Environmental. Power was restored and CHA changed bag filters and cleaned strainers until system continued to operate normally.
3/5/2009	MH-1 and EQ Tank-High Level Alarms caused system shutdown. CHA responded and pumped system manhole down manually until system was operating as designed.
3/9/2009- 3/10/2009	MH-1, MH-2, EQ Tank, and Floor Sump-High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating as designed.
4/1/2009	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating as designed.
4/8/2009	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating as designed.
4/22/2009	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating as designed.
4/30/2009	CHA on site with subcontractor Teleco to restore damaged phone line and access to EOS data management system.
6/24/2009	CHA on site with subcontractor Paragon Environmental to coordinate 1 55 gal. drum of bag filter waste, and 2 55 gal. drums of sludge from MH-2 line cleanout for waste disposal.
7/16/2009	MH-1, MH-2, and EQ Tank - High Level Alarms caused system shutdown; CHA responded and pumped manholes down manually. CHA changed out bag filters until system was operating as designed.
9/9/2009	MH-2 overload tripped in MS panel causing system shutdown and MH-2 High Level Alarm. CHA responded and pumped MH-2 manually until system was operating as designed.
10/23/2009	High Bag Filter Pressure Alarm caused system shut down; CHA responded and changed out bag filters until system was operating as designed.
10/30/2009	MH-2 overload tripped in MS panel causing system shutdown and MH-2 High Level Alarm. CHA responded and pumped MH-2 manually until system was 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 6-1. Between January 1, 2009 and December 31, 2009 approximately 2,517,924 gallons of water were pumped, treated, and discharged to Outfall 03A. The 2009 Manhole Flow Summary (Table 6-1), 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 2009. Between January 1, 2009 and December 31, 2009, for MH-1, the recorded low, recorded average, and recorded high flow rates per monitoring event are 0 gpd, 2,598 gpd, and 6,018 gpd, respectively. For MH-2, during this period the recorded low, recorded average and recorded high flow rates per monitoring event are 0 gpd, 4,319 gpd, and 6,855 gpd, respectively. The GTS processed an average of 6,917 gpd between January 1, 2009 and December 31, 2009.

Air stripper influent and effluent samples are collected and analyzed for the required VOCs. Effluent analytical data is collected to satisfy required conditions of Chicago Pneumatics' SPDES Permit (No. NY-0108537), and is discussed in Section 6.4. The January 1, 2009 through December 31, 2009 Influent and Effluent Analytical Summary (Table 6-2) 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. Table 6-3, the 2006 Air Stripper Flow Summary, provides weekly and monthly average flows measured during sampling events.

The information presented in Table 6-2 and Table 6-3 was developed to assist in evaluating mass removal of VOCs by the GTS. Table 6-4, the 2009 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, 2009 to December 31, 2009. As indicated, the total average annual removal efficiency was 99.9%, resulting in the removal of approximately 18.3 pounds of VOCs between the dates January 1, 2009 and December 31, 2009.

6.3 Maintenance and Troubleshooting

The following scheduled and unscheduled maintenance events resulted in the temporary shutdown of the GTS between January 1, 2009 and December 31, 2009:

- Section 6.2 summarizes the system alarm, shutdown and response implemented. These shutdowns resulted in the GTS being shut down for a relatively short period of time (generally 1-2 days).
- February 2, 2009 - February 9, 2009: GTS was shut down for seven days due to power disruption in the building. Power was temporarily discontinued because the tenant in this area of the building abruptly vacated the property.
- February 18, 2009 – February 20, 2009: GTS temporarily shut down to disconnect system from former internal power supply to new internal power supply.

6.4 SPDES Outfall 03A

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:
 - trichloroethylene (TCE);
 - cis-1,2-dichloroethene (cis-1,2-DCE);
 - trans-1,2-dichloroethene (trans-1,2-DCE); and
 - vinyl chloride (VC).

Between January 1, 2009 and December 31, 2009, representative both system and manhole samples were collected by CHA personnel, placed in appropriately labeled laboratory glassware, packed on ice, and delivered by the CHA sampling personnel to Life Sciences Laboratory in East Syracuse, New York. Specifically these samples were collected from the SPDES Outfall 03A sampling port as well as MH1

influent and MH2 influent sampling parts. Results from weekly sampling events conducted between January 1, 2009 and December 31, 2009 are provided in Table 6-5, the 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 DMRs. The monthly DMRs are presented in Appendix K. Between January 1, 2009 and December 31, 2009, there were no excursions to the SPDES Permit effluent limits.

6.5 Section 6 – Summary

The GTS has been operating for 15 years. Between January 1, 2009 and December 31, 2009 operation of the air stripper, pumps, and appurtenances has been consistent and continuous with the exception of early February when the system was shut down for seven days due to a power disruption. System maintenance and emergency responses are summarized in Section 6.2; 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 approximately 2,517,924 gallons of water was pumped, treated, and released to Outfall 03A between January 1, 2009 and December 31, 2009, operating at a 99.9% efficiency and removing approximately 18.3 pounds of VOCs.

6.6 Tables

- 6-1 2009 Manhole Flow Summary
- 6-2 2009 Influent and Effluent Analytical Summary
- 6-3 2009 Air Stripper Flow Summary
- 6-4 2009 Air Stripper Mass Removal Summary
- 6-5 Cumulative Summary of Outfall 03A Analytical Results

TABLE 6-1
JANUARY 1, 2009 THROUGH DECEMBER 31, 2009 MANHOLE FLOW SUMMARY

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Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
1/8/2009	2153508	1151807	9	1015	6626	7641
1/14/2009	2158171	1183162	6	777	5226	6003
1/21/2009	2162105	1214722	7	562	4509	5071
1/26/2009	2165155	1219253	5	610	906	1516
Average Monthly Flow			27	770	4707	5476

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
2/3/2009	2165155	1219253	8	0	0	0
2/12/2009	2174307	1261168	9	1017	4657	5674
2/20/2009	2214411	1296171	8	5013	4375	9388
2/24/2009	2227742	1319248	4	3333	5769	9102
Average Monthly Flow			29	2158	3448	5606

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
3/3/2009	2259288	1357628	7	4507	5483	9989
3/10/2009	2301412	1384356	7	6018	3818	9836
3/19/2009	2353739	1417688	9	5814	3704	9518
3/26/2009	2385289	1464284	7	4507	6657	11164
Average Monthly Flow			30	5252	4835	10086

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
4/1/2009	2407048	1484911	6	3627	3438	7064
4/8/2009	2407449	1489644	7	57	676	733
4/14/2009	2407449	1530771	6	0	6855	6855
4/22/2009	2425071	1535436	8	2203	583	2786
4/30/2009	2448649	1580458	8	2947	5628	8575
Average Monthly Flow			35	1810	3319	5130

TABLE 6-1
JANUARY 1, 2009 THROUGH DECEMBER 31, 2009 MANHOLE FLOW SUMMARY

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Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
5/6/2009	2464270	1608662	6	2604	4701	7304
5/12/2009	2481097	1636486	6	2805	4637	7442
5/19/2009	2501327	1669792	7	2890	4758	7648
5/27/2009	2521436	1705835	8	2514	4505	7019
Average Monthly Flow			27	2696	4644	7339

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
6/3/2009	2553531	1744184	7	4585	5478	10063
6/10/2009	2572333	1764546	7	2686	2909	5595
6/18/2009	2597340	1804868	8	3126	5040	8166
6/24/2009	2624761	1838916	6	4570	5675	10245
Average Monthly Flow			28	3690	4753	8443

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
7/2/2009	2646426	1875422	8	2708	4563	7271
7/8/2009	2661115	1902680	6	2448	4543	6991
7/16/2009	2678336	1929823	8	2153	3393	5546
7/22/2009	2692821	1958312	6	2414	4748	7162
7/30/2009	2710282	1992935	8	2183	4328	6511
Average Monthly Flow			36	15720	4278	19998

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
8/5/2009	2729070	2025421	6	3131	5414	8546
8/12/2009	2745941	2057504	7	2410	4583	6993
8/20/2009	2761532	2089662	8	1949	4020	5969
8/27/2009	2774286	2117147	7	1822	3926	5748
Average Monthly Flow			28	2286	4436	6722

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
9/2/2009	2791437	2147082	6	2859	4989	7848
9/9/2009	2805012	2155656	7	1939	1225	3164
9/17/2009	2818543	2192997	8	1691	4668	6359
9/23/2009	2827652	2213076	6	1518	3347	4865
9/30/2009	2845639	2243667	7	2570	4370	6940
Average Monthly Flow			34	2099	3721	5820

**TABLE 6-1
JANUARY 1, 2009 THROUGH DECEMBER 31, 2009 MANHOLE FLOW SUMMARY**

**2009 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
10/5/2009	2861271	2268777	5	3126	5022	8148
10/14/2009	2887621	2309861	9	2928	4565	7493
10/23/2009	2913970	2350944	9	2928	4565	7493
10/29/2009	2937901	2372942	6	3989	3666	7655
Average Monthly Flow			29	3181	4458	7639

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
11/5/2009	2944489	2412040	7	941	5585	6527
11/12/2009	2965782	2446369	7	3042	4904	7946
11/18/2009	2980309	2472250	6	2421	4314	6735
11/24/2009	2988390	2499545	6	1347	4549	5896
Average Monthly Flow			26	1942	4869	6811

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
12/3/2009	3013948	2539408	9	2840	4429	7269
12/10/2009	3021248	2572347	7	1043	4706	5748
12/16/2009	3043329	2602533	6	3680	5031	8711
12/22/2009	3065090	2632320	6	3627	4965	8591
12/29/2009	3090082	2664388	7	3570	4581	8151
Average Monthly Flow			35	4710	4710	9420

Summary of Manhole Flow for January 1, 2009 through December 31, 2009		
Total Flow	gal	gpd
MH-1	945,711	2598
MH-2	1,572,213	4319
Total 2009 Flow:	2,517,924	6917

Notes:

Average monthly manhole flow is based on daily average

Table 6-2
JANUARY 1, 2009 through DECEMBER 31, 2009 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2009 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																
1/8/2009	7.4	27	<1	<1	34.4	<10	430	<10	1300	1730	<1	<1	<1	<1	0	
1/14/2009											<1	<1	<1	<1	0	
1/21/2009											<1	<1	<1	1.1	1.1	
1/26/2009											<1	<1	<1	<1	0	0.3
2/3/2009	6.5	22	<1	7.9	36.4	<20	360	<20	1500	1860	0	0	0	0	0	
2/12/2009											<1	<1	<1	1.2	1.2	
2/20/2009											<1	1.4	<1	2.6	4	
2/24/2009											<1	<1	<1	<1	0	1.3
3/3/2009	6.3	16	<1	1.2	23.5	<10	230	<10	690	920	<1	<1	<1	<1	0	
3/10/2009											<1	<1	<1	<1	0	
3/19/2009											<1	<1	<1	<1	0	
3/26/2009											<1	1.2	<1	1.7	2.9	0.7
4/1/2009	24	12	<1	<1.8	36	<50	1500	<50	4800	6300	<1	<1	<1	1	1	
4/8/2009											<1	1.1	<1	1.8	2.9	
4/14/2009											<1	<1	<1	1.4	1.4	
4/22/2009											<1	<1	<1	<1	0	
4/30/2009											<1	<1	<1	<1	0	1.1
5/6/2009	6.9	31	<1	<1	37.9	<50	240	<50	830	1070	<1	<1	<1	1.3	1.3	
5/12/2009											<1	<1	<1	<1	0	
5/19/2009											<1	<1	<1	<1	0	
5/27/2009											<1	<1	<1	<1	0	0.3
6/3/2009	11	25	<1	1	37	<20	220	<20	790	1010	<1	<1	<1	<1	0	
6/10/2009											<1	<1	<1	<1	0	
6/18/2009											<1	<1	<1	<1	0	
6/24/2009											<1	<1	<1	<1	0	0.0
7/2/2009	16	37	<1	1.4	54.4	<20	240	<20	720	960	<1	<1	<1	<1	0	
7/8/2009											<1	<1	<1	<1	0	
7/16/2009											<1	<1	<1	<1	0	
7/22/2009											<1	<1	<1	<1	0	
7/30/2009											<1	<1	<1	<1	0	0.0
8/5/2009	10	29	<1	1.2	40.2	<20	240	<20	730	970	<1	<1	<1	<1	0	
8/12/2009											<1	<1	<1	<1	0	
8/20/2009											<1	<1	<1	<1	0	
8/27/2009											<1	<1	<1	<1	0	0.0
9/2/2009	10	35	<1	1.4	46.4	<20	220	<20	600	820	<1	<1	<1	<1	0	

Table 6-2
JANUARY 1, 2009 through DECEMBER 31, 2009 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2009 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	
9/9/2009											<1	<1	<1	<1	0	
9/17/2009											<1	<1	<1	<1	0	
9/23/2009											<1	<1	<1	<1	0	
9/30/2009											<1	<1	<1	<1	0	0.0
10/5/2009	14	30	<1	1.2	45.2	<20	230	<20	590	820	<1	<1	<1	<1	0	
10/14/2009											<1	<1	<1	<1	0	
10/23/2009											<1	<1	<1	<1	0	
10/29/2009											<1	<1	<1	<1	0	0.0
11/5/2009	9	33	<1	<1	42	<20	230	<20	700	930	<1	<1	<1	<1	0	
11/12/2009											<1	<1	<1	<1	0	
11/18/2009											<1	<1	<1	<1	0	
11/24/2009											<1	<1	<1	<1	0	0.0
12/3/2009	7	34	<1	<1	41	<20	200	<20	540	740	<1	1	<1	1.9	2.9	
12/10/2009											<1	<1	<1	<1	0	
12/16/2009											<1	1.1	<1	<1	1.1	
12/22/2009											<1	1.2	<1	<1	1.2	
12/29/2009											<1	1.2	<1	<1	1.2	1.3

Notes:

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

TABLE 6-3
2009 AIR STRIPPER FLOW SUMMARY

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/8/2009	7641
1/14/2009	6003
1/21/2009	5071
1/26/2009	1516
Average Monthly Flow (gpd) 5058	
2/3/2009	0
2/12/2009	5674
2/20/2009	9388
2/24/2009	9102
Average Monthly Flow (gpd) 6041	
3/3/2009	9989
3/10/2009	9836
3/19/2009	9518
3/26/2009	11164
Average Monthly Flow (gpd) 10127	
4/1/2009	7064
4/8/2009	733
4/14/2009	6855
4/22/2009	2786
4/30/2009	8575
Average Monthly Flow (gpd) 5203	
5/6/2009	7304
5/12/2009	7442
5/19/2009	7648
5/27/2009	7019
Average Monthly Flow (gpd) 7353	
6/3/2009	10063
6/10/2009	5595
6/18/2009	8166
6/24/2009	10245
Average Monthly Flow (gpd) 8517	
7/2/2009	7271
7/8/2009	6991
7/16/2009	5546
7/22/2009	7162
7/30/2009	6511
Average Monthly Flow (gpd) 6696	

TABLE 6-3
2009 AIR STRIPPER FLOW SUMMARY

2009 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

8/5/2009	8546	
8/12/2009	6993	
8/20/2009	5969	
8/27/2009	5748	
Average Monthly Flow (gpd)		6814
9/2/2009	7848	
9/9/2009	3164	
9/17/2009	6359	
9/23/2009	4865	
9/30/2009	6940	
Average Monthly Flow (gpd)		5835
10/5/2009	8148	
10/14/2009	7493	
10/23/2009	7493	
10/29/2009	7655	
Average Monthly Flow (gpd)		7697
11/5/2009	6527	
11/12/2009	7946	
11/18/2009	6735	
11/24/2009	5896	
Average Monthly Flow (gpd)		6776
12/3/2009	7269	
12/10/2009	5748	
12/16/2009	8711	
12/22/2009	8591	
12/29/2009	8151	
Average Monthly Flow (gpd)		7694

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 6-4
January 1, 2009 - December 31, 2009 AIR STRIPPER MASS REMOVAL SUMMARY

2009 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	1492	0.28	1492	100.0	5058	1.7
Feb	1158	1.30	1157	99.9	6041	1.7
Mar	453	0.73	452	99.8	10127	1.1
Apr	4089	1.06	4088	100.0	5203	6.2
May	691	0.33	691	100.0	7353	1.1
Jun	585	0.00	585	100.0	8517	1.2
Jul	248	0.00	248	100.0	6696	0.5
Aug	654	0.00	654	100.0	6814	1.0
Sep	541	0.00	541	100.0	5835	0.9
Oct	497	0.00	497	100.0	7697	0.9
Nov	677	0.00	677	100.0	6776	1.0
Dec	391	1.28	390	99.7	7694	0.9
2009 Average (%)⁶:				99.9	2009 Total (lbs):	18.3

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) Life Sciences Laboratories detection limit equals 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of less than 1.0 ug/L, i.e. 0.99 ug/L.

