2007 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

March 2008

Revised June 2008

CERTIFICATION

I, Paul M. Fisher, P.E., as a New York State licensed Professional Engineer, certify that the 2007 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, 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.

ENSR | AECOM

ENSR
5015 Campuswood Drive, East Syracuse, New York, 13057-4232
T 315.432.0506 F 315.437.0509 www.ensr.aecom.com

CERTIFICATION

I, Daniel M. Shearer, P.E., as a licensed Professional Engineer in the State of New York, certify that Section 6 of the 2007 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, Section 1.5(a) 8 and has been prepared in accordance with good engineering practices.

ENSR | AECOM

Daniel M. Shearer, P.E.

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LIST OF APPENDICES

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, *Technical Guidance for Site Investigation and Remediation* 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 *Technical and Operation Guidance Series (1.1.1) Ambient Water Quality and Guidance Values and Groundwater Effluent Limitations* 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

1.0 INTRODUCTION

This 2007 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). The Chicago Pneumatic Tool Company (CPTC) occupied the Property from 1948 through 1997 for manufacturing. Utica Holding Company (UHC), a subsidiary of Danaher Corporation (Danaher), presently owns the land surrounding the former CPTC main manufacturing building (Main Building) that is leased to Utica Land Equities, LLC (ULE). Coolidge Utica, LLC (Coolidge) presently owns the Main Building and the land beneath.. Coolidge and ULE share members and offices.

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 and Page vi, 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; and
- To provide information to the public.

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 three 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.

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 2007, with the exception of the GTS, which has been operated by ENSR International Inc. (ENSR) of East Syracuse, New York since May 2005, 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. UHC retains ownership of the Property, which includes the ancillary buildings and the land, excluding the Main Building and the land beneath (see Figure 2-2 – Facility Plan). The Main Building and the land beneath is presently owned by Coolidge, whom subsequently rents/leases portions/sections of the building to various tenants. The peripheral Property receives monthly inspection and maintenance in conjunction with the required inspections of the RAF and associated components. UHC does not have access to the Coolidge Main Building and therefore is not permitted by Coolidge to conduct inspections of the building interior. 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. The Property, with the exception of the Main Building and the land beneath, is currently owned by UHC, a subsidiary of Danaher. The 458,000 square foot Main Building and the land beneath has been owned by Coolidge and the remaining land, owned by UHC, is leased by ULE since 1997.

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 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 the 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 three 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

The majority of the Property buildings are currently occupied by tenants that generally include trucking, cosmetic storage, food (dough) manufacturing, and printing businesses. 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 2007 with the exception of the unscheduled asbestos abatement activities. During a scheduled monthly RAF inspection, Thermal System Insulation (TSI) was identified on the pavement of rear access road between the former power house and Coolidge's Main Building. Upon further inspection the source of the TSI was from former steam lines from the former power house to the main building. The abatement project undertaken by UHC involved the removal of a portion of damaged TSI that connects the boiler house to the main building. Coolidge's abatement project consisted of removal of TSI from the pipes overlying its Main Building.

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 2007, 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