6) 2009 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-5
JANUARY 1, 2009 through DECEMBER 31 2009 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2009 ANNUAL OM 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		
1/8/2009	<1	<1	<1	<1	7641	8.52
1/14/2009	<1	<1	<1	<1	6003	8.75
1/21/2009	<1	<1	1.1	<1	5071	8.65
1/26/2009	<1	<1	<1	<1	1516	8.75
2/3/2009	0	0	0	0	0	0
2/12/2009	<1	<1	1.2	<1	5674	8.98
2/20/2009	1.4	<1	2.6	<1	9388	8.19
2/24/2009	<1	<1	<1	<1	9102	8.37
3/3/2009	<1	<1	<1	<1	9989	8.43
3/10/2009	<1	<1	<1	<1	9836	7.92
3/19/2009	<1	<1	<1	<1	9518	8.16
3/26/2009	1.2	<1	1.7	<1	11164	8.48
4/1/2009	<1	<1	1	<1	7064	8.41
4/8/2009	1.1	<1	1.8	<1	733	8.02
4/14/2009	<1	<1	1.4	<1	6855	8.49
4/22/2009	<1	<1	<1	<1	2786	8.36
4/30/2009	<1	<1	<1	<1	8575	8.37
5/6/2009	<1	<1	1.3	<1	7304	8.58
5/12/2009	<1	<1	<1	<1	7442	8.59
5/19/2009	<1	<1	<1	<1	7648	8.49
5/27/2009	<1	<1	<1	<1	7019	8.27
6/3/2009	<1	<1	<1	<1	10063	8.32
6/10/2009	<1	<1	<1	<1	5595	8.27
6/18/2009	<1	<1	<1	<1	8166	8.45
6/24/2009	<1	<1	<1	<1	10245	8.3

TABLE 6-5
JANUARY 1, 2009 through DECEMBER 31 2009 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2009 ANNUAL OM 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		
7/2/2009	<1	<1	<1	<1	7271	8.41
7/8/2009	<1	<1	<1	<1	6991	8.38
7/16/2009	<1	<1	<1	<1	5546	8.29
7/22/2009	<1	<1	<1	<1	7162	8.38
7/30/2009	<1	<1	<1	<1	6511	8.37
8/5/2009	<1	<1	<1	<1	8546	8.18
8/12/2009	<1	<1	<1	<1	6993	8.02
8/20/2009	<1	<1	<1	<1	5969	8.11
8/27/2009	<1	<1	<1	<1	5748	8.12
9/2/2009	<1	<1	<1	<1	7848	8.45
9/9/2009	<1	<1	<1	<1	3164	8.16
9/17/2009	<1	<1	<1	<1	6359	8.12
9/23/2009	<1	<1	<1	<1	4865	8.03
9/30/2009	<1	<1	<1	<1	6940	8.03
10/5/2009	<1	<1	<1	<1	8148	8.24
10/14/2009	<1	<1	<1	<1	7493	8.22
10/23/2009	<1	<1	<1	<1	7493	8.06
10/29/2009	<1	<1	<1	<1	7655	8.25

TABLE 6-5
JANUARY 1, 2009 through DECEMBER 31 2009 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2009 ANNUAL OM REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

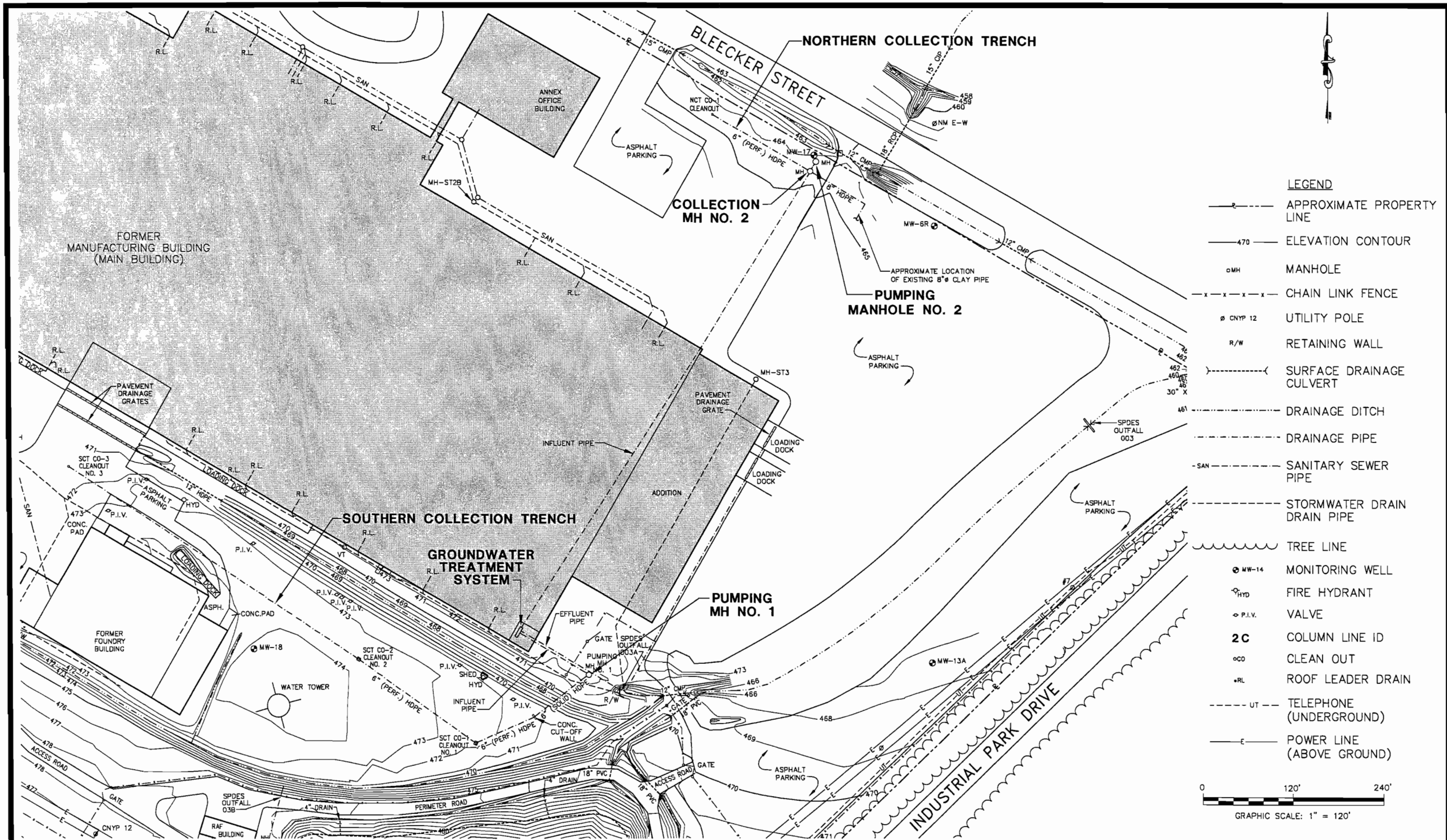
Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	10	10	10	10		
11/5/2009	<1	<1	<1	<1	6527	8.21
11/12/2009	<1	<1	<1	<1	7946	8.26
11/18/2009	<1	<1	<1	<1	6735	8.22
11/24/2009	<1	<1	<1	<1	5896	8.14
12/3/2009	1	<1	1.9	<1	7269	8.35
12/10/2009	<1	<1	<1	<1	5748	8.08
12/16/2009	1.1	<1	<1	<1	8711	8.06
12/22/2009	1.2	<1	<1	<1	8591	7.93
12/29/2009	1.2	<1	<1	<1	8151	8.17

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.

6.7 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

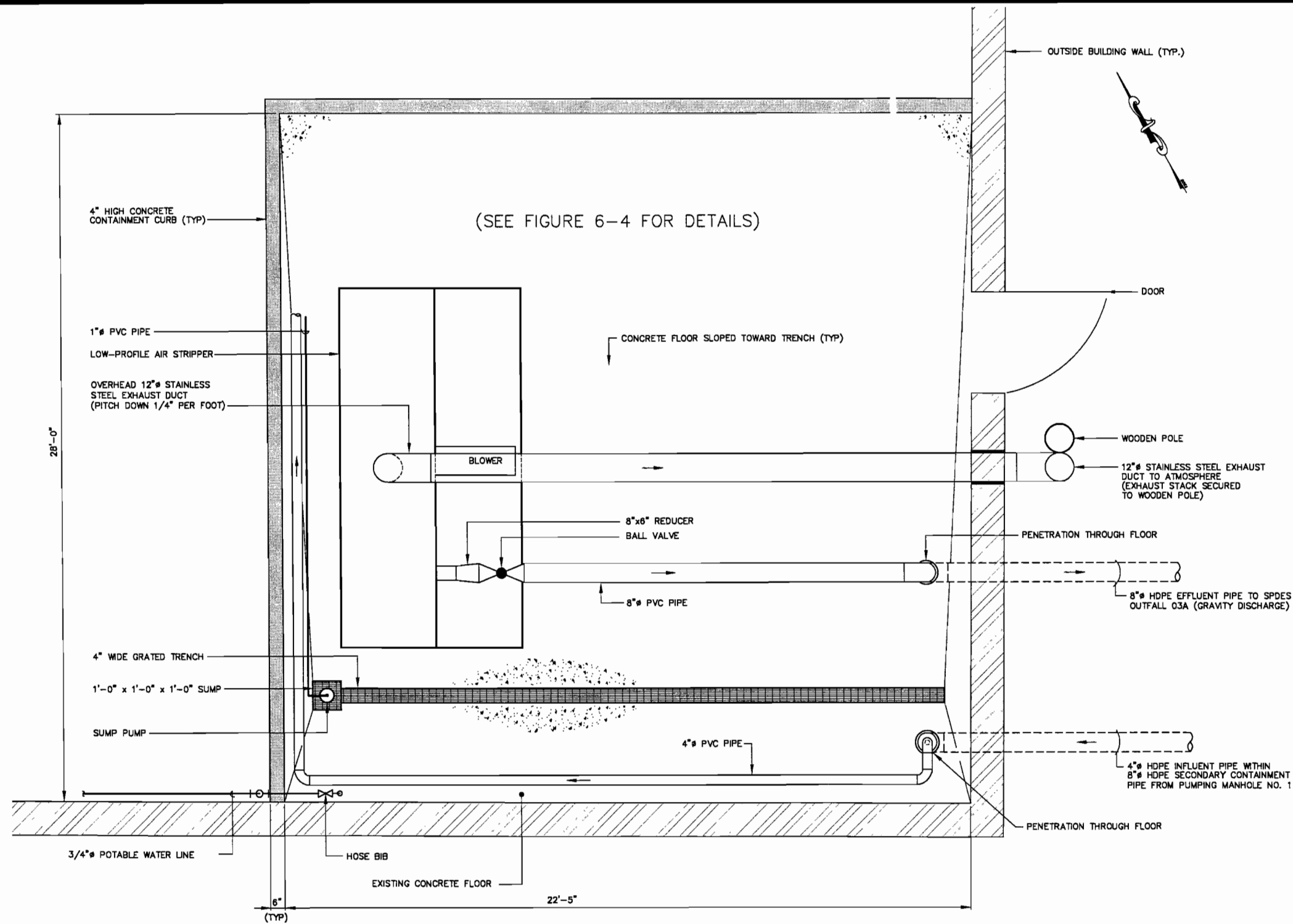


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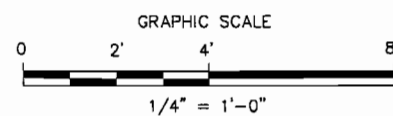
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAYE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ALL ORIGINAL DRAINS AND DRAIN PIPE LOCATIONS INSIDE AND OUTSIDE OF THE BUILDINGS WERE DIGITIZED FROM COPIES OF THE 1948 CONSTRUCTION DRAWINGS AND ARE APPROXIMATE.

X: CP-BASE
028BW
2/12/09
SYNAPSE/MP/DANA 01-04/2008OP&N/DANAB12.DWG

synapse SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT STORES 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2009 ANNUAL OPERATION, MAINTENANCE & MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	GROUNDWATER TREATMENT SYSTEM PLAN	PROJECT NO.: DANA 01-10 DATE: JULY 2010 FIGURE NO.: 6-1
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FLOOR PLAN
1/4" = 1'-0"



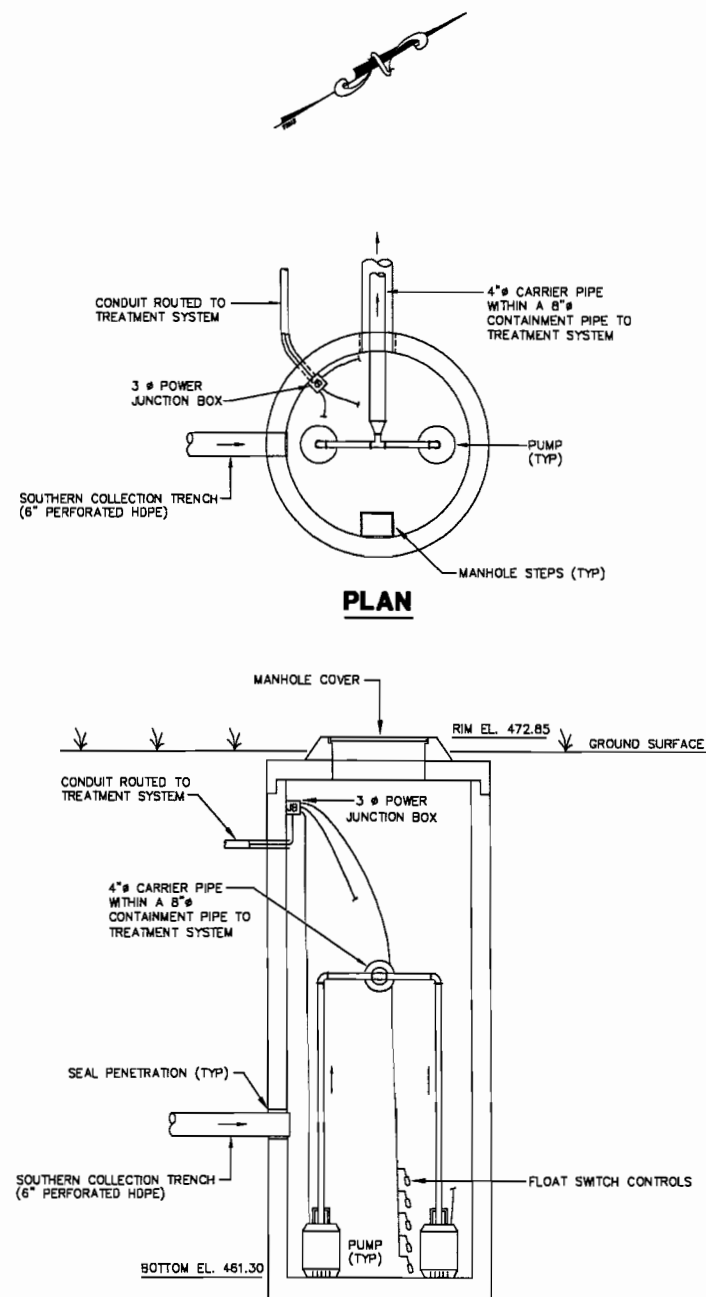
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2/12/09
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synapse
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2009 ANNUAL OPERATION,
MAINTENANCE & MONITORING REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

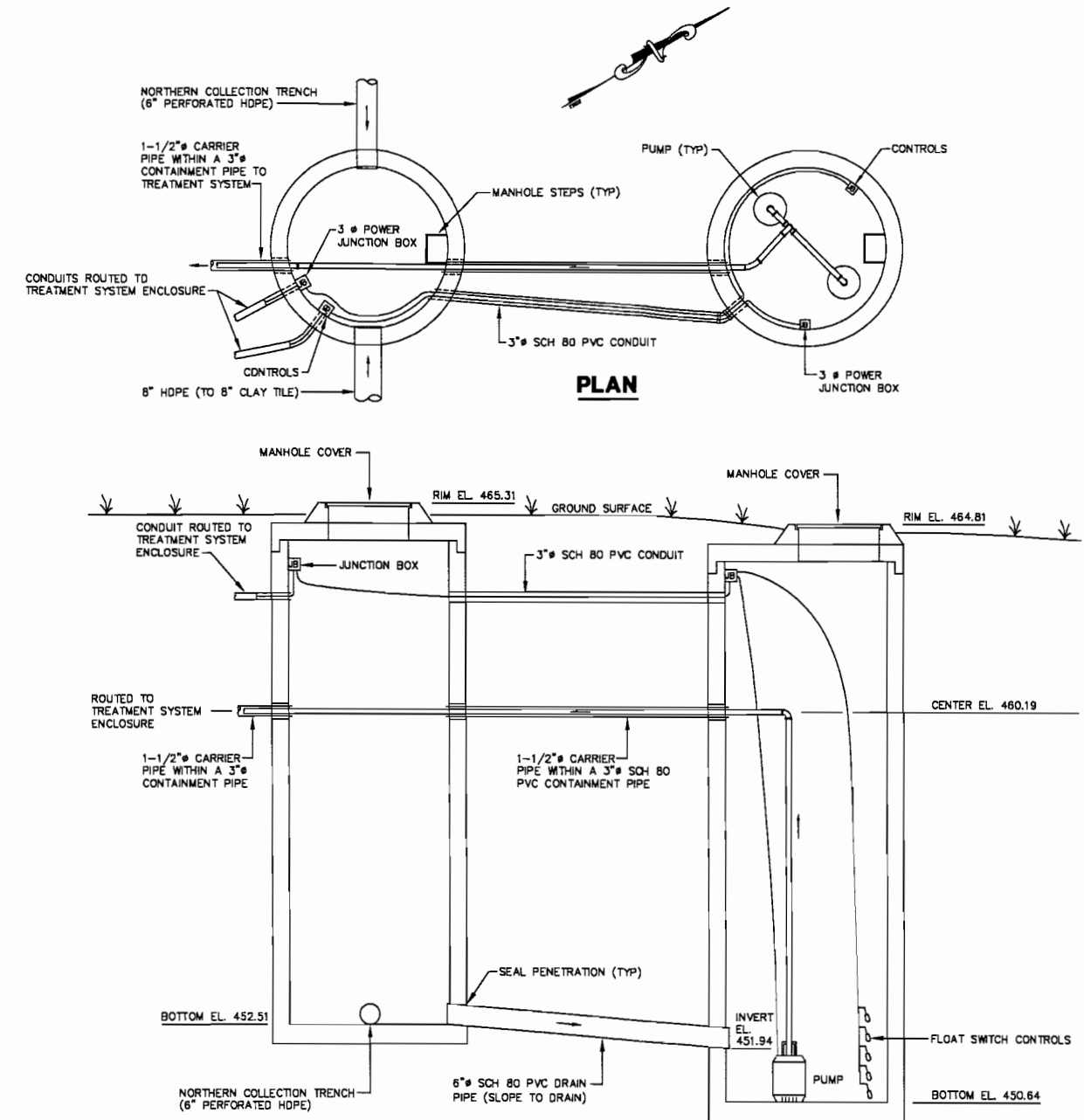
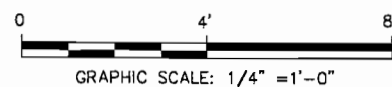
AIR STRIPPER PLAN

PROJECT NO.:
DANA 01-04
DATE:
MAY 2010
FIGURE NO.:
6-2



PUMPING MANHOLE NO. 1 PLAN AND SECTION

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

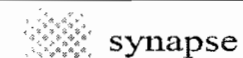


COLLECTION MANHOLE

PUMPING MANHOLE

PUMPING MANHOLE NO. 2 PLAN AND SECTION

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

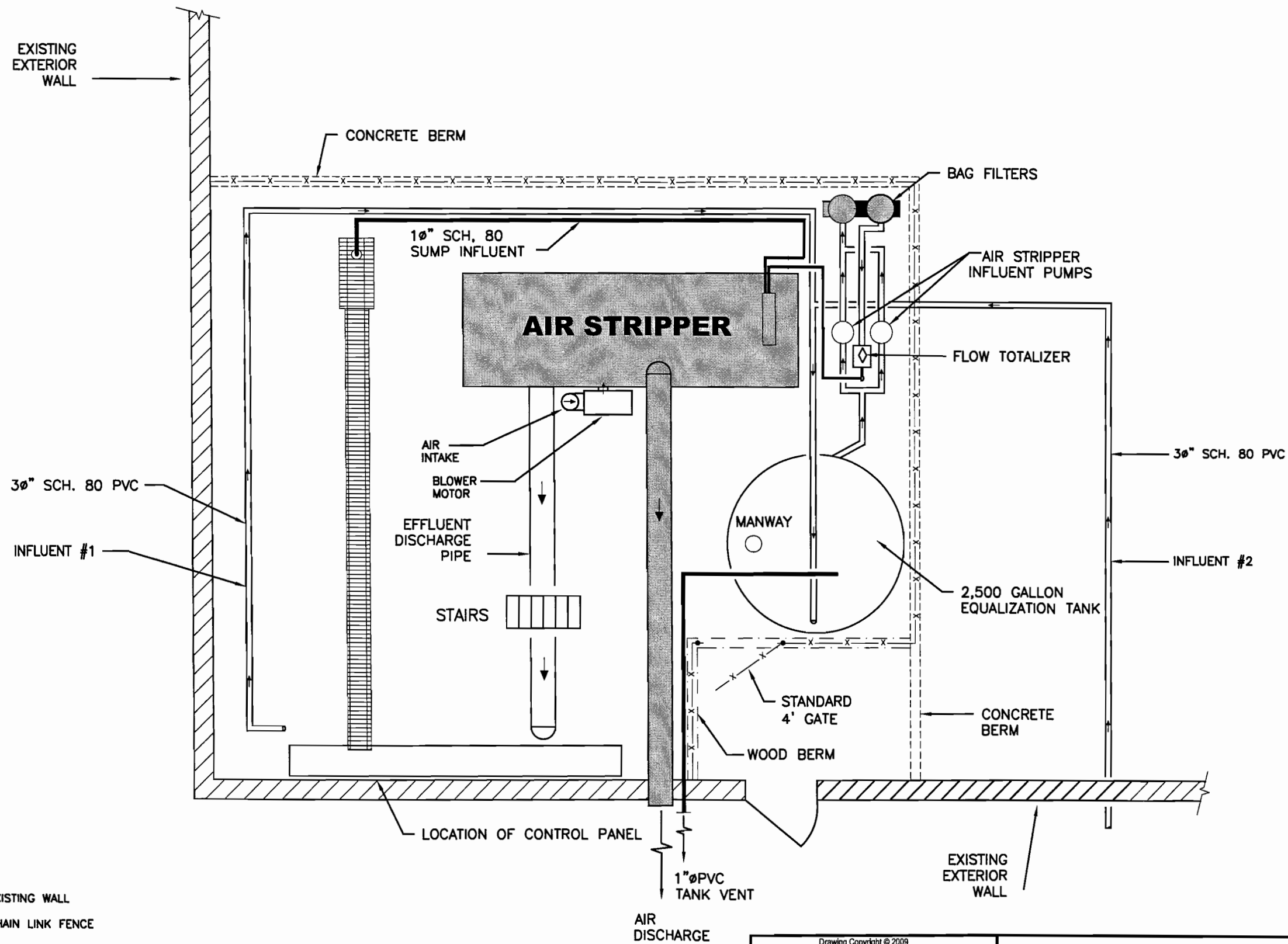


SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT STORES
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

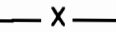
2009 ANNUAL OPERATION,
MAINTENANCE & MONITORING REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

**PUMPING MANHOLE
PLANS AND SECTIONS**

PROJECT NO.:
DANA 01-04
DATE:
MAY 2010
FIGURE NO.:
6-3



LEGEND

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



PLAN VIEW
NOT TO SCALE

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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**

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

**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: 1/20/2009

Category	Inspected	Observation/Condition	J
1 General Property			
A	General Property Access		/
B	General Property Drainage	SPDES Outfall (001 <u>/</u> 002 <u>/</u> 003 <u>/</u>)	/
2 Cell Perimeter Components			
A	Perimeter and Access Roads		/
B	Ditches		/
C	Culverts		/
D	Perimeter Fence	Gates <u>/</u>	/
E	Utilities	Elec. <u>/</u> Phone <u>/</u>	/
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>29.1</u> Pump 2 Hours <u>215.1</u>	/
B'	Pump Changeover	(Y or <u>(N)</u>) Lead Pump <u>189.9</u> Lag Pump <u>215.1</u>	/
B''	Test Automatic Pump Controls	LSHH _____, LSH _____, LSL _____, LSLI _____	/
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)	/



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

D. 622003
Date: 1/20/2009

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: 2/26/2009

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>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
C	Culverts		✓
D	Perimeter Fence	Gates <u>✓</u>	✓
E	Utilities	Elec. <u>✓</u> Phone <u>✓</u>	✓
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>130.2</u> Pump 2 Hours <u>215.1</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump <u>✓</u> Lag Pump _____	✓
B''	Test Automatic Pump Controls	LSHH _____, LSH _____, LSL _____, LSLL _____	✓
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)	✓



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

Category	Inspected	Observation/Condition	J
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>70800</u> 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)	/

[illegible]

**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: 3/11/09

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 - Some Maintenance Required	✓
B	Ditches	Good	✓
C	Culverts	Good	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>1</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		✓
D	Perimeter Drains (4)	Slight Flow	✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u> </u> Pump 2 Hours <u> </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		✓
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: 3/11/2009

Category	Inspected	Observation/Condition	J
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>711</u> 00 gal.	☒
B	Secondary Containment	Liquid (Y or <u>N</u>)	☒
C	Piping Components		☒
D	Electrical Components	Lock ☒ Light Bulbs ☒	☒
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	☒

Additional Comments:

- ① Discharged ~ 920 gallons from leachate tank to the outfall 03b
- ② Transferred ~ 515 gallons from Collection manifold to Leachate Tank
- ③ Start at 96" → 73"
- ④ Transfer, 73" → 83"
- ⑤ Flow Reading 71600

**RAF MONTHLY INSPECTION REPORT (FORM A)
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**REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003**

Synapse Representative: R. Creighton

Date: 3/27/2009

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>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
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> </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		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>130.4</u> Pump 2 Hours <u>215.1</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> , LSLL <u> </u>	✓
C	Electrical Components	Test Pumps (Y or <u>N</u>), Light Bulbs <u> </u>	✓
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: 3/27/2009

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 <u>N</u>) (see Form F)	
6 Leachate Storage System			
A	Tank (External)	Internal (Y or <u>N</u>)	
A'	Flow Totalizer	Reading = <u>714.00</u> gal.	
B	Secondary Containment	Liquid (Y or <u>N</u>)	
C	Piping Components		
D	Electrical Components	Lock____ Light Bulbs____	
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	

Additional Comments:

LT-16 Discharge to outfall-03B (Lost Tank Filling)
Set up 2" pump in 5000 gallon leachate tank
11:25 → 83 1/2" = 4607 gallons
12:55 → 33" = 1526 gallons
13:25 → 8" = (200) 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: 4/8/09

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	Good	✓
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)	<u> </u>	✓
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)		✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>130.4</u> Pump 2 Hours <u>215.1</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> , LSLL <u> </u>	✓
C	Electrical Components	Test Pumps (Y or <u>(N)</u>) Light Bulbs <u> </u>	✓
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: 4/8/2009

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock____, Vent____, Heater____	/
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 (Y or N)	/
A'	Flow Totalizer	Reading = <u>716</u> 00 gal.	/
B	Secondary Containment	Liquid (Y or <u>N</u>)	/
C	Piping Components		/
D	Electrical Components	Lock____ Light Bulbs____	/
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	/

Additional Comments:

Op-TECH on site for Leachate Tank change out to outfall-0036



**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: 5/29/2009

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		✓
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		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>130.6</u> Pump 2 Hours <u>215.1</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		✓
E	Conveyance Pipe		✓
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: 5/29/2009

Category	Inspected	Observation/Condition	J
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 = 716 100 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)	/

Additional Comments:

[illegible]

**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: 6/26/2009

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>)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
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>2</u> Vegetation <u>95%</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>130.7</u> Pump 2 Hours <u>215.1</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		✓
E	Conveyance Pipe		✓
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:

On site to Discharge ~500 gallons from leachate collection Manhole to outfall O3B

**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: 7/23/2009

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		✓
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 <u>130.6</u> Pump 2 Hours <u>215.1</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		✓
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**

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: CRAIGTON/FISHER Date: 8-5-09

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) <u>SAMPLED</u>	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches	<u>VEGETATED</u>	✓
C	Culverts		✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows <u>5</u> Vegetation <u>75%</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 ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours <u>131.2</u> Pump 2 Hours <u>216.2</u> (<u>NEED COVERS</u>)	✓
B'	Pump Changeover	(Y or N) Lead Pump ___ Lag Pump ___ <u>OFF</u>	✓
B''	Test Automatic Pump Controls	LSHH ✓, LSH ___, LSL ___, LSLI ___ <u>Not in Use</u>	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs ✓	✓
D	Manhole Interstitial Space		✓
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: CRICHTON / FISHER Date: 8-5-09

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ☒ , Vent ☒ , Heater <u>OFF</u>	☒
B	Electrical and Telephone	Elec ☒ Phone ☒	☒
C	Auto Dialer and Controls	Test Functions <u>(Y or N) (see Form F)</u>	☒
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N) <u>EMPTY</u>	☒
A'	Flow Totalizer	Reading = <u>725.00</u> gal. <u>IN MH</u>	☒
B	Secondary Containment	Liquid (Y or N) <u>(Y)</u>	☒
C	Piping Components		☒
D	Electrical Components	Lock ☐ Light Bulbs ☐	☒
E	Leachate Sampling	(Y or N) <u>(Y)</u> (see Form C)	☒

Additional Comments:

TANK NOT IN USE



**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: Roger Creighton Date: 9/4/2009

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>) SPDES Sampling	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
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>95%</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)		✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>131.4</u> Pump 2 Hours <u>216.2</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> , LSL <u> </u>	✓
C	Electrical Components	Test Pumps (Y or N) Light Bulbs <u>1</u> change bulb	✓
D	Manhole Interstitial Space		✓
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: R. Creghton

Date: 9/4/2009

Category	Inspected	Observation/Condition	J
5 Building			
A	Structure	Lock___, Vent___, Heater___	/
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 (Y or <u>N</u>) NOT IN USE	/
A'	Flow Totalizer	Reading = <u>731.00</u> gal.	/
B	Secondary Containment	Liquid (Y or <u>N</u>)	/
C	Piping Components		/
D	Electrical Components	Lock___ Light Bulbs___	/
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	/

Additional Comments:

Discharge ~ 600 gallon to outfall 03B
Reset Lead/Lag pump



**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: 10/30/09

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>SPDES Sampling</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>1</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>Clear</u>	✓
4 Leachate Collection Manhole			
A	Structure	External <u> </u> Internal <u> </u>	✓
B	Pumps and Plumbing	Pump 1 Hours <u>131.4</u> Pump 2 Hours <u>216.2</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		✓
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: 10/30/09

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ☒ , Vent ☒ , Heater <u>off</u> <u>close</u> Vent	☒
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 (Y or <u>N</u>)	☒
A'	Flow Totalizer	Reading = <u>731</u> 00 gal.	☒
B	Secondary Containment	Liquid (Y or N)	☒
C	Piping Components		☒
D	Electrical Components	Lock ☒ Light Bulbs ☒	☒
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	☒

Additional Comments:

SOGG's is replacing the Roof at the Annex
work in former Dodge graphics Area

**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: 11/25/2009

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___) <u>SPDES Sampling</u>	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
C	Culverts		✓
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>1344</u> Pump 2 Hours <u>21612</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		✓
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: 11/25/2009

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 N) <u>(N)</u> (see Form F)	☒
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N)	☒
A'	Flow Totalizer	Reading = <u>731.00</u> gal.	☒
B	Secondary Containment	Liquid (Y or N)	☒
C	Piping Components		☒
D	Electrical Components	Lock ☐ Light Bulbs ☐	☒
E	Leachate Sampling	(Y or N) <u>(N)</u> (see Form C)	☒

Additional Comments:

Sampled Leachate Collection Manhole
Ship to Test America



**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: 12/3/2009

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001___ 002___ 003___) <u>SPDES</u>	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
C	Culverts		✓
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>131.4</u> Pump 2 Hours <u>210.9</u>	✓
B'	Pump Changeover	(Y or <u>N</u>) Lead Pump ___ Lag Pump___	✓
B''	Test Automatic Pump Controls	LSHH___, LSH___, LSL___, LSLI___	✓
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: 12/3/2009

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 (Y or <u>N</u>)	✓
A'	Flow Totalizer	Reading = <u>73600</u> gal.	✓
B	Secondary Containment	Liquid (Y or <u>N</u>)	✓
C	Piping Components		✓
D	Electrical Components	Lock___ Light Bulbs___	✓
E	Leachate Sampling	(Y or <u>N</u>) (see Form C)	✓

Additional Comments:

Discharge ~ 500 gallons to outfall 03B

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

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

**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: R. Creighton
Tested Alarm: Y or (N)
Date Tested: 3/11/2009

Received Alarm: (Y) or N
Date Received: 3/10/2009
Time Received: 14:30

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)		Measured: <u>95"</u> Reading: <u>96"</u>
2	Tank High Level (100%)	✓	
3	Tank Leak		
4	Tank 90% Full		
5	High Manhole Level	✓	
6	Manhole Leak		
7	Pipe Leak		
8	Tank Low Temperature		
9	Inside Temperature		
10	Outside Temperature		
11-15	Not In Use		
16	Power Off		

Reason for Alarm: High Manhole level & High Tank (100%)

Action Taken: Discharge ~ 920 gallons from Tank to outfall 03B

Comments: Transfer ~ 500 gallons to Tank
Return next week with larger pump

**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: R. Creighton
Tested Alarm: Y or N
Date Tested: 3/11/09

Received Alarm: Y or N
Date Received: 3/10/2009
Time Received: 14:30

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)		Measured: _____ Reading: _____
2	Tank High Level (100%)	✓	83" 82" - measured
3	Tank Leak		
4	Tank 90% Full		
5	High Manhole Level	✓	
6	Manhole Leak		
7	Pipe Leak		
8	Tank Low Temperature		
9	Inside Temperature		
10	Outside Temperature		
11-15	Not In Use		
16	Power Off		

Reason for Alarm: High Manhole / High TANK 100%

Action Taken: _____

Comments: 82" - ISSACC = 83"

APPENDIX C
LEACHATE DISPOSAL CORRESPONDENCE AND ANALYTICAL DATA

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

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

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

**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: R. Creighton Date: 4/13/2009

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	4.03	461.44	6.48	10:32	
MW-13A	10.92	10.92	469.23	2.56	466.67	8.36	10:05	
MW-14	13.00	12.90	478.37	3.56	474.81	9.34	9:30	
MW-17	11.25	11.24	466.02	11.01	455.01	0.23	10:45	
MW-18	11.73	11.72	475.96	5.12	470.84	6.6	11:05	
SCT CO-1	—	—	472.30	—	—	—	—	
SCT CO-2	—	—	473.42	7.68	465.74	—	12:01	
SCT CO-3	—	—	471.21	—	—	—	—	
NCT CO-1	—	—	464.70	—	—	—	—	
MH-2 (Collection)	12.80	12.80	465.31	11.91	453.4	—	12:30	

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: R. Creighton Date: 10/15/2009

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	4.27	461.20	6.14	9:05	
MW-13A	10.92	10.77	469.23	3.65	465.58	7.12	10:40	
MW-14	13.00	12.85	478.37	4.57	473.80	8.28	10:30	
MW-17	11.25	11.25	466.02	10.96	455.06	0.29	9:15	
MW-18	11.73	11.73	475.96	5.82	470.14	5.91	11:10	
SCT CO-1	—	—	472.30	—	—	—	—	
SCT CO-2	—	—	473.42	7.66	465.76	—	10:15	
SCT CO-3	—	—	471.21	—	—	—	—	
NCT CO-1	—	—	464.70	—	—	—	—	
MH-2 (Collection)	12.80	12.78	465.31	11.96	453.35	—	11:25	

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: _____

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

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

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. Crompton Date: 4/13/2009 Well Number: MW-6R

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9)

3 Gallons

Purge Volume Calculation: $\frac{(10.51 - 4.03)}{TD \text{ (ft.)}} \times \frac{.163}{WL \text{ (ft.)}} \times \frac{3}{\#VOLS} = \frac{3.16}{\text{Purge Vol.}}$ Gallons
(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
10:40	1	7.5	0.432	4.03	.09	309	6.65	
10:47	2	7.3	0.475	5.12	.09	625	6.56	
10:52	3	7.2	0.499	8.26	.09	546	6.78	

WELL SAMPLING

Sample ID: MW6R Receiving Lab (Chain of Custody): LSL

General Notes: 4/14/09 - Metals (13:25hrs)

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: 4/13/2009 Well Number: MW-13A

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

Purge Method

TD = Total Depth of Well (from Form C)

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9)

3.5 Gallons

Purge Volume Calculation: $(\frac{10.72}{TD \text{ (ft.)}} - \frac{2.56}{WL \text{ (ft.)}}) \times .163 \text{ Vol/ft.} \times 3 \text{ \#VOLS} = \frac{4.01}{Purge \text{ Vol.}} \text{ Gallons}$
(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
10:10	1	8.5	0.681	3.42	.08	1	7.07	
10:16	2	7.7	0.424	4.36	.08	54	7.15	
10:24	3	7.6	0.421	5.44	.08	155	7.14	

WELL SAMPLING

Sample ID: MW-13A Receiving Lab (Chain of Custody): LSL

General Notes: Metals 4/14/2009 (13:00)

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: 4/13/2009 Well Number: MW-14

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9)

4 Gallons

Purge Volume Calculation:
$$\frac{(12.90 - 3.56)}{TD \text{ (ft.)}} \times \frac{WL \text{ (ft.)}}{Vol/ft.} \times \frac{3}{\#VOLS} = \frac{4.5}{Purge \text{ Vol.}} \text{ Gallons}$$

(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
9:40	1	8.5	0.207	4.02	16.15	0	6.35	
9:46	2	7.9	0.199	5.79	7.70	31	6.74	
9:55	3	7.6	0.201	8.29	2.40	275	6.94	

WELL SAMPLING

Sample ID: MW-14 Receiving Lab (Chain of Custody): LSL

General Notes: Metals 4/14/2009 (13:50)

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

AIR MONITORING

WELL PURGING

Purge Method

Bailer Type: Reusable Disposable Dedicated

Actual Volume Generated

Gallons

FIELD PARAMETER MEASUREMENT

[illegible]