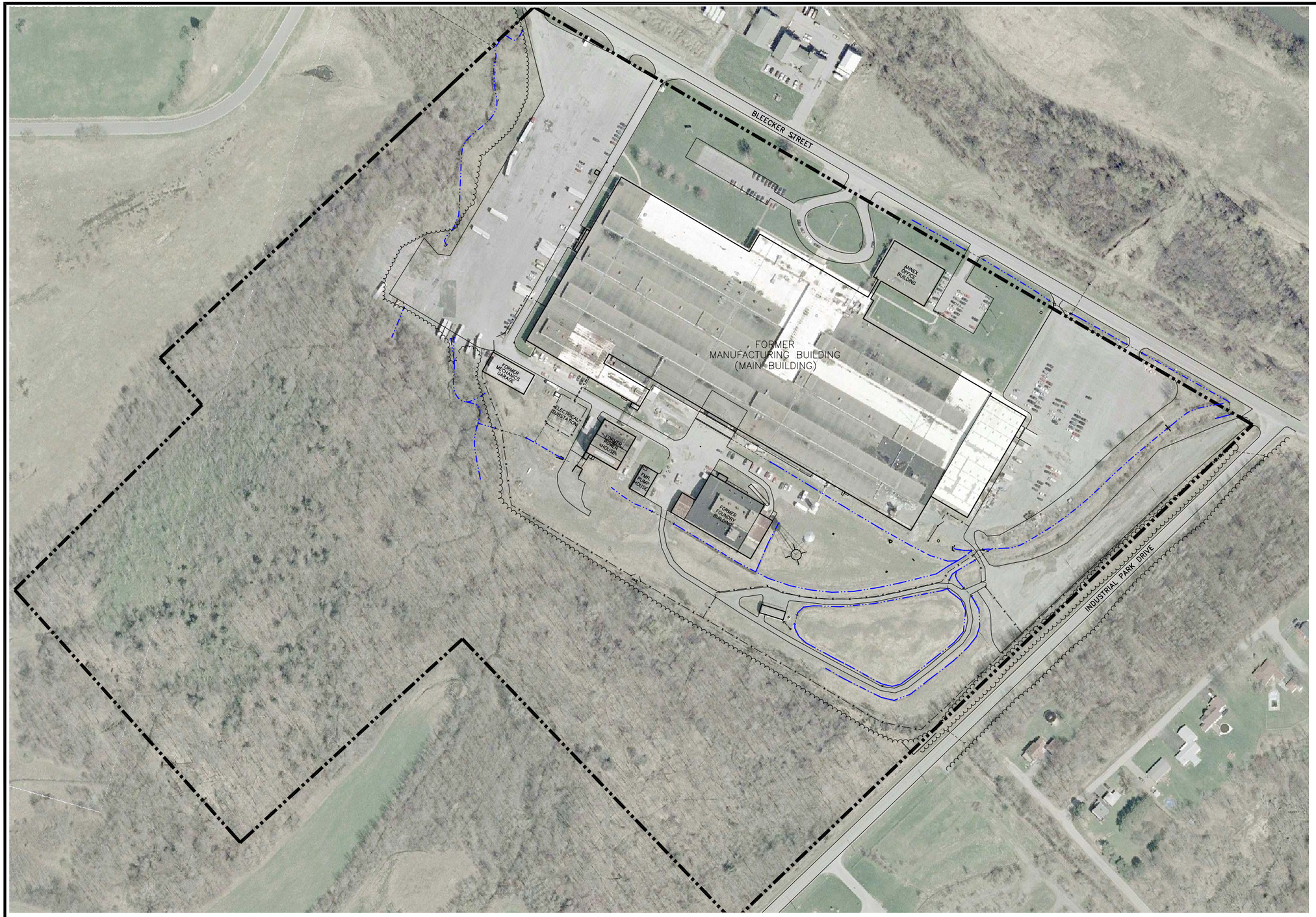
The Property is generally drained via existing drainage ditches located at the east and west portions of the Property. The west unnamed creek, (former Area 1) (See Figure 2-3), flows from the south through a wooded area and runs along the western extent of the Property, exiting at the northwest corner 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 Bleecker Street, approximately 300 feet off-site to the west. This culvert was installed to limit flooding of Bleecker 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 north-south ditch, (Area 14), along the eastern portion of the Property. This east drainage ditch joins a road ditch located parallel to Bleecker 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 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 Bleecker Street, ultimately discharging off site via a culvert under Bleecker Street.

2.6 Summary

The northern portion of the Property continued to be active throughout 2007, with no notable changes to daily operations; 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 accessed a minimum of once per month allotting reviews of ongoing activities and inspection of the drainage system. 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



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 LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. PROPERTY LINE INFORMATION TAKEN FROM HERKIMER COUNTY TAX MAPS AND IS APPROXIMATE.
3. 2003 AERIAL PHOTO FROM NYSGIS WEBSITE.

120' 0 120' 240'

GRAPHIC SCALE: 1" = 240'