General Notes: MW-18 Metals 4/14/2009 (14:05)

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. Craghton Date: 10/15/2009 Well Number: MW-6R

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposable Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9) 3 Gallons

Purge Volume Calculation: $\frac{(10.41 - 4.27)}{TD \text{ (ft.)}} \times \frac{.163}{WL \text{ (ft.)}} \times \frac{3}{\#VOLS} = \frac{3}{Purge \text{ Vol.}}$ Gallons
(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
9:10	1	14.9	730	4.30	8.31	280	6.96	
9:16	2	15.5	1406	5.26	8.52	433	6.97	
9:26	3	15.8	716	7.24	8.37	341	6.80	

WELL SAMPLING

Sample ID: MW-6R Receiving Lab (Chain of Custody):

General Notes: Metals 10/16/2009 (12:40)

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: 10/15/2009 Well Number: MW-13A

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9) 3 Gallons

Purge Volume Calculation: $\left(\frac{0.17}{TD \text{ (ft.)}} - \frac{3.65}{WL \text{ (ft.)}} \right) \times \frac{.163}{Vol/ft.} \times \frac{3}{\#VOLS} = \frac{3.5}{Purge \text{ Vol.}}$ Gallons
(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:07	1	14.7	0.382	4.26	8.07	12	7.11	
11:16	2	15.9	0.387	5.85	7.81	130	7.15	
11:24	3	16.6	0.386	9.26	7.86	102	7.17	

WELL SAMPLING

Sample ID: MW-13A Receiving Lab (Chain of Custody): LSL

General Notes: Metals 10/16/2009 (13:40)



**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: 10/15/2009 Well Number: MW-14

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9) 3.5 Gallons

Purge Volume Calculation:
$$\frac{(12.85 - 4.57)}{TD \text{ (ft.)}} \times \frac{WL \text{ (ft.)}}{Vol/ft.} \times \frac{3}{\#VOLS} = \frac{4.04}{Purge \text{ Vol.}} \text{ Gallons}$$

(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:26	1	11.1	0.248	5.20	9.07	0	6.73	
11:39	2	11.8	0.250	6.43	9.39	14	6.38	
11:47	3	12.1	0.249	7.49	9.45	14	6.86	

WELL SAMPLING

Sample ID: MW-14 Receiving Lab (Chain of Custody): LSL

General Notes: Metals 10/16/2009 (14:10)

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: 10/15/2009 Well Number: MW-18

AIR MONITORING

PID Model: Background: ppm At Well ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Purge Method

Bailer Type: Reusable Disposible Dedicated

WL = Water Level Depth (from Form C)

Actual Volume Generated

VOL = Number of Well Volumes to Be Purged (3-9) 2.5 Gallons

Purge Volume Calculation: $\frac{(11.73 - 5.82)}{TD \text{ (ft.)}} \times \frac{.163}{WL \text{ (ft.)}} \times \frac{3}{\#VOLS} = \frac{2.8}{Purge \text{ Vol.}}$ Gallons
(for 2" diameter well) (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
13:10	1	13.1	0.498	6.26	9.81	10	6.95	
13:16	2	13.4	0.495	7.42	9.84	99	6.98	
13:29	3	12.2	0.487	8.28	9.91	119	7.12	

WELL SAMPLING

Sample ID: MW-18 Receiving Lab (Chain of Custody): LSL

General Notes: Metals (10/16/2009) (1426)



**APPENDIX F
GROUNDWATER ANALYTICAL DATA**

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010



Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO # DANA 01-07 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: **0905550**

Receive Date/Time: 04/14/09 11:03

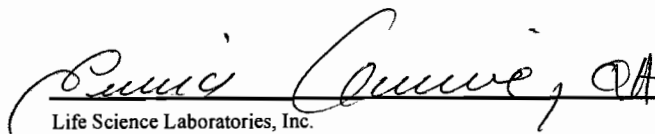
Project Received by: GS

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Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by:


Life Science Laboratories, Inc.

Date:

4/29/09

A copy of this report was sent to:

Page 1 of 5

Date Printed:

4/29/09

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R LSL Sample ID: 0905550-001
Location:
Sampled: 04/13/09 13:20 Sampled By: RC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
trans-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
Trichloroethene	<1	ug/l		4/23/09	BD
Vinyl chloride	<1	ug/l		4/23/09	BD
Surrogate (1,2-DCA-d4)	106	%R		4/23/09	BD
Surrogate (Tol-d8)	89	%R		4/23/09	BD
Surrogate (4-BFB)	100	%R		4/23/09	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1221	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1232	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1242	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1248	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1254	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1260	<0.1	ug/l	4/15/09	4/17/09	KIW
Surrogate (DCB)	57	%R	4/15/09	4/17/09	KIW

Sample ID: MW-13A LSL Sample ID: 0905550-002
Location:
Sampled: 04/13/09 12:25 Sampled By: RC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
trans-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
Trichloroethene	<1	ug/l		4/23/09	BD
Vinyl chloride	<1	ug/l		4/23/09	BD
Surrogate (1,2-DCA-d4)	107	%R		4/23/09	BD
Surrogate (Tol-d8)	91	%R		4/23/09	BD
Surrogate (4-BFB)	96	%R		4/23/09	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1221	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1232	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1242	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1248	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1254	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1260	<0.1	ug/l	4/15/09	4/17/09	KIW
Surrogate (DCB)	72	%R	4/15/09	4/17/09	KIW

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 LSL Sample ID: 0905550-003
Location:
Sampled: 04/13/09 11:30 Sampled By: RC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(I) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
trans-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
Trichloroethene	<1	ug/l		4/23/09	BD
Vinyl chloride	<1	ug/l		4/23/09	BD
Surrogate (1,2-DCA-d4)	110	%R		4/23/09	BD
Surrogate (Tol-d8)	89	%R		4/23/09	BD
Surrogate (4-BFB)	100	%R		4/23/09	BD
(I) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1221	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1232	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1242	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1248	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1254	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1260	<0.1	ug/l	4/15/09	4/17/09	KIW
Surrogate (DCB)	59	%R	4/15/09	4/17/09	KIW

Sample ID: MW-18 LSL Sample ID: 0905550-004
Location:
Sampled: 04/13/09 14:15 Sampled By: RC
Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(I) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
trans-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
Trichloroethene	<1	ug/l		4/23/09	BD
Vinyl chloride	15	ug/l		4/23/09	BD
Surrogate (1,2-DCA-d4)	108	%R		4/23/09	BD
Surrogate (Tol-d8)	89	%R		4/23/09	BD
Surrogate (4-BFB)	98	%R		4/23/09	BD
(I) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1221	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1232	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1242	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1248	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1254	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1260	<0.1	ug/l	4/15/09	4/17/09	KIW
Surrogate (DCB)	65	%R	4/15/09	4/17/09	KIW

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: 041309 - Duplicate

LSL Sample ID: 0905550-005

Location:

Sampled: 04/13/09 0:00

Sampled By: RC

Sample Matrix: QC, NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
trans-1,2-Dichloroethene	<1	ug/l		4/23/09	BD
Trichloroethene	<1	ug/l		4/23/09	BD
Vinyl chloride	15	ug/l		4/23/09	BD
Surrogate (1,2-DCA-d4)	109	%R		4/23/09	BD
Surrogate (Tol-d8)	88	%R		4/23/09	BD
Surrogate (4-BFB)	97	%R		4/23/09	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1221	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1232	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1242	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1248	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1254	<0.1	ug/l	4/15/09	4/17/09	KIW
Aroclor-1260	<0.1	ug/l	4/15/09	4/17/09	KIW
Surrogate (DCB)	52	%R	4/15/09	4/17/09	KIW

Sample ID: MW-13A Matrix Spike

LSL Sample ID: 0905550-006

Location:

Sampled: 04/13/09 12:25

Sampled By: RC

Sample Matrix: QC, NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	105	%R		4/23/09	BD
trans-1,2-Dichloroethene	109	%R		4/23/09	BD
Trichloroethene	84	%R		4/23/09	BD
Vinyl chloride	87	%R		4/23/09	BD
Surrogate (1,2-DCA-d4)	103	%R		4/23/09	BD
Surrogate (Tol-d8)	90	%R		4/23/09	BD
Surrogate (4-BFB)	94	%R		4/23/09	BD
(1) EPA 8082 PCB's					
Aroclor-1016			4/15/09	4/17/09	KIW
Aroclor-1221			4/15/09	4/17/09	KIW
Aroclor-1232			4/15/09	4/17/09	KIW
Aroclor-1242			4/15/09	4/17/09	KIW
Aroclor-1248	84	%R	4/15/09	4/17/09	KIW
Aroclor-1254			4/15/09	4/17/09	KIW
Aroclor-1260			4/15/09	4/17/09	KIW
Surrogate (DCB)	52	%R	4/15/09	4/17/09	KIW

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-13A Matrix Spike Duplicate LSL Sample ID: 0905550-007

Location:

Sampled: 04/13/09 12:25 Sampled By: RC

Sample Matrix: QC, NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8021B Volatiles(Partial List)by 8260			
cis-1,2-Dichloroethene	3	RPD	BD
trans-1,2-Dichloroethene	3	RPD	BD
Trichloroethene	2	RPD	BD
Vinyl chloride	1	RPD	BD
Surrogate (1,2-DCA-d4)	103	%R	BD
Surrogate (Tol-d8)	89	%R	BD
Surrogate (4-BFB)	92	%R	BD
(1) EPA 8082 PCB's			
Aroclor-1016		4/15/09 4/17/09	KIW
Aroclor-1221		4/15/09 4/17/09	KIW
Aroclor-1232		4/15/09 4/17/09	KIW
Aroclor-1242		4/15/09 4/17/09	KIW
Aroclor-1248	29	RPD	KIW
Aroclor-1254		4/15/09 4/17/09	KIW
Aroclor-1260		4/15/09 4/17/09	KIW
Surrogate (DCB)	102	%R	KIW

Sample ID: Trip Blank LSL Sample ID: 0905550-008

Location:

Sampled: 04/13/09 0:00 Sampled By:

Sample Matrix: TB

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8021B Volatiles(Partial List)by 8260			
cis-1,2-Dichloroethene	<1	ug/l	BD
trans-1,2-Dichloroethene	<1	ug/l	BD
Trichloroethene	<1	ug/l	BD
Vinyl chloride	<1	ug/l	BD
Surrogate (1,2-DCA-d4)	106	%R	BD
Surrogate (Tol-d8)	92	%R	BD
Surrogate (4-BFB)	93	%R	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:
ug/l = microgram per liter
ug/kg = microgram per kilogram
mg/l = milligram per liter
mg/kg = milligram per kilogram
%R = Percent Recovery



Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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E. Syracuse, NY 13057

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Fax: 585-728-2711

LSL Southern Tier Lab.
30 East Main St.
Cuba, NY 14727
Phone: 585-968-2640
Fax: 585-968-2640

0905550
SynapseRiskManage

Report Address:
Name: Roger Creighton
Company: Synapse
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapseriskmanagement.com

Client Project ID/Client Site ID
SPDES / 2200 Bleecker St, Utica, NY

Turnaround Time	
Normal 14 DAY ☒	Pre-Authorized Next Day* ☐ 2-Day* ☐ 3-Day* ☐ 7-Day* ☐
*Additional Charges may apply	
Date Needed or Special Instructions:	
Authorization or P.O. # DANA 01-07 T02	
LSL Project Number:	

Client's Sample Identifications	Sample Date	Sample Time	Type	Matrix	Preserv. Added	Containers		Analyses	Preserv Check	LSL ID#
			grab/comp			#	size/type			
MW-6R	4/13/09	13:20	Grab	W	HCl	2	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		001 AB
MW-6R		13:20	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-13A		12:25	Grab	W	HCl	2	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		002 AB
MW-13A		12:25	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-14		11:30	Grab	W	HCl	2	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		003 AB
MW-14		11:30	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-18		14:15	Grab	W	HCl	2	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		004 AB
MW-18		14:15	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
041309-Dup		—	Grab	W	HCl	2	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		005 AB
041309-Dup		—	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MS/MSD MW-13A		12:25	Grab	W	HCl	4	40 ml/voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		006 AB/007 AB
MS/MSD MW-13A		12:25	Grab	W	-	2	1-Liter Amber	PCBs by EPA Method 8082		006/007C
Trip Blank	4/13/09	11:00	—	W	HCl	2	40 ml/voa	VOC'S		008 AB
Custody Transfers									Date	Time
Sampled By: R. Creighton									4/14/09	11:05
Relinquished By: [Signature]										
Relinquished By: [Signature]										
Shipment Method:										
Received By: [Signature]										
Received By: [Signature]										
Rec'd for Lab By: [Signature]									04-11-09 11:33	IN
Received Intact: Y N									02L	

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***



RECEIVED
MAY 14 2009

Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO #DANA 001-07 T02

Laboratory Analysis Report For Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: 0905628

Receive Date/Time: 04/14/09 15:39

Project Received by: GS

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- (6) LSL Brittonfield Lab, East Syracuse, NY

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- (315) 437-0200

- NYS DOH ELAP #10248 PA DEP #68-2556
- NYS DOH ELAP #10900
- NYS DOH ELAP #11667
- NYS DOH ELAP #10760
- NYS DOH ELAP #11369
- NYS DOH ELAP #10155

This report was reviewed by:


Life Science Laboratories, Inc.

Date:

4/29/09

A copy of this report was sent to:

Page 1 of 3

Date Printed:

4/29/09

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID:	MW-6R	LSL Sample ID:		0905628-001	
Location:					
Sampled:	04/14/09 13:30	Sampled By: RC			
Sample Matrix:	NPW				
Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	0.012	mg/l	4/15/09	4/16/09	DP
Copper	0.036	mg/l	4/15/09	4/16/09	DP
Lead	0.024	mg/l	4/15/09	4/16/09	DP
Zinc	0.080	mg/l	4/15/09	4/16/09	DP

Sample ID:	MW-13A	LSL Sample ID:	0905628-002		
Location:					
Sampled:	04/14/09 13:00	Sampled By:	RC		
Sample Matrix:	NPW				
Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	0.011	mg/l	4/15/09	4/16/09	DP
Copper	<0.01	mg/l	4/15/09	4/16/09	DP
Lead	<0.01	mg/l	4/15/09	4/16/09	DP
Zinc	0.026	mg/l	4/15/09	4/16/09	DP

Sample ID:	MW-13A Matrix Spike			LSL Sample ID:	0905628-003		
Location:							
Sampled:	04/14/09 13:00	Sampled By: RC					
Sample Matrix:	QC, NPW						
Analytical Method				Prep	Analysis	Analyst	
Analyte			Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals							
Chromium			95	%R	4/15/09	4/16/09	DP
Copper			96	%R	4/15/09	4/16/09	DP
Lead			94	%R	4/15/09	4/16/09	DP
Zinc			95	%R	4/15/09	4/16/09	DP

Sample ID:	MW-13A Matrix Spike Duplicate			LSL Sample ID:	0905628-004			
Location:								
Sampled:	04/14/09 13:00	Sampled By: RC						
Sample Matrix:	QC, NPW							
Analytical Method				Prep	Analysis	Analyst		
Analyte				Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals								
Chromium				<1	RPD	4/15/09	4/16/09	DP
Copper				<1	RPD	4/15/09	4/16/09	DP
Lead				<1	RPD	4/15/09	4/16/09	DP
Zinc				<1	RPD	4/15/09	4/16/09	DP

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 LSL Sample ID: 0905628-005
Location:
Sampled: 04/14/09 12:45 Sampled By: RC
Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/15/09	4/16/09	DP
Copper	<0.01	mg/l	4/15/09	4/16/09	DP
Lead	<0.01	mg/l	4/15/09	4/16/09	DP
Zinc	0.016	mg/l	4/15/09	4/16/09	DP

Sample ID: MW-18 LSL Sample ID: 0905628-006
Location:
Sampled: 04/14/09 14:05 Sampled By: RC
Sample Matrix: NPW

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	0.016	mg/l	4/15/09	4/16/09	DP
Copper	0.015	mg/l	4/15/09	4/16/09	DP
Lead	0.015	mg/l	4/15/09	4/16/09	DP
Zinc	0.042	mg/l	4/15/09	4/16/09	DP

Sample ID: Duplicate 041409 LSL Sample ID: 0905628-007
Location:
Sampled: 04/14/09 0:00 Sampled By: RC
Sample Matrix: QC, NPW

Analytical Method			Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/15/09	4/16/09	DP
Copper	<0.01	mg/l	4/15/09	4/16/09	DP
Lead	<0.01	mg/l	4/15/09	4/16/09	DP
Zinc	0.024	mg/l	4/15/09	4/16/09	DP



LSL Central Lab.
5854 Butternut Drive
E. Syracuse, NY 13057
Phone: 315-445-1105
Fax: 315-445-1301

LSL North Lab.
131 St. Lawrence Ave.
Waddington, NY 13694
Phone: 315-388-4476
Fax: 315-388-4061

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CHAIN OF CUSTODY RECORD

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 585-728-3320
Fax: 585-728-2711

LSL Southern Tier Lab.
30 East Main St.
Cuba, NY 14727
Phone: 585-968-2640
Fax: 585-968-2640

0905628
SynapseRiskManage

Form 000-004-B/43

Report Address:

Name: Roger Creighton
Company: Synapse Risk Management, LLC
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcgreighton@synapseriskmanagement.com

Turnaround Time

Normal	Pre-Authorized			
14 DAY ☒	Next Day* 2-Day* 3-Day* 7-Day*	☐	☐	☐

*Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O.

DANA 001-07 T02

Client Project ID/Client Site ID

SPDES / 2200 Bleecker St, Utica, NY

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type	Matrix	Preserv. Added	Containers		Analyses	Preserv Check	LSL ID#
			grab/comp			#	size/type			
MW-6R	4/14/09	13:30	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		001
MW-13A MS/MSD		13:00	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		002 MS 003 MS 004 MS
MW-14		12:45	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		005
MW-18		14:05	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		006
Dup- 04/14/09			Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		007
MS/MSD			Grab	W	HNO ₃	2	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		

LSL use only:

Custody Transfers

Temp. of samples:
Containers this C-O-C:

	Date	Time
Sampled By: [Signature]	4/14/09	15:41
Relinquished By: [Signature]		
Relinquished By: [Signature]		
Shipment Method:		
Received By:		
Rec'd for Lab By: [Signature]		
Received Intact: Y (N)		

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***



Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO # DANA 01-09 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:
SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: 0919401

Receive Date/Time: 10/15/09 15:30

Project Received by: RD

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(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by:

Amir Say, QA
Life Science Laboratories, Inc.