X: CP-BASE
P: DL2BC
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB03.DWG

synapse

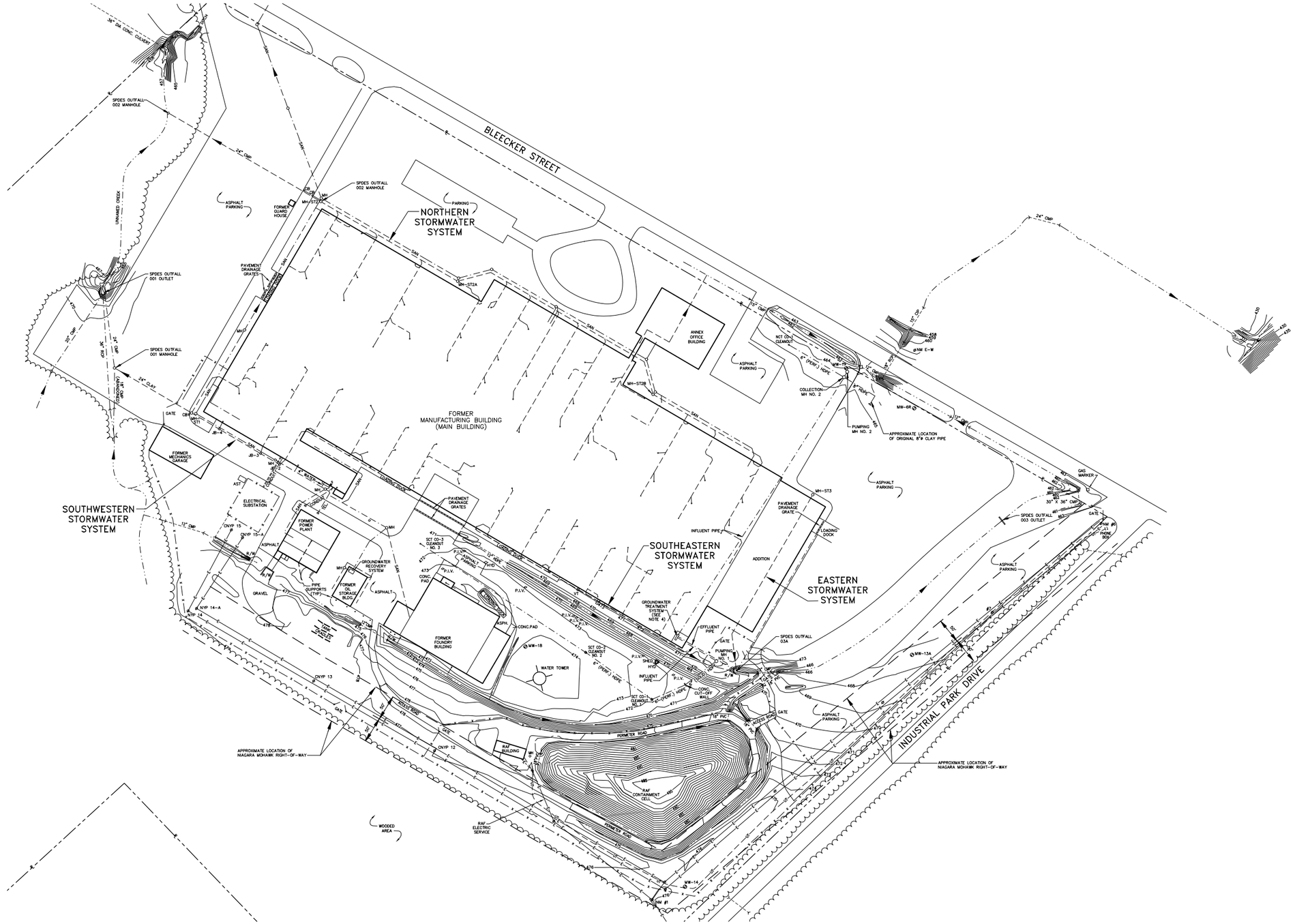
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

AERIAL PROPERTY MAP

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 2-1



LEGEND

470	ELEVATION CONTOUR
MH	MANHOLE
x x x x	CHAIN LINK FENCE
CNYP 12	UTILITY POLE
R/W	RETAINING WALL
	SURFACE 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
	DRAIN
E	POWER LINE (ABOVE GROUND)
E	POWER LINE (UNDERGROUND)
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 LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. THE GROUNDWATER TREATMENT SYSTEM CONSISTS OF AN AIR STRIPPER AND TWO PUMPING MANHOLES IMPLEMENTED AS AN INTERIM REMEDIAL MEASURE SYSTEM DESIGNED AND INSTALLED IN 1995.