Date:

10/29/09

A copy of this report was sent to:

Page 1 of 5

Date Printed: 10/28/09

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R LSL Sample ID: 0919401-001

Location:

Sampled: 10/15/09 13:20 Sampled By: RC

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1) EPA 8021B Volatiles(Partial List)by 8260						
cis-1,2-Dichloroethene		<1	ug/l		10/23/09	CRT
trans-1,2-Dichloroethene		<1	ug/l		10/23/09	CRT
Trichloroethene		<1	ug/l		10/23/09	CRT
Vinyl chloride		<1	ug/l		10/23/09	CRT
Surrogate (1,2-DCA-d4)		119	%R		10/23/09	CRT
Surrogate (Tol-d8)		101	%R		10/23/09	CRT
Surrogate (4-BFB)		89	%R		10/23/09	CRT
(1) EPA 8082 PCB's						
Aroclor-1016		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1221		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1232		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1242		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1248		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1254		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1260		<0.1	ug/l	10/19/09	10/23/09	KIW
Surrogate (DCB)		111	%R	10/19/09	10/23/09	KIW

Sample ID: MW-13A LSL Sample ID: 0919401-002

Location:

Sampled: 10/15/09 12:15 Sampled By: RC

Sample Matrix: NPW

Analytical Method		Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte						
(1) EPA 8021B Volatiles(Partial List)by 8260						
cis-1,2-Dichloroethene		<1	ug/l		10/23/09	CRT
trans-1,2-Dichloroethene		<1	ug/l		10/23/09	CRT
Trichloroethene		<1	ug/l		10/23/09	CRT
Vinyl chloride		<1	ug/l		10/23/09	CRT
Surrogate (1,2-DCA-d4)		122	%R		10/23/09	CRT
Surrogate (Tol-d8)		103	%R		10/23/09	CRT
Surrogate (4-BFB)		94	%R		10/23/09	CRT
(1) EPA 8082 PCB's						
Aroclor-1016		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1221		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1232		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1242		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1248		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1254		<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1260		<0.1	ug/l	10/19/09	10/23/09	KIW
Surrogate (DCB)		91	%R	10/19/09	10/23/09	KIW

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Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 LSL Sample ID: 0919401-003

Location:

Sampled: 10/15/09 11:25 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
trans-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
Trichloroethene	<1	ug/l		10/23/09	CRT
Vinyl chloride	<1	ug/l		10/23/09	CRT
Surrogate (1,2-DCA-d4)	122	%R		10/23/09	CRT
Surrogate (Tol-d8)	101	%R		10/23/09	CRT
Surrogate (4-BFB)	93	%R		10/23/09	CRT
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1221	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1232	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1242	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1248	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1254	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1260	<0.1	ug/l	10/19/09	10/23/09	KIW
Surrogate (DCB)	75	%R	10/19/09	10/23/09	KIW

Sample ID: MW-18 LSL Sample ID: 0919401-004

Location:

Sampled: 10/15/09 14:10 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
trans-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
Trichloroethene	<1	ug/l		10/23/09	CRT
Vinyl chloride	16	ug/l		10/23/09	CRT
Surrogate (1,2-DCA-d4)	122	%R		10/23/09	CRT
Surrogate (Tol-d8)	102	%R		10/23/09	CRT
Surrogate (4-BFB)	92	%R		10/23/09	CRT
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1221	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1232	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1242	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1248	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1254	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1260	<0.1	ug/l	10/19/09	10/23/09	KIW
Surrogate (DCB)	106	%R	10/19/09	10/23/09	KIW

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Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: 101509-Duplicate LSL Sample ID: 0919401-005

Location:

Sampled: 10/15/09 0:00 Sampled By: RC

Sample Matrix: QC, NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
trans-1,2-Dichloroethene	<1	ug/l		10/23/09	CRT
Trichloroethene	<1	ug/l		10/23/09	CRT
Vinyl chloride	17	ug/l		10/23/09	CRT
Surrogate (1,2-DCA-d4)	130	%R		10/23/09	CRT
Surrogate (Tol-d8)	101	%R		10/23/09	CRT
Surrogate (4-BFB)	96	%R		10/23/09	CRT
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1221	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1232	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1242	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1248	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1254	<0.1	ug/l	10/19/09	10/23/09	KIW
Aroclor-1260	<0.1	ug/l	10/19/09	10/23/09	KIW
Surrogate (DCB)	66	%R	10/19/09	10/23/09	KIW

Sample ID: MW-6R Matrix Spike LSL Sample ID: 0919401-006

Location:

Sampled: 10/15/09 0:00 Sampled By: RC

Sample Matrix: QC, NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	105	%R		10/23/09	CRT
trans-1,2-Dichloroethene	100	%R		10/23/09	CRT
Trichloroethene	81	%R		10/23/09	CRT
Vinyl chloride	107	%R		10/23/09	CRT
Surrogate (1,2-DCA-d4)	110	%R		10/23/09	CRT
Surrogate (Tol-d8)	92	%R		10/23/09	CRT
Surrogate (4-BFB)	93	%R		10/23/09	CRT
(1) EPA 8082 PCB's					
Aroclor-1016	128	%R	10/19/09	10/23/09	KIW
Aroclor-1221			10/19/09	10/23/09	KIW
Aroclor-1232			10/19/09	10/23/09	KIW
Aroclor-1242			10/19/09	10/23/09	KIW
Aroclor-1248			10/19/09	10/23/09	KIW
Aroclor-1254			10/19/09	10/23/09	KIW
Aroclor-1260			10/19/09	10/23/09	KIW
Surrogate (DCB)	92	%R	10/19/09	10/23/09	KIW

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Date Printed: 10/28/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R Matrix Spike Duplicate LSL Sample ID: 0919401-007
Location:
Sampled: 10/15/09 0:00 Sampled By: RC
Sample Matrix: QC, NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8021B Volatiles(Partial List)by 8260			
cis-1,2-Dichloroethene	2	RPD	CRT
trans-1,2-Dichloroethene	14	RPD	CRT
Trichloroethene	13	RPD	CRT
Vinyl chloride	42	RPD	CRT
Surrogate (1,2-DCA-d4)	167	%R	CRT
Surrogate (Tol-d8)	84	%R	CRT
Surrogate (4-BFB)	90	%R	CRT

Surrogate recoveries for this analysis were above established control limits. Sample results may be biased high.

(1) EPA 8082 PCB's					
Aroclor-1016	10	RPD	10/19/09	10/23/09	KIW
Aroclor-1221			10/19/09	10/23/09	KIW
Aroclor-1232			10/19/09	10/23/09	KIW
Aroclor-1242			10/19/09	10/23/09	KIW
Aroclor-1248			10/19/09	10/23/09	KIW
Aroclor-1254			10/19/09	10/23/09	KIW
Aroclor-1260			10/19/09	10/23/09	KIW
Surrogate (DCB)	120	%R	10/19/09	10/23/09	KIW

Sample ID: Trip Blank LSL Sample ID: 0919401-008
Location:
Sampled: 10/15/09 0:00 Sampled By:
Sample Matrix: TB

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8021B Volatiles(Partial List)by 8260			
cis-1,2-Dichloroethene	<1	ug/l	CRT
trans-1,2-Dichloroethene	<1	ug/l	CRT
Trichloroethene	<1	ug/l	CRT
Vinyl chloride	<1	ug/l	CRT
Surrogate (1,2-DCA-d4)	147	%R	CRT
Surrogate (Tol-d8)	88	%R	CRT
Surrogate (4-BFB)	99	%R	CRT

Surrogate recoveries for this analysis were above established control limits. Sample results may be biased high.



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

LSL

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E. Syracuse, NY 13057

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Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECO

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 685-728-3320
Fax: 685-728-2711

LSL South
30 East I
Cuba, NY
Phone: 6
Fax: 6

0919401

SynapseRiskManage

Report Address:

Name: Roger Creighton
Company: Synapse
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapsriskmanagement.com

Client Project ID/Client Site ID

SPDES / 2200 Bleeker St. Utica, NY

Turnaround Time

Normal 14 DAY ☒ Pre-Authorized Next Day* ☐ 3-Day* ☐ 7-Day* ☐ *Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O.

DANA 01-09 T02

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers		Analyses	Preserv Check	LSL ID#
						#	Size/type			
MW-6R	10/15/09	13:20	Grab	W	HCl	2	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		001 AB
MW-6R		13:20	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-13A		12:15	Grab	W	HCl	2	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		002 AB
MW-13A		12:15	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-14		11:25	Grab	W	HCl	2	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		003 AB
MW-14		11:25	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-18		14:10	Grab	W	HCl	2	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		004 AB
MW-18		14:10	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
10/509-Dup		—	Grab	W	HCl	2	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		005 AB
10/509-Dup		—	Grab	W	-	1	1-Liter Amber	PCBs by EPA Method 8082		C
MS/MSD 6R			Grab	W	HCl	4	40 ml/ vial	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		006 AB / 007 AB
MS/MSD 6R			Grab	W	-	2	1-Liter Amber	PCBs by EPA Method 8082		006 C / 007 C
Trip Blank										008 AB

LSL use only:

Custody Transfers

Temp. of samples:
Containers this C-O-C:

Sampled By: R. Creighton
Relinquished By: R. Creighton
Relinquished By: R. Creighton
Shipment Method:

Received By: 10/15/09 15:32
Received By:
Rec'd for Lab By: R. Creighton 10-15-09 14:30 RVD
Received Intact: Y N 3.20C

All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY

Semi-Annual GW-VOCs&PCBs

LSL COC



Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO # DANA 001-09 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:
SPDES / 2200 Bleecker St., Utica
LSL Project ID: 0919448
Receive Date/Time: 10/16/09 16:04
Project Received by: RD

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by:

Life Science Laboratories, Inc.

Date:

11/11/09

A copy of this report was sent to:

Page 1 of 3

Date Printed: 11/10/09

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R LSL Sample ID: 0919448-001

Location:

Sampled: 10/16/09 14:05 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/19/09	10/26/09	DP
Copper	<0.01	mg/l	10/19/09	10/26/09	DP
Lead	<0.01	mg/l	10/19/09	10/26/09	DP
Zinc	0.027	mg/l	10/19/09	10/26/09	DP

Sample ID: MW-13A LSL Sample ID: 0919448-002

Location:

Sampled: 10/16/09 13:55 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/19/09	10/26/09	DP
Copper	<0.01	mg/l	10/19/09	10/26/09	DP
Lead	<0.01	mg/l	10/19/09	10/26/09	DP
Zinc	<0.01	mg/l	10/19/09	10/26/09	DP

Sample ID: MW-14 LSL Sample ID: 0919448-003

Location:

Sampled: 10/16/09 13:40 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/19/09	10/26/09	DP
Copper	<0.01	mg/l	10/19/09	10/26/09	DP
Lead	<0.01	mg/l	10/19/09	10/26/09	DP
Zinc	<0.01	mg/l	10/19/09	10/26/09	DP

Sample ID: MW-18 LSL Sample ID: 0919448-004

Location:

Sampled: 10/16/09 14:15 Sampled By: RC

Sample Matrix: NPW

Analytical Method	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
Analyte					
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/19/09	10/26/09	DP
Copper	<0.01	mg/l	10/19/09	10/26/09	DP
Lead	<0.01	mg/l	10/19/09	10/26/09	DP
Zinc	<0.01	mg/l	10/19/09	10/26/09	DP

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Page 2 of 3

Date Printed: 11/10/09

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID:	Duplicate		LSL Sample ID:	0919448-005	
Location:					
Sampled:	10/16/09 0:00	Sampled By: RC			
Sample Matrix:	QC, NPW				
Analytical Method			Prep	Analysis	Analyst
Analyte			Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium			0.012	mg/l	DP
Copper			<0.01	mg/l	DP
Lead			0.010	mg/l	DP
Zinc			0.017	mg/l	DP

Sample ID:	MW-6R Matrix Spike		LSL Sample ID:	0919448-006	
Location:					
Sampled:	10/16/09 14:05	Sampled By: RC			
Sample Matrix:	QC, NPW				
Analytical Method			Prep	Analysis	Analyst
Analyte			Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium			100	%R	10/19/09 10/26/09 DP
Copper			100	%R	10/19/09 10/26/09 DP
Lead			98	%R	10/19/09 10/26/09 DP
Zinc			97	%R	10/19/09 10/26/09 DP

Sample ID:	MW-6R Matrix Spike Duplicate		LSL Sample ID:	0919448-007	
Location:					
Sampled:	10/16/09 14:05	Sampled By: RC			
Sample Matrix:	QC, NPW				
Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<1	RPD	10/19/09	10/26/09	DP
Copper	<1	RPD	10/19/09	10/26/09	DP
Lead	<1	RPD	10/19/09	10/26/09	DP
Zinc	<1	RPD	10/19/09	10/26/09	DP



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0919448
SynapseRiskManage

585-554-6743

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Report Address:

Name: Roger Creighton
Company: Synapse Risk Management, LLC
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapsriskmanagement.com

Client Project ID/Client Site ID

SPDES / 2200 Bleecker St, Utica, NY

Turnaround Time

Normal	Pre-Authorized		*Additional Charges may apply
14 DAY ☒	Next Day* ☐	3-Day* ☐	
	2-Day* ☐	7-Day* ☐	

Date Needed or Special Instructions:**Authorization or P.O. #**

DANA 001-09 T02

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type	Matrix	Preserv. Added	Containers		Analyses	Preserv Check	LSL ID#
			grab/comp			#	size/type			
MW-6R	10/16/09	1405	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		001
MW-13A		1355	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		002
MW-14		1340	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		003
MW-18		1415	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		004
Dup-1		—	Grab	W	HNO ₃	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		005
MS/MSD		1405	Grab	W	HNO ₃	2	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		006 ms
										007 ms

LSL use only:

Custody Transfers

Date Time

Sampled By: R. Creighton

Received By:

10/16/09 16:06

Relinquished By:

Received By:

Relinquished By:

Rec'd for Lab By: R. Dember

10-16-09

16:04 RCD

Shipment Method:

Received Intact: Y N

0.3°C on ice

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

Semi-AnnualGW-Metals

LSL COC

APPENDIX G
GROUNDWATER TREATMENT SYSTEM INSPECTION LOGS

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010

1/6/09

Weather ~ 20°C snowing
onsite @ 10:00 am

- check system = OK
- sump pump on

- EQ tank @ 1400 gallons

- Pumped MH-1 by hand
- took sample at 10:15 am
- MH-1 pH = 7.63

- Air stripper on at 10:18 am
- Pumped EQ tank pump by hand
at 10:25 am

- took sample at 10:26 am
- effluent pH = 8.52

- Took MH-2 sample at 10:40 am
- MH-2 pH = 7.46

- Pressure of P-1 filter ≈ 22 psi
P-2 filter ≈ 18 psi

- Brass Flow Meter = 5400, 800 gallons

D.B.

1/14/09

Weather ~ 5°C

Onsite @ 8:45 am

- Check system: OK
- sump pump on?

- EQ tank @ 1400 gallons

- Air stripper on @ 8:48 am

- Pumped EQ tank pump by
hand to collect effluent
sample at 8:55 am

- effluent pH = 8.75

(P1 ≈ 24 psi P2 ≈ 18 psi)

- changed P-1 filter

- Brass Flow Meter =
5451, 400 gallons

D.B.

1/21/09

Weather ~ 20°C Sunny
Onsite @ 8:45 am

- check system = O.K.
- MH-2 pump on
- sump pump on
- EQ tank @ 1800 gallons
- Turned blower on @ 8:45 am
- Pumped ~~TANK~~ by hand @ 8:50 am
- Took effluent sample at 8:55
- pH effluent = 8.65
- Brass Flow meter = 5,499,900
- changed P1 & P2 filters
- running at 18 + 16 psi respectively.

D.B.

1/26/09

Weather ~ 15°C sunny
Onsite @ 12:45 pm

- System in alarm
- MH-1 High sump level
- MH-2 High sump level
- EQ tank high level
- alarms all on
- EQ tank @ 2,400 gallons
- Hand pumped EQ tank pump
- Bag filter high pressure alarm detected - changed P1 & P2 filters and continued to operate system.
- Bag filter high alarm again - changed it
- MH-1 Alarm off @ 3:00 pm
- Took effluent sample at 3:15 pm
- pH = 8.75
- changed p-1 / ~~1~~ P1 ≈ 18 psi
- P2 ≈ 16 psi

1/26/09 - continued

- Upon arrival on site, I noticed a white 1/2" diameter 15' section of PVC pipe lying inside the gate by E0 tank. Also the fence had been banded and slightly distorted. The fiberglass ladder used to inspect the E0 tank was missing.

- Spoke to John Wissing Dodge graphics owner - Dodge graphics is closing and the power will be turned off in a couple of days. National Grid contact:

- Spoke to laborer for D.G. and he said Macky Construction came in a truck valuable items last week.

1/26/09

Brass Flow Meter = 5517,600

Control Panel

MH-1 = 2165155

MA-2 = 1219253

Sump = 1124

AS Effluent = 5984,143

DB

2/9/09 Chicago Pneumatic 19427

Task: Rewire system to generator/re-start system

Arrive: 0900

Depart:

weather: Partly cloudy, ~30°F

Onsite Personnel: Sarah Burke (SKB)

0900. SKB onsite. Paragon onsite plowing path to back door. SKB explain to Alfie's Electric (AE) [2 men] Saw for the day.

0915. AE begin to install new line for the generator

1030. AE done running new line to generator.

Continue to have system set up to run off power connected to building.

1045. Begin to re-start system. Pump into EQ tank.

AE off-site.

1115. Start A/S

1120. Shut down system to change bag filters

1130. Re-start system

1200. Flow in A/S ~112 GPM

2/9/09 Chicago Pneumatic 19427

1325. Change bag filter in (first in line)

1300. Flow into A/S very slow. Clean strainers going to bag filters & check each bag filter

Change second bag filter

1305. Restart A/S blower & EQ Pump. Strainer was clogged. ~105 GPM to A/S after restart.

1320. Pumps #1 & 2 Kick on to refill EQ tank

1335. Change P1 Bag Filter

Clean P2 strainer

Check P2 bag filter - ok

1340. Restart EQ pump. System running ~100 GPM

1350. Change P1 Bag Filter

1410. Change P1 Bag Filter

1415. Start EQ Pump

1500. M11-2 not jumping water. Went to manhole to investigate. Coupling on pipe broke & pipe came apart. Will need to bring in a vac truck to lower water level in the pipe and then can repair the pipe.

Will run only M11-1 overnight

Call Luke McKenney & Danielle Berardi & leave message.

2/9/09 Chicago Pneumatic 19427

1315: clean out PI strainer

1545: System running w/ MH-1 running only.

Paragon & SKB offsite

Sarah Burke

2/10/09 Chicago Pneumatic 19427

Task: Run electric line, repair MH-2,
re-start system

Onsite Personnel: Sarah Burke (SKB)

Weather: 25°F / sleet

Arrive: 0930

Depart: 1600

0930: SKB onsite Alfie's Electric (AE)
already onsite to run 600' electric
line and piping.

System down upon arrival on bag
filter high pressure

0945: Change bag filter for PI

1000: Restart System. Flow to A/S ~ 80 GPM

1100: AE offsite

1200: Paragon onsite to fix MH-2

1210: Clean strainer for pump 6B

1230: Inspect MH-2. Approx. 4' water in

vault, covering piping. Need to vac

out vault to uncover piping & repair

2/10/09 Chicago Pneumatic 19427

1315: There was a leak in the MH-2 piping when it comes into bldg. Paragon works on reglueing piping to fix leak.

1415: Leak is fixed. Paragon will now flush out line for MH-2 from bldg (where it enters) to manhole. Will add lime-away and let it sit overnight. Paragon will bring vac truck back tomorrow to vac out lines. Will fix MH-2 piping tomorrow (2/11/09) and run only MH-1 overnight.

SKB call Luke McKenney to update.

1420: Begin to vac out MH-2.

1500: Finish vac'ing MH-2.

Discharge water into MH-1. Run system.

1530: Put Ferrico on MH-2 and check valve.

Flush line for MH-2 and add limeaway. Will let sit overnight.

1630: Change P1 & P2 bag filters. Clean strainers.

1640: Paragon & SKB off-site.

System running w/ MH-1 only.

David Burke

2/11/09

Onsite: Danielle Benati (DSB)

Weather: ~45° clear

Arrive @ 8:00am

- Paragon Environmental onsite (3 men team) / vac truck.

0830 System in alarm due to high bag filter pressure.

- change P1 & P2 bag filters and restart system (only MH-1 running)

0930 - high bag filter pressure - changed P1 filter.

0830 - Alfie's electric onsite to begin running 600' electric line and piping.

0850 Paragon turned the back flow valve around on the MH-2 pipe that leads outside to MH-2 - they will pump out pipe into manhole then use vac truck.

0900 - used vac truck to pump out MH-2 - vac truck pumped out water from top then pumped it back into MH-1 for treatment by system

- will pump slurry ^{from pipes} ~~at bottom~~ into drums

000 started pumping line away / water back through pipes to MH-2 and directly into vac truck
- used vac truck to suck the rest out of pipe directly into vac truck.

1023 Paragon used PVC primer & plastic pipe cement to fix MH-2 pipe

11:00 Paragon filled drums with the contents they sucked from MH-2 pipes
- had dark brown color and milky consistency (2 drums total)

1115 started pumping MH-2 to system

2/11/09

1130 - Luke McKenney onsite.

14:00 - changing bay filters throughout the day when high alarm goes on.

- installed temporary lock on door to access Dodge Graphics building.

- cleaned strainers

- changed P1 & P2 filters

- System running completely operational w/ MH-1 & MH-2 both operational

1530 Paragon / Afi's electric / DSB off site + locked back door & gate

~~1 Daniel Bantz~~

2/12/09

Weather @ 45° Buggy

Onsite at 8:00 am

Danielle Benati

8:00 AM - system in alarm, high
bag filter pressure
- change P1 filter, system
running normally

8:30 - Alfie's electric on site
- Also notice valve from
EQ tank to pumps had
been broken (the handle)
- must have happened yesterday

1130 System cycled @ 2 times
normally

1135 - collected MH-1 sample
pH = 7.70

1142 - collected MH-2 sample
pH = 7.70

1155 - pumped by hand, collected
effluent pH = 8.98

2/12/09

1300 - High bag filter pressure
alarm. Changed P-1 filter

1400 - Alfie electric off site
will return tomorrow morning
estimated length of piping
per Alfie is 520'

1405 - EQ tank high alarm, GB pump
pumping with no bag filter
pressure. Call Luke McKinney
and diagnose problem as
clogged strainer. Shut off
pump GB switch - forcing
GA to be the sole pump
for now - until strainer can
be cleaned.

1445 - Pump GA did not switch
on when tank (EQ) got high
(2300 gallons)
- Pumps must be hardwired
to alternate

- pumped tank down by hand
turned on ^{MAN} both pumps GA
& GB ^{MAN}

1530 changed P1 & P2 filters

- off site / system running
normally

DB

2/13/09

weather @ 20°C Sunny

Onsite at 0800

Personnel: Danielle Benati +
Luke Mckenney

0830 - Changed both strainers and
cleaned them out. Rotated
them between P1 & P2.

0845 - Alfie Electric on site

0915 - Pump 6B still not
operating correctly - low/no
filter bag pressure when on.

0930 - Luke Mckenney called
Paragon Environmental -
scheduled to come to
site and fix pump on
Monday (2/16/09)

1000 - Luke Mckenney off site

1005 - Ran system with 6A (pump)
pump 6A - not working
properly - no filter pressure

2/13/09

1030 - Luke Mckenney back on
site - tightened all strainer
valves

1035 - System running properly

1045 - Alfie electric off site

1210 - Man from graphics equipment
company stopped by (John)
to take pictures of graphics
equipment, said John Smith
sent him. I didn't allow
him to come in - directed
him to Charlie (Property
Manager for Coolidge
Properties).

1215 - Alfie electric back on site
said they will be pulling
wire on Monday.

1225 - System running/cycling normally
with Pump 6A.

1440 - Alfie's electric off site

2/12/09

1445 - change both P1 & P2 filters
- hand pumped to check and both pumps were working normally.

1300 - DB offsite
- Brass flow meters
5617200 gal.

Turned On Sarah

2/16/09

Task: Pull Electric lines

Onsite Personnel: Sarah Burke (SKB)

Weather: Sunny / ~30°F

Onsite: 0830

Offsite: 1330

0830: SKB onsite. System running upon arrival

Albie's Electric (AE) already onsite to pull electric line (3 workers)

1230: AE done running piping and electric. Just need to switch over from Nat'l Grid. SKB call Luke McKenney to update. Luke McKenney wants everything switched over. AE will be back onsite tomorrow (2/17/09) to switch over electric.

1300: AE offsite.

Runtimes

Pump 1: 370 hrs

Pump 2: 478.5 hrs

Pump 3: 6041.1 hrs

Pump 4: 3646.8 hrs

Sump Pump: 2015.5 hrs

2/16/09

Control Panel

MH-1: 2,199,790 gal

MH-2: 1,087,218 gal

Brass Flow Meter: ^(SKB)
~~5651141~~ gal
5651141

1315: Effluent pump and AIS kick on

P1 bag filter pressure: 18 psi

P2 bag filter pressure: 10 psi

1330: SKB offsite

Sarah Burke

2/17/09

Task: Complete wiring new electric line

Onsite Personnel: Sarah Burke (SKB)

Weather: Sunny / ~20°F

Arrive: 0800

Depart: 1030

0800: SKB onsite. System on upon arrival.

Alfie's Electric (AE) onsite

AE begin to wire system to switch
it over from Nat'l Grid

0910: Shut off system & power to system
for electric switchover

1000: AE done switching over electric.

line wired for generator pulled inside,
but still set up if needed at some
point.

SKB turn system on

No system alarms on. Pump 2 & Pump 4
work when turned on manual

Totalizer: 5660000

1030: SKB lock gate & door - offsite

Sarah Burke

2/18/09

Weather: 20° with flurries

Onsite: Danielle Benati - responding
to system in alarm

Arrive 2:00 pm

- System in alarm

- MH-1 High sump alarm

- MH-2 High sump alarm

- EQ tank high level alarm

- Tried to pump / turn on Airstripper
by hand but it would not
go on.

- called L. McKenney to trouble shoot

- System still offline

- DSB offsite at 3:00 pm

~~Danielle Benati~~

2/19/09

Weather: 15° snowing

Onsite: Danielle Benati

Arrive: 8:45 am

- System still offline

- Switch control panel power
off - nothing happens

- blower/air stripper is not
receiving power while everything
else is.

- Alfie electric on route to
check.

1045 Alfie on site to turn off
power

- turned off power to disconnect
on bus line

- control panel still on.

- had to shut off second
disconnect to turn off
all power

1115 Restarted system / turned on
all power / blower and system
running.

1130 Alfie offsite.

2/19/09

1130 - EQ tank high alarm cleared

1200 - changed P1 & P2 filters
- System resumed operating normally

1230 - No bag filter pressure and brass flow meter spinning very slowly
- decide strainers need to be cleaned
(black grit in P1-filter changed again)

1300 - turn EQ tank valve closed, can't open again. Call Paragon to meet onsite tomorrow (small drip from valve)

1345 - DB offsite, system offline

Danielle Benati

2/20/09

Weather ~ 10° Snowing
Onsite: Danielle Benati
Arrive: 7:00 AM

7:00 - Paragon arrived, tightened fitting to EQ tank and opened valve.

Paragon also cleaned strainers
715 - System running normally after Paragon bled air from bag filters

800 - System running normally
MH-1 high alarm off.

830 - I calibrated the pH meter

840 - MH-2 High Alarm off -
System running normally

850 - changed P-1 bag filter

Brass flow meter = 5674100

2/20/09

Control Panel Readings

MH-1: 2214411

MH-2: 1296171

Sump: 1175

Effluent: 6163916

8:56 - turned air stripper on
by hand

9:02 - pumped by hand. 6A big filter

- Took effluent sample
at 9:05

- Effluent pH = 8.19

P-1 filter running ~ 15 psi

P-2 filter running ~ 12 psi

915 System operating normally

~~DSB offsite~~

915 DSB noticed
Overload tripped
in MS panel
Alarm

~~Daniel Gust~~

915 - DSB back onsite to look
up and noticed alarm.

- checked circuits, made
sure all were ok.

- checked all switches, all
operational except MH-2
pump 4.

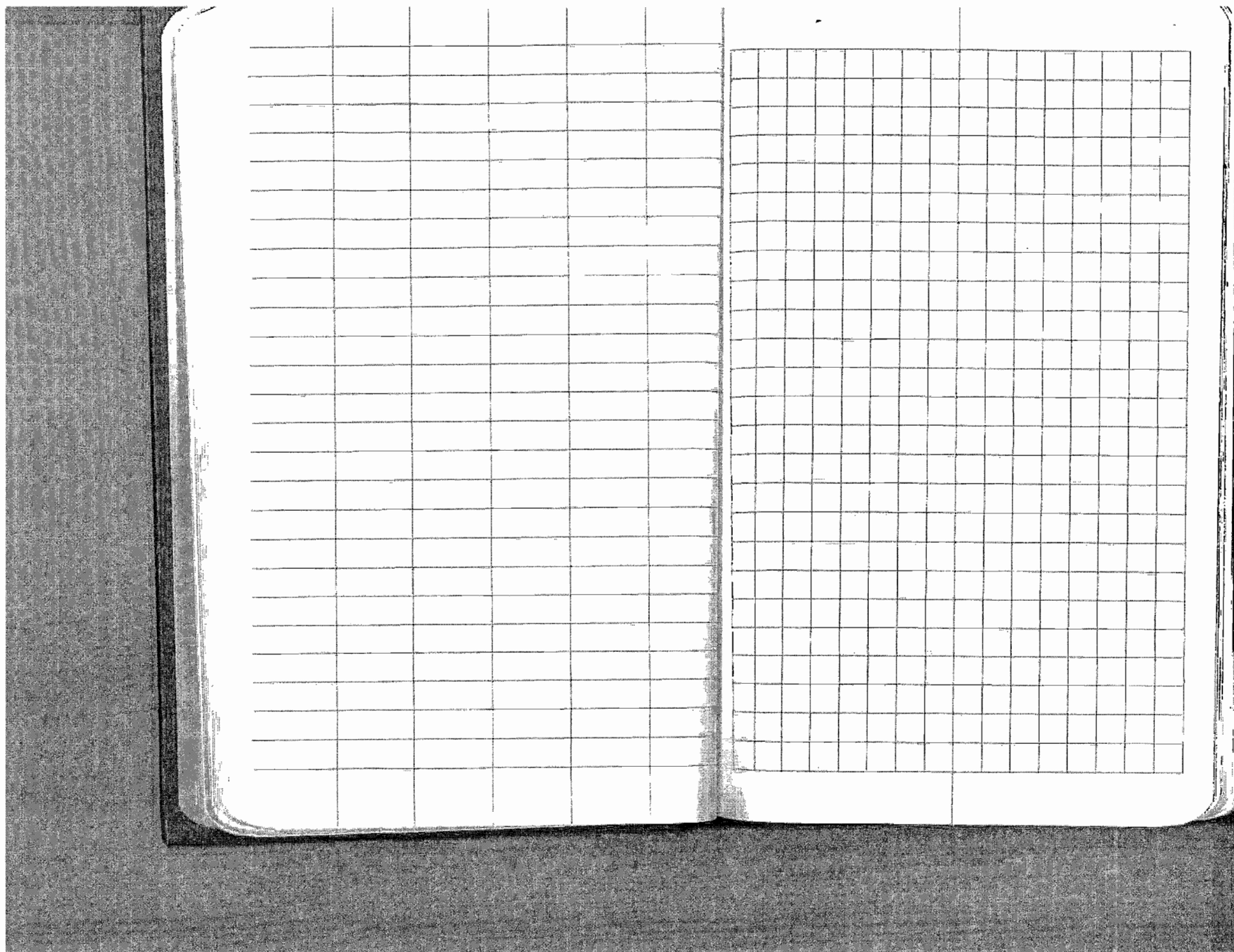
- hand pumped MW-1 by
hand, it triggered auto
air stripper start & 6A
pump. Problem must be
with MH-2 pump.

1000 - Spoke w/ L. McTerney
since system was running
we will leave it on over
the weekend and fix
problem on Monday.

1010 - reset MH-2 breaker system NORMAL

1015 - DSB officially offsite.

~~Daniel Gust~~



2/24/09

Weather ~ 10° Sunny

8:30 am onsite for weekly
sampling

- checked system - OK
- EQ tank @ 1900 gallons
- changed P-1 filter
- blower on at 843 - had to
turn on by hand
- sampled effluent at 8:50 am
- effluent pH = 8.37
- P1 filter ~ 18 psi
- P2 filter ~ 15 psi
- Brass Flow meter =
5,709,400 gallons
- Control Panel
MH-1: 2227742
MH-2: 1319248
SUMP: 1175
Effluent: 6204998
- offsite: 9:00 am

~~Shirley Bortz~~

3/3/09

Weather ~ 20° Sunny

Onsite at 2:50 pm for
monthly sampling

- checked system - OK
- EQ tank @ 1800 gallons
- changed P-1 and P-2 filters
- sampled MH-2 at 3:15 pm
MH2 pH = 7.09
- blower on at 3:18 pm
- hand ^{sampler}pumped MH-1 at 3:20 pm
- MH-1 pH = 7.27
- hand pumped EQ tank (GA) at
3:25 pm and sampled
- pH effluent = 8.43
- P1 filter ~ 18 psi P2 filter ~ 16 psi
- brass flow meter = 5,773,500 gallons
- Control PANEL: MH-1 - 2259288
MH-2 - 1357628
Sump - 1175
Effluent 6284446
- offsite 3:40 pm

~~Shirley Bortz~~

3/5/09

Weather 40° Sunny

3:50 pm onsite. in response to
system in alarm

- MH-1 High sump alarm on
- EQ Tank high alarm on
- Air stripper blower on
- EQ tank @ 2,400 gallons
- Hand pumped 6A at 3:50 pm
- Reset system
 - EQ tank high alarm off.
 - Stopped hand pumping → tank at 2200 gallons and pumps did not kick on automatically
 - P1 filter pressure @ 18 psi - 20
 - P2 filter pressure @ 16 psi
 - tried to bleed air - no air came from bag filters.
 - Turned power to air stripper off, then on.

3/5/09

- This seemed to work, and pump 6A turned on automatically
- MH-1 High Alarm off at 4:08 pm
- System finished cycling at 4:40 pm
- changed P-1 filter while EQ tank was filling back up. P1 ~ 18 psi
- Waited for system to turn back on automatically
- when EQ tank was full, blower turned on, then pump 6B
- System functioning normally
- D.B. offsite 5:00 pm

Don't touch

3/9/09

Chicago Pneumatic

Task: Re-start system.

OnSite Personnel: Sarah Burke (SKB)

Weather: 35°F / rain

Arrive: 1130

Depart:

11:30: SKB onsite. System down

Alarms: Manhole 1 High Sump

Manhole 2 High Sump

Bag filters high pressure.

Totalizer 5814086

Pump 1: 3780 hrs

Pump 2: 4920 hrs

Pump 3: 6041 hrs

Pump 4: 81306 hrs

Sump: 20156 hrs

1145: SKB change P1 & P2 bag filters.

1200: Run Effluent pump 6A by hand
to empty EQ tank

P1 pressure: 13 ^{SKB} 30 PSI

P2 pressure: 10 PSI

3/9/09 Chicago Pneumatic

1215: Re-Turn off EQ pump 6A & reset

* system. High Sump level alarm off
Hand pump MH1

1220: Reset system. MH-1 and MH-2
pumps turn on automatically.

High MH-1 & MH-2 sump alarms still on

1230: EQ pump 6B turns on automatically

1300: P1 down on high pressure.

SKB change bag filter

1345: Restart system. Manually fill EQ
tank w/ MH-1 & MH-2. At high level,
eff pumps did not turn on
automatically.

1400: Run A/S blower & eff pump 6B
by hand to drain EQ tank

1415: EQ Tank low sump level light on
MH-1 & MH-2 pumps do not turn on
automatically. Manually turn on
MH-1 & MH-2 to fill EQ tank

1430: EQ tank fills to high alarm. MH-1
and MH-2 pumps do not turn on
automatically.

3/9/09 Chicago Pneumatic

1445: Manually turn on A/S blower & drain tank using effluent pump 6B

1455: EQ tank low sump alarm goes

off. MH-1 & MH-2 pumps do not turn

on. Manually pump MH-1 & MH-2

1515: Fill EQ tank. Blower and effluent

pumps do not turn on.

SKB leave system down

SKB offsite

Sketch Burke

3/10/09

Task: Restart System

Onsite: Danielle Benesh

Weather ~ 30° Cloudy

Onsite @ 8:30am

- 8:30 pump EQ tank by hand

- tank at 2200 gallons

- MH-1 High Alarm

- MH-2 High Alarm

- EQ high tank alarm

- floor sump high alarm.

- 8:45 EQ tank high alarm off

- 9:15 - plugged ^{floor} sump pump into working gfi receptacle,

- sump pump high alarm off

- MH-1 / MH-2 pumps started pumping

- Pump 6A turned on automatically

945 - changed p-1 filter

3/10/09

1205 - sampled effluent
pH-effluent = 7.92

1215 - changed P1 filter because
it was almost to 30 psi
- back to 19 psi after
changed out.

1240 - MH-1 Alarm off/clear
MH-2 Alarm off/clear

P1 filter ~ 19 psi
P2 filter ~ 16 psi

Brass Flow Meter =
5,843,500 gallons

Control Panel
MH-1: 2301412
MH-2: 1384356
Sump: 1175
Effluent: 6,361,319

- System Running Normally!

1250 DB offsite

~~Denise Berach~~

3/19/09

Weather 40° Sunny

Onsite for weekly sampling. Danielle Berach

- System in alarm
MH-1 high alarm
MH-2 high alarm
air stripper low air pressure alarm

- EQ tank @ 1900 gallons

- I manually pumped 6A pump
and saw filter pressure was
high

- changed P-1 filter.
- Turned off all power to system

- Turned power back on, manually
pumped 6A pump again
- Stopped and reset system,
+ air-stripper low alarm off

- 1030 MH-2 tripped in MS panel.

- reset the breaker

- 1031 MH-2 tripped again.

- waited 10 minutes before resetting MH-2: Since pump 4 is only pump working in MH-2 it works alot. Need to replace.
- MH-2 pump 4 tripped again after 1 minute.
- Since pump 6A had been running all day - I manually pumped down the tank w/ pump 6B
- changed P1-filter again (12:00pm)
- I noticed pump 6A pumps about 112 gpm while pump 6B pumps about 150 gpm.
- Sampled effluent at 1:20pm
 - pH effluent: 8.16
- MH-2 pump 4 trips everytime I reset it.
- MH-1 high alarm off 1:45pm
- P1 ~ 19 psi, P2 ~ 18 psi
- MH-2 High alarm still on, pump will not stay on. Offsite 1:50pm

W. Smith
Bent

3/26/09

Weather 40° cloudy
Onsite for weekly sampling

- 9:00AM System running normally, MH-2 High alarm - reset button - MH-2 alarm off and no alarms.
- EA tank @ 1800 gallons
- Turned on (by hand) air stripper at 9:05
- Hand pumped (6A pump) and sampled effluent at 9:15am
→ effluent pH = 8.48
- P1 bag filter ~ 24 psi
- P2 bag filter ~ 16 psi
- changed P1 filter.
- Brass Flow meter = 600,300 gallons

Control panel:

MH1: 2385289

MH2: 1464284

Effluent: 6545463

Sump: 1175

- 9:30 AM system ran normally
(automatically)

- P1 filter at 18 psi

- System normal, offsite
at 9:45 am

~~Sanitary Boat~~

4/1/09

Weather ~ 40° Cloudy

Onsite for monthly sampling

- 9:00 AM onsite - system in alarm

- MH-1 High Alarm

- MH-2 High Alarm

- EQ Tank High Alarm

- blower on.

- EQ tank @ 2400 gallons

- hand pumped EQ tank
(EQ tank high alarm off)

- when tank re-filled / the pumps
did not kick on.

reset

- I restarted power to system,
then pump 6A turned on.

- Sampled MH-1 at 9:20 am

- pH MH-1 = 7.30

- Sampled MH-2 at 9:50 AM

- pH MH-2 = 6.92

- changed p-1 filter at 10:00 AM

- P1 Filter ~ 20psi
- P2 filter ~ 19 psi

- 11:30AM Bag filter pressure @ 30 psi
- changed P1 & P2 filters

- 12:00pm filters at 18psi P1 and P2 = 16 psi

- 12:05 pm MA-1 and MA-2 High Alarm off

- Took effluent sample at 12:15pm
pH effluent = 8.41

Brass Flow Meter = 6042700

Control Panel: MH1: 2407048

MH2: 1484911

SUMP: 1175

Effluent: 6593887

System Normal / offsite 12:40pm

4/8/09

Weather ~ 20° Snow flurries
Onsite for weekly sampling

- 10:00AM onsite -

- System in alarm
- MH-1 High alarm
- MH-2 High alarm
- EQ tank high alarm (2,400gal)

- Hand pumped EQ tank
- EQ tank high alarm off

- changed phone jack - still no dial-tone

- changed P-1 filter at 11:30am

- sampled effluent at 1:15 pm
pH effluent = 8.02

- MH-2 high alarm cleared at 12:30 pm

- I noticed at 1:30pm flow on control panel was 0 gpm for

...FI even though both pumps
for MH-1 were on.

- changed P1 & P2 at 1:30 pm
now running at 18 & 16 psi
respectively

- MH-2 cleared at 3:00 pm

Control Panel

MH-1: 2407449 - no change

MH-2: 1489644

Sump: 117

Effluent: 6627495

Brass Flow meter - 6071200

- System running normally

- offsite 3:15 pm

San Jose

4/14/09

onsite for weekly sampling
Weather = 40° Sunny
Onsite @ 8:00 AM

- System check - ok

- no alarms

- EQ tank @ 1200 gallons

- hand pumped MH-2 / MH-1
for a couple minutes
to fill up EQ tank.

- Started air stripper at
8:15 AM

- Sampled effluent at 8:25 AM
pH effluent = 8.49

- check bag filter pressure
P1 = 20 psi
P2 = 16 psi - ok until
next week.

Control panel

MH1 = 2407449 - no change

MH2 = 1530771

SV-mp = 1175

effluent = 6703646

Brass Flow meter = 6138200

- System running normally
offsite at 8:45 AM

Danielle Benati

4/22/09

Weather: 50° Sunny

Onsite: Danielle Benati for
weekly sampling at 9:15 AM

- System in alarm

- MH-1 High Alarm

- MH-2 High Alarm

- Air Stripper low air pressure
alarm

- Hand pumped GB Pump into airstripper

- Airstripper low air pressure alarm
off at 9:30

- Changed P1 bag filter due to high
pressure.

- MH-2 High alarm off at 12:35 pm

- Sampled effluent at 12:45 pm
effluent pH = 8.36

- changed P1 & P2 bag filters at
12:50 pm

- Manhole 1 alarm off at 1:00 PM

- P1 filter ~ 18 psi, P2 filter ~ 16 psi

- System running normally

- Brass Flow Meter = 6159300

- Control Panel

MH-1: 2425071

MH-2: 1535436

Effluent: 6728268 /

Sump: 1175

- System running normally
off site at 1:45 PM

~~Danielle Benati~~

4/24/09

Weather: 60° Sunny

Danielle Benati onsite to change
strainers

- 2:00 PM - System running normally

- ECD tank ~ 1500 gallons

- changed strainer 6A - very
badly clogged.

- Tested system, pump 6A pumping
at full capacity again ~ 145 gpm
(bled air from system)

- Also pump 6B pumping at ~ 145 gpm
(did not change strainer)
(could not open)

- checked bag filter pressure

P1 ~ 20 psi

P2 ~ 16 psi

✓ o.k. do not
need to be
changed.

- System running normally

- off site at 2:40 PM

~~Danielle Benati~~

4/30/09

Weather: 50° Cloudy/Rainy

Onsite at 12:00pm with Mike Redmond from Teleco Systems to inspect/repair phone line

- Also Danielle Benati to perform weekly sampling

12:00 - Mike Redmond inspects phone condition. Determines there is a short in the phone line.
- needs to find short

- System - OK - NO Alarms,

- EQ tank ~ 1000 gallons

- changed P1 and P2 filters at 12:30pm

- Sampled effluent at 2:20pm
(pumped by hand)
pH effluent = 8.37

- P1 and P2 filters running at 18psi and 16psi respectively.

4/30/09

Control Panel

MH-1: 2448649

MH-2: 1586458

Sump: 1175

Effluent: 6804319

Brass Flow meter: 6,224,700

2:34pm - Teleco/Mike Redmond went to chase phone line on other side of building.

3:24pm Teleco Mike Redmond repaired the phone line, replaced the jack and tested the modem. All systems back online.

- The original phone line had been damaged somewhere in building. Mike switched the cables.

- Offsite at 3:30pm

Danielle Benati

5/6/09

Weather: 50° sunny / cloudy

Onsite: Danielle Berati to perform
weekly / monthly sampling (11:00AM)

- System check - ok, system
running normally

- EQ tank @ 1900 gallons

- changed P1 filter

- Hand pumped MH-1, Sampled at
11:15AM - pH MH-1 = 7.36

- System turned on at 11:18AM,
sampled effluent at 11:22AM
pH = 8.58

- filters P1 and P2 running
at 18psi and 16psi respectively

- sampled MH-2 at 11:30AM
pH MH-2 = 7.31

5/6/09

Control Panel

MH-1: 2464270

MH-2: 1608662

Sump: 1175

Effluent: 6853282

Brass Flow meter = 6,266,000 gal.

System running normally
Offsite at 11:45AM

Danielle Berati

5/12/09

Weather 60° Sunny

Onsite Danielle Benati for
Weekly sampling @ 9:45AM

- System check - OK
- running normally / no alarms

- EQ tank @ 1600 gallons
- Brass flow meter = 6307,600
- change P1 & P2 filters,
P1 ~ 13psi and P2 ~ 16psi

- Turned on air stripper at
10:00 AM

- Hand pumped, sampled effluent
at 10:05 AM
pH effluent = 8.59

Control Panel

MH1 2481097

MH2 1636486

Sump 1175

effluent 6902425

- offsite at 10:15 AM

Danielle Benati

5/19/09

Weather 65° Sunny

Onsite: Danielle Benati for
weekly sampling at 11:00 AM

- System check - OK
- System running

- Sampled effluent at 11:02 AM
- pH effluent = 8.49

Changed P-1 filter - 18psi

- DAN Clark from the DEC onsite
to speak w/ building manager
for coolidge.

- P-2 filter running at 16psi.

- Flow meter = 6358300 gallons

Control Panel

MH-1 : 2501327

MH-2 : 1669792

Effluent: 6962504

Sump: 1175

- offsite at 11:25 AM

Danielle Benati

5/27/09

Weather: Rainy 50°

Onsite: Danielle Benati for
weekly sampling @ 11:45 AM

- System check - OK
- EO tank @ 1200 gallons
- water on floor - could be from leaky ceiling / rain.

- changed P1/P2 filters
- calibrated pH meter
- Turned on air stripper at 12:20 PM
- Sampled by hand pumping at 12:30 PM
- pH effluent: 8.27

- When I turned on air stripper I noticed it was leaking in between the 2nd and 3rd trays shooting air / mist

- PSI ~ 16 psi AS2 ~ 15 psi

5/27/09

Brass Flow Meter = 64,105,000 gallons

Control Panel

MH 1: 2,521,436

MH 2: 1,705,835

Sump: 1175

Effluent: 7,024,484

System running normally

Offsite at 12:45 PM

Danielle Benati

6/3/09

Weather: 50° cloudy

Onsite: Danielle Benoit onsite
at 9:30AM for weekly/monthly
sampling

- System check - ok, running
normally

- changed P1 & P2 filters

- EQ tank @ 1200 gallons

- Hand pumped MH-1 to sample
at 9:45AM
pH MH-1 = 7.06

- sampled MH-2 at 9:52
MH2 pH = 7.11

- Turned air stripper on at 10:10AM

- Hand pumped effluent at
10:15 AM
pH effluent = 8.34

- Hand pumped MA-1 a little more
to get enough water to sample

6/3/09

- P1 filter ~ 18 psi

- P2 filter ~ 16 psi

Brass flow meter: 6476700

Control Panel

MH-1 = 2553531

MH-2 = 1744184

Effluent = 1175 7103156

Sum p = 1175

System running normally at
10:30AM - offsite

Danielle Benoit

6/4/09

Weather 60° Sunny
Onsite Danielle Benati to
facilitate drum removal
with Paragon Environmental

Onsite at 8:00 AM

Scheduled trucks did not
come

re-scheduled for June 24th

~~Danielle Benati~~

6/10/09

Weather 50° Cloudy
Danielle Benati onsite for
weekly sampling at 10:20 AM

- System check - ok
- no alarms

- Tank @ 1200 gallons

- Hand pumped MH-1 & MH-2

- Changed bag filters (p-1 only)

- Ran air stripper for 8 minutes
- sampled effluent at 11:00 AM
pH effluent = 8.27

Brass Flow Meter = 6513/00 galled.

Control Panel

MH-1 - 2572333

MH-2 - 1764546

SUMP - 1175

Effluent - 7146463

- offsite at 11:15 AM

~~Danielle Benati~~

6/18/09

Weather 50° Rainy

Onsite Danielle Benati for weekly
sampling at 9:35 AM

- System check - OK

- ~~40~~ tank @ 1200 gallons

- changed P1 + P2 filters

- Hand pumped MH-1 for 1 minute

- Turned on air-stripper at
10:00 AM

- sampled effluent at 10:08 AM
- pH effluent = 8.45

- P1 and P2 running at 18 and 16 psi
respectively.

- mended 2 leaks w/ duct tape

- Brass Flowmeter = 657 4500

6/18/09

Control Panel

MH-1 = 2597340

MH-2 = 1804868

Sump = 1175

effluent = 7219941

- Offsite at 10:40 AM

Danielle Benati

6/24/09

Onsite for drum removal and weekly sampling, Danielle Benati (CHA) and Peter (Paragon) Markowski (Subcontractor)

Weather: 70° Sunny

- Onsite at 7:45 AM

- to be removed: 2 drums of sludge from MH-2 cleaning, 1 drum of bag filters.

- Trucking company: RINECO Sublet
Maumee Trucking. onsite 8:20

Maumee Express
Somerville, NJ

- Licensed Special
Waste Hauler 3401

Truck # 5167

- liquid indust. waste
hauler

- hazardous waste
hauling vehicle

Paragon/Maumee offsite at 8:40 AM

6/24/09

- System check - OK

- EQ tank @ 1800 gallons

- Changed P1 and P2 filters

- Turned on blower at 9:05 AM

- Turned pump 6A 9:10 AM

- Sampled effluent at 9:12 AM
pH effluent = 8.30

- P1 $\approx$ 18 psi, P2 $\approx$ 16 psi

- Brass Flow Meter = 6632300 gallons

- Control Panel

MH-1: 2624761

MH-2: 1838916

Effluent: 7289193

Sump: 1175

- System running normally - offsite
at 9:30 AM

Danielle
Benati

July 12/09

Weather ~ 60° Rainy

Onsite: Danielle Benati for
weekly/monthly sampling at 10:15 AM

- System check - OK

- EQ tank @ 1200 gallons

- changed P1 & P2 filters

- Hand pumped MH-1 and sampled
at 10:45 AM
pH MH-1 = 7.13

- Turned on air stripper at 10:54 AM
sampled effluent at 10:59 AM
pH effluent = 8.41

- Noticed significant leak where
I had repaired it last
week - duct tape doesn't
seem to be working.
(leak on front side of stripper)

- P1 $\approx$ 18 psi and P2 $\approx$ 16 psi

- Sampled MH-2 at 11:05 AM
pH MH-2 = 7.20

Brass Flow Meter = 6,687,100 gal.

Control Panel

MH-1: 2646426

MH-2: 1875422

Sump: 1175

Effluent: 7355099

- offsite at 11:15 AM

Danielle Benati

7/8/09

Weather: 65° cloudy

Onsite Danielle Bonati for
weekly sampling at 8:45 AM

- System check - OK
- EQ tank @ 1200 gallons
- Changed P1-filter - was not very dirty
- P1 $\approx$ 18 psi P2 $\approx$ 16 psi
- Turned on blower at 9:00 AM
- Sampled effluent (pumped by hand) at 9:06 AM
 - pH effluent = 8.38
- Brass flow meter = 67-26700 gallons

Control Panel

MH-1: 2661115

MH-2: 1902680

SUMP: 1175

Effluent: 7402670

- Offsite at 9:25 AM

Danielle Bonati

7/16/09

Weather: 55° Rainy

Onsite Danielle Bonati to
reset system (in alarm) and weekly
Sampling - 9:00 AM

- System in alarm
 - MH-1 - High
 - MH-2 High
 - EQ tank High
- Because of all the rain, the EQ tank filled faster than the air stripper treats, so tank fill over the high level mark and system shut down.
- Hand pumped EQ tank
 - EQ high alarm off at 9:05 AM
- Sampled effluent at 9:30 AM
 - pH effluent = 8.29

7/16/09

- Bag filter pressure high - changed
P1 filter,

- MH-1 High Alarm off at 9:45AM

- MH-2 High Alarm off at 10:00AM

- changed P1 & P2 filters (18, 16 psi)

- Brass Flow Meter = 6,767,800

- Control Panel

MH-1 = 2678336

MH-2: 1929823

Sump: 1175

Effluent: 7452219

- System running normally

- offsite at 10:30AM

~~Danielle Benati~~

7/22/09

Weather 70° humid

Onsite: Danielle Benati for
weekly sampling @ 8:20AM

- System check = ok

- EQ tank ~ 1900 gallons

- changed P1 and P2 filters

- Turned blower on at
8:43 AM

- Hand pumped 6A at 8:48AM

- Sampled effluent at 8:50AM

- pH effluent = 8.38

- Filters P1 ~ 16psi P2 ~ 12psi

- Brass Flow Meter = 6,807,700 galls.

- Control Panel

MH-1: 2692821

MH-2: 1958312

Sump: 1175

Effluent: 7500220

- offsite @ 9:00 AM

~~Danielle Benati~~

7/30/09

Weather: 80° Sunny

Onsite: Danielle Benati for weekly
sampling at 11:20 AM

- System check - ok.

- Small amounts of water
on floor from leaking
airstripper.

- EQ tank ~ 1200 gallons

- changed P1 and P2 filters
running at 16 and 14 psi respectively.
- Turned on airstripper at 11:45 AM

- Hand pumped GA at 11:50 AM

- Sampled effluent out

11:50 AM

pH effluent = 8.37

- Brass Flowmeter = 6856300

- Control Panel: MH1: 2710282

MH2: 1992935

Sump: 1175

effluent: 7558854

- offsite at 1200

Danielle Benati

8/5/09

Weather 75° Sunny

Onsite: Danielle Benati for ^(monthly) weekly
sampling at 8:45 AM

- System check - ok

- EQ tank ~ 1400 gallons

- changed P1 and P2 filters

- Calibrated pH meter (2 point cal)

- Pumped MH-1 by hand sampled at
9:30 AM pH MH-1 = 6.98

- Turned on air stripper at 9:36 AM

- Pumped effluent by hand at

9:42 ~~10:00~~ AM - sampled

pH effluent = 8.18

- P1 filter running at 16 psi, P2
filter ~ 12 psi

8/5/09

- Sampled MH-2 at 9:50 AM
pH MH-2 = 7.01

- Brass Flow Meter = 6903,700 gallons

- Control Panel MH-1: 2729070
MH-2: 2025421
Sump: 1175
Effluent: 7616343

- System running normally
offsite at 10:15 AM

- Paul Fisher (Synapse) onsite

Sample Results

8-12-09

ON SITE @ 11:00
WEATHER 80° Humid

L.P.M. ON SITE TO PERFORM WEEKLY
SAMPLING AND TO MEET W/ P.I. WASTE
MANAGER AND FORM CALIFORNIA SYNAPSE
AGO: BRUCE MCCABE, PAUL FISHER, - SYNAPSE / RICHARD
SYSTEM OPERATIONS - OIL - NO ALARM

EA TANK @ 1900 GAL

Control Panel

MH-1 2,745,941 gal

MH-2 2,057,504 gal

Sump - 1175 gal

EFFLUENT - 7670,312 gal

BRASS FLOW METER READING
6,948,300 GAL

EFFLUENT
SAMPLED @ 4:30
pH @ 8.02

SYSTEM CALLED "ON" WHILE ON
SITE ALL - OK.

8-12-09

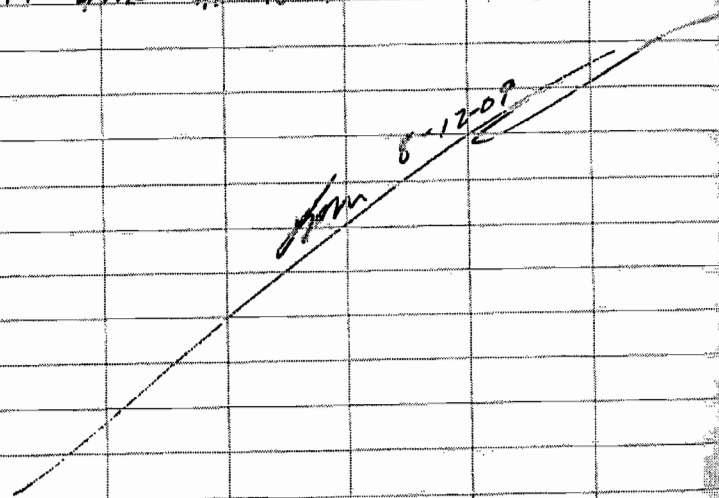
MAF. @ 21" w/ EQ "B" ON

P₁ @ 18 psi

P₂ @ 16 psi

Arso - Change out P₁ @ 12:15
Active system cycled on.

OFF SITE AT 15:30



8/20/09

Weather: 80° Sunny

Onsite: Danielle Benati for weekly
Sampling at 9:00 AM

- System check - OK

- EQ tank @ 1400 gallons

- changed P-1 and P-2 bag filters

- Ran air stripper for 5 minutes
and sampled effluent at
9:25 AM

- pH effluent = 8.11

- P₁ ~ 16 psi, P₂ ~ 12 psi

- Brass Flow Meter = 6993300 gal.

- Control Panel - MH1-2761532

MH2-2089662

SUMP-1175

EFFLUENT-7724948

- offsite 9:45 AM

Danielle Benati

8/27/09

weather ~ 75° Sunny

Onsite: Danielle Benati for
weekly sampling at 9:00 AM

- System check - OK

- EQ tank ~ 1400 gallons

- changed P1/P2 bag filters

- Turned on air stripper at 9:30 AM

- sampled effluent at 9:35 AM
pH effluent = 8.12

- P1 filter ~ 18 psi P2 filter ~ 16 psi

- Brass Flow Meter - 7030600

- control Panel MH-1 - 2774286
MH-2 - 2117147
effluent - 7770183
sump - 1175

- offsite at 9:45 AM

Danielle Benati

9/2/09

weather ~ 70° Sunny

Onsite: Danielle Benati for
monthly sampling at 9:15 AM

- System check - OK

- EQ Tank ~ 1200 gallons

- changed P1/P2 bag filters

- Pumped MH-1 at 9:40 AM

- sampled MH-1 at 9:41 AM
- pH MH-1 = 7.03

- Turned on air stripper at 9:45 AM

- sampled effluent at 9:50 AM
pH effluent = 8.45

- sampled MH-2 at 10:00 AM
pH MH-2 = 7.17

- P1 filter running ~ 18 psi

- P2 filter running ~ 16 psi

9/2/09 (continued)

Brass Flow Meter = 7074100

Control Panel

MH-1: 2791437

MH-2: 2147082

Effluent: 7822850

Sump: 1175

- Offsite at 10:15 AM

Danielle Bouch

9/9/09

Weather ~ 70° Sunny

Onsite: Danielle Bouch for weekly
Sampling at 9:00 AM

- System check - in alarm
 - overload tripped in MS panel alarm
 - MH-2 High Sump alarm (system in alarm but still pumping/treating M1)
- Un-tripped MH-2 in MS panel.
- overload alarm - off
- EQ tank ~ 1400 gallons
- MH-2 pump turned on and started filling EQ tank.
- changed P1 & P2 filters.
- calibrated pH meter (2 point cal)
- System on automatically at 9:40 AM
 - Sampled effluent at 9:45 AM
pH ~ 8.16
- MH-2 alarm off at 9:50 AM
- Pumped sump w/ extension cord.
(needed power supply to pump)

9/9/02 (continued)

Brass Flow Meter = 7094300

Control Panel

MH-1 - 2805012

MH-2 - 2155656

Sump: 1175

effluent - 7847335

- System running normally
off site at 10:15 AM

Danielle Benati

9/17/09

weather: 60° cloudy

onsite: Danielle Benati for
weekly sampling at 9:00 AM

- System check - ok - running
normally

- EQ tank @ 1800 gallons

- Changed P1/P2 bag filters

- Turned on blower @ 9:15 AM

- Hand pumped 6A at 9:20 AM

- Sampled effluent

- pH effluent = 8.12

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass Flow Meter: 7141500

- Control Panel: MH1 - 2818543

MH2 - 2192997

Sump: 1175

effluent: 7904401

- Offsite at: 9:30 AM

Danielle Benati

9/23/09

Weather ~ 65° Rainy
Onsite: Danielle Berati for
weekly sampling at 9:30 AM

- System check - OK

- EQ tank ~ 1500 gallons

- changed P1 filter and P2 filter

- ~~hand~~ started air stripper at
10:00 AM

- sampled effluent at 10:05
pH = 8.03

- P1 filter ~ 18, P2 filter ~ 16 psi

- Brass Flow meter = 7168700 gal

- Control Panel: MH-1 - 2827652

MH-2 - 2213076

Sump - 1175

effluent - 7937203

- Offsite at 10:30 AM

Danielle Berati

9/30/09

Weather: 50° Rainy
Onsite: Danielle Berati for
weekly sampling at 10:00 AM

- System check - OK

- EQ Tank @ 1200 gallons

- changed P1 and P2 bag filters

- started air stripper at 10:10 AM

- sampled effluent at 10:15 AM
pH = 8.03

- P1 filter ~ 18 psi, P2 filter ~ 16 psi

- Brass Flow meter = ~~7168700~~ 721360

- Control Panel = MH-1 = 2845639

MH-2 = 2243167

Sump = 1175

Effluent = 7991441

- Offsite at 10:30 AM

Danielle Berati

10/5/09

Weather = 60° Rainy

Onsite: Danielle Berach for

Monthly sampling at 9:40 AM

- System check - OK
- EQ tank @ 1400 gallons
- changed P1 and P2 bag filters
- calibrated pH meter
- Hand pumped MH-1 at 10:00 AM
 - sampled MH-1 at 10:01 AM
 - pH MH-1 = 6.85
- Turned on air stripper at 10:10 AM
- Hand pumped / sampled effluent at 10:15 AM pH effluent = 8.24
- Sampled MH-2 at 10:20 AM
 - pH MH-2 = 6.90
- P1 filter ~ 18 psi, P2 ~ 16 psi

10/5/09 (continued)

Control Panel = MH1 = 2861271

MH2 = 2268777

Sump: 1175

Effluent = 369

8036912

Brass Flow Meter = 7251200 gallons

offsite at 1045 AM

Danielle Berach

10/23/09

Weather: 50° Sunny

Onsite: Danielle Benati for weekly sampling at 12:31 pm

- System in alarm - high bag filter pressure
- changed bag filters P1 and P2
- EQ tank at 1900 gallons
- Re-started system
 - bag filter pressure alarm off.

- Brass Flow Meter = 7376700

- Control panel = MH-1: 2913970

MH 2: 2350944

Effluent: 8187873

Sump: 1175

- Turned on air stripper at 1252

- Pumped by hand: p1 ~ 18 p2 ~ 16 psi

- Sampled effluent at 1259

pH effluent = 8.06

- System running normally - offsite at 1:55 pm

Danielle Benati

12/29/08 450 LLOVAT

- ON SITE @ 08:00

- Change P₁ + P₂ FILTER + Sample
for weekly effluent

- Meter Readings

MH-1 2937901

MH-2 2372942

SYSTEM EFFLUENT 8239948

F. SWAMP 1175

BLASS FLOW METER READING 7419800

NOTE - CREW FOR SOBER COMMERC.
PROPERTIES ON SITE

- DISCUSSION REGARDING

"IT APPEARS SOMEONE STARTED TO
REMOVE FENCING SURROUNDING
SYSTEM"

- LAG BOLTS LOOSE THAT HOLD
VERTICAL PIPE SUPPORTS -

- PIECES ARE MISSING FROM
FENCE SUPPORTS

- PLATFORM FOR BAG FILTERS
WAS MOVED

- DOOR OPENED WHILE LOCKED

- CHA TO MAKE SIGNS UP
- NO ENTRY, ETC

- COLLECT SAMPLE
AT

- NOTICE - ALL SIGNS
ARE PROVIDED -

- SPoke TO Bob
w/ electrical crew for
Soyuz

Re: the entire pond was
down yesterday (2)

Misc communication between
- Soyuz & sub contractors

- Instructed Bob to repair
fence to previous condition

off hill @ 3:30

[Signature]

10/30/09

Weather = 65° cloudy

Onsite: Danielle Benati (CHA)

System in alarm

- Onsite @ 1300, MH-2 high level alarm, as well as overload tripped in MS panel alarm.

- Tripped / Reset MH-2 - Pump 4.

- MH-2 Pump 4 began pumping.
at @ 3:06 PM
(overload alarm off)

* Approximately 20 bag filters (in grey plastic tote) missing from system area.

- MH-2 Alarm off at 2:00 PM

- changed P1 and P2 bag filters

- System cycled automatically
P1 ~ 16 psi P2 ~ 14 psi

10/30/09

- system cycled twice through on its own (auto)

- Pump ^{Four} ~~Four~~ (MH-2) shut off

- System running normally

- Offsite @ 3:15 PM

Danielle Benati

11/5/09

Weather 40° Sunny

Onsite: Danielle Benati

for weekly/monthly sampling
at 9:00 AM

- System check - running normally

- EQ tank ~ 1400 gallons

- Hand pumped MH-1 and
sampled at 9:10 AM
pH = 6.81

- (I first re-calibrated the
pH meter before I took
MH1 pH reading) - 2 point
calibration.

- changed P1 and P2 filters

- Turned on air stripper at 9:30
- sampled effluent at 9:35
pH effluent = 8.21

- P1 ~ 18 psi, P2 ~ 16 psi

11/5/09

Sampled MH-2 at 9:50
pH = 7.20

Control Panel MH-1 2944489
MH-2 2412040
SUMP 1175
Effluent 8326443

Brass Flow Meter = 7491400

System running normally. Offsite
at 10:15 AM

Danielle Benati

11/12/09

Weather 50° Sunny

Onsite Danielle Berati for
weekly sampling at 10:00 AM

- System check - OK

- SR tank ~ 1500 gallons

- changed P1 & P2 bag filters
(picked up new box (50 ct) from
Trumpler Clancy today)

- Turned on airstripper at 10:35 AM

- Hand Pumped effluent at 10:40 AM
pH effluent = 8.26

- P1 ~ 16 psi - P2 ~ 14 psi

- Brass Flow meter = 7546200

- Control Panel = MH-1 = 2965782

MH-2 = 2446369

Sump = 1175

Effluent = 8392848

- System running normally

- offsite at 10:55 AM

Danielle Berati

11/18/09

Weather 45° Sunny

Onsite Danielle Berati for
weekly sampling at 10:00 AM

- System check - OK

- SR tank ~ 1500 gallons

- changed P1 & P2 bag filters

- Turned airstripper on at 10:10 AM

- Hand pumped effluent, sampled
at 10:15 AM, pH effluent = 8.22

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass Flow Meter = 7584700 gallons

- Control Panel = MH-1 = 2980307

MH-2 = 2472250

Sump = 1175

Effluent = 8439438

- System running normally

- offsite at 10:30 AM

Danielle Berati

11/24/09

Weather 45° Cloudy/Rainy
Onsite Danielle Berati for
weekly sampling at 9:00 AM

- Soggy's Property Management doing
work in building - very dusty

- System check - OK

- EQ tank ~ 1500 gallons

- changed P1/P2 filters

- Turned on air stripper @ 920

- Hand pumped GA at 925

- Sampled effluent pH = 8.14

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass Flow Meter = 7628200 gal

- Control Panel = MH1 - 2988390

MH2 - 2499545

SUMP - 1175

Effluent - 8492166

- System normal/offsite at 945

12/3/09

Weather 60° Rainy
Onsite Danielle Berati for ^{Monthly} ~~Weekly~~
sampling onsite at 845

- System check - OK

- EQ tank ~ 1400 gallons

- changed P1 & P2 filters

- Hand Pumped MH-1, sampled at 9:00 AM
pH MH-1 = 6.93

- Turned on air stripper at 903 AM

- Sampled effluent at 908 AM

- pH effluent = 8.35

- Sampled MH-2 at 915 AM

- pH MH-2 = 6.89

- Brass Flow Meter = 7,691,000 gallons

- Control Panel: MH-1: 3013948 / sump:

MH-2: 2539408

effluent: 8568277

- off site at 945 am

12/10/09

Weather 50° Sunny
Onsite Danielle Benati for
weekly sampling at 9:45

- System check - OK

- EQ tank ~ 1990 gallons

- changed P1 + P2 filters

- System turned on automatically at
1025, sampled effluent at
1030, pH effluent = 8.08

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass flow meter = 7745100

- Control Panel =

MH-1: 3021248

MH-2: 2572347

Sump: 1175

Effluent: 8633747

- System running normally - offsite
at 1045 AM

Danielle Benati

12/16/09

Weather 30° Snowing / cloudy
Onsite Danielle Benati for
weekly sampling

- System check - OK

- EQ tank @ 1900 gallons

- Changed P1 & P2 bag filters

- System turned on at 1015, sampled
effluent at 1020, pH = 8.06

- P1 ~ 16 psi, P2 ~ 14 psi

- Brass Flow meter = 7795600

- Control Panel: MH1 = 3043329

MH2 = 2602533

Effluent = 8694860

Sump = 1175

- Leak in gasket made over motor

- System running normally

- offsite at 1045 AM

Danielle Benati

12/22/09

weather 40° sunny

Onsite - Danielle Benati for
weekly sampling

- System check - ok

- EQ tank ~ 1950 gallons

- changed P1 + P2 filters

- Hand pumped Pump 1 (MH-1)

- System started automatically,
Sampled effluent at 1025 AM
PH ~ 7.93

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass Flow meter - 7845500

- Control Panel MH1 3065090

MH2 2632320

Sump 1175

Eff. 8755217

- System normal - offsite @ 1040 AM

Danielle Benati

12/24/09

weather 30° sunny

Onsite Danielle Benati for weekly
sampling

- System check - OK

- EQ tank ~ 1950 gallons

- changed P1 + P2 filters

- turned on air stripper at 1015

- sampled effluent at 1020
PH effluent = 8.17

- P1 ~ 18 psi, P2 ~ 16 psi

- Brass Flow meter = 7899800

- Control Panel MH-1 - 3090087

MH-2 - 2664388

Sump - 1175

Effluent - 8820884

- Offsite at 1045 AM - system
normal

Danielle Benati

**APPENDIX H
PERIODIC REVIEW REPORT**

**2009 ANNUAL OPERATION, MAINTENANCE AND
MONITORING REPORT**

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

JULY 2010



Enclosure 1
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			
Allowable Use(s) (if applicable, does not address local zoning):			
Site Acreage: 77.0			

Verification of Site Details		Box 2	
		YES	NO
1. Are the Site Details above, correct?		☒	☐
If NO, are changes handwritten above or included on a separate sheet?		☐	
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?		☐	☒
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		☐	
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?		☒	☐
If YES, is documentation (or evidence that documentation has been previously submitted) included with this certification?		☒	
<i>New SPDES Outfall-O3B (See Section 5.1 of the OM&M Report)</i>			
4. If use of the site is restricted, is the current use of the site consistent with those restrictions?		☒	☐
If NO, is an explanation included with this certification?		☐	
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		☐	☐
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?		☐	
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years)?		☐	☐
If NO, are changes in the assessment included with this certification?		☐	

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

☒ ☐

3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in the Decision Document);

I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in the Decision Document) are being met.

YES NO

☒ ☐

4. If this site has a Monitoring Plan (or equivalent as required in the remedy selection document);

I certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the Decision Document) is being met.

YES NO

☒ ☐

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.

I Roger Creighton at 325 E. Water Street, Syracuse, NY
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]
Signature of Owner or Remedial Party Rendering Certification

7/26/2010
Date

IC/EC CERTIFICATIONS

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) 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.

I PAUL M FISHER at 2426 County Route 12, Central Square, NY
print name print business address

am certifying as a Qualified Environmental Professional for the DANAHER CORP.

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

[Signature]
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification



7/26/10
Date

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.

I _____ 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

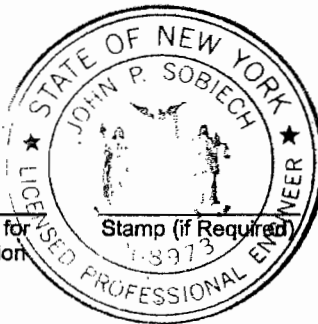
I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

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.

John P. Sobiech
Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification



Stamp (if Required)

07/20/10
Date