X: CP-BASE
P: BL
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB04.DWG

synapse

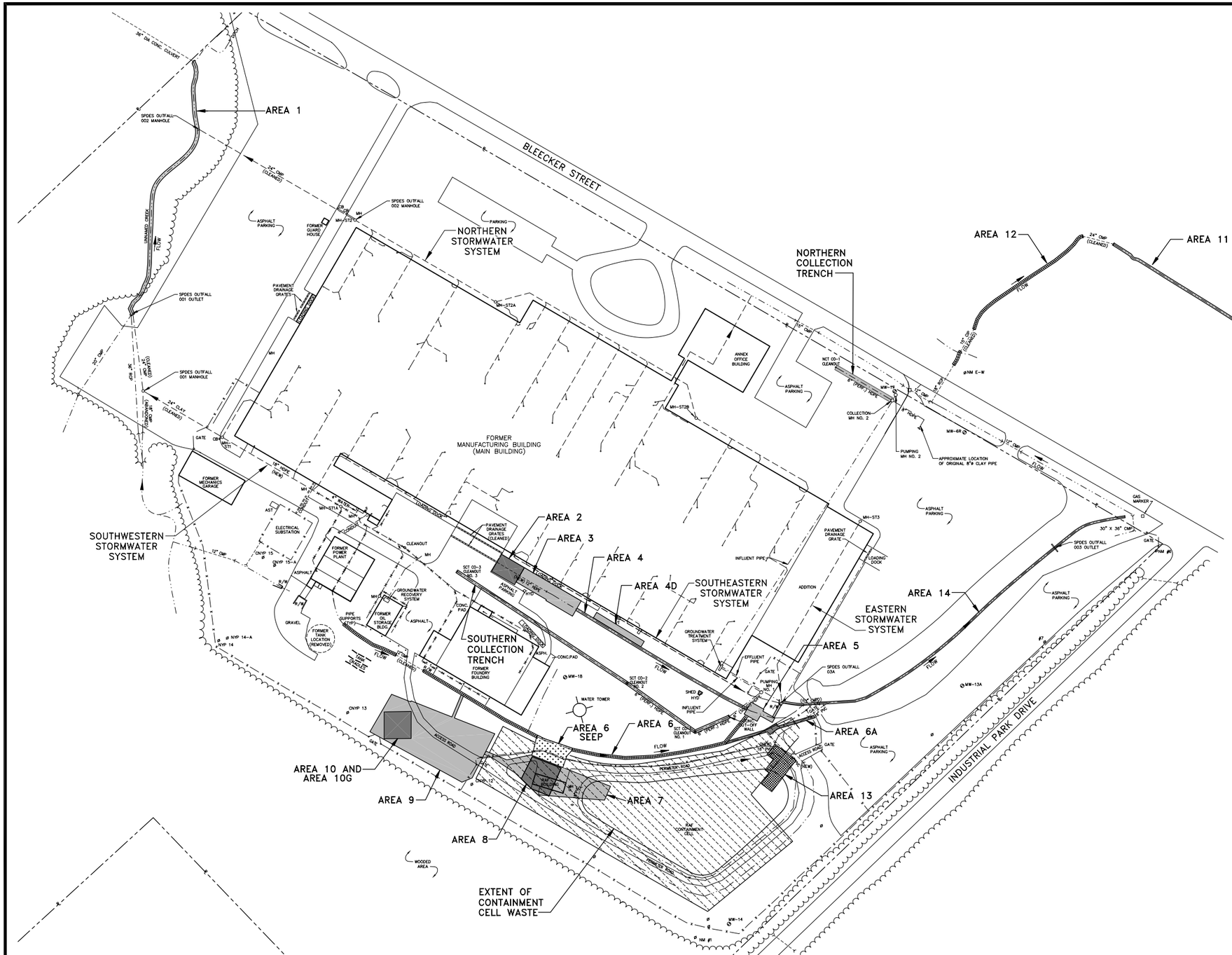
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

FACILITY PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 2-2



LEGEND

- MANHOLE
- CHAIN LINK FENCE
- UTILITY POLE
- RETAINING WALL
- DRAINAGE CULVERT
- DRAINAGE DITCH
- DRAINAGE PIPE
- STORMWATER DRAIN
- NEW STORMWATER DRAIN
- ABANDONED UNDERGROUND PIPE
- TREE LINE
- MONITORING WELL
- FIRE HYDRANT
- VALVE
- EXCAVATION AREA REQUIRING OFF-SITE DISPOSAL AS A TSCA-REGULATED MATERIAL PCB CONCENTRATION >50 ppm)
- EXCAVATION AREA REQUIRING PLACEMENT INTO THE SVE PORTION OF THE ON-SITE CONTAINMENT CELL (VOC CONCENTRATION >10 ppm, PCBs <50ppm)
- EXCAVATION AREA REQUIRING PLACEMENT INTO THE ON-SITE CONTAINMENT CELL (VOC CONCENTRATION <10 ppm, PCBs <50ppm)
- SELECT WASTE (TOPSOIL)
- EXCAVATION AREA REQUIRING OFF-SITE DISPOSAL (VOC CONCENTRATION >10 ppm)
- CULVERT THAT WAS CLEANED
- NEW CULVERT
- DRAIN
- 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 LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. 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.

0 100' 200' 400'

GRAPHIC SCALE: 1" = 200'

X: CP-BASE
P: BL
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB05.DWG

synapse

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2200 BLEECKER STREET
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HISTORICAL REMEDIAL ACTION AREAS

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 2-3

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 results 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 and subsequent inspection and maintenance.

- *Leachate Collection System* - A leachate collection system, 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* - Leachate pumped from the collection manhole is 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. A flow totalizer is used to track the quantity of leachate pumped to the tank from the collection manhole, and a level sensor installed in the tank is used to determine the instantaneous quantity of leachate in the tank. The level sensor is also electronically connected to an auto dialer system to notify personnel of alarm conditions via telephone and facsimile. The tank is also equipped with a sampling port, drain fitting, electric heating elements, and insulation, utilized to prevent freezing of the tank and piping during winter months. In addition, a concrete truck pad, with a grated sump is located adjacent to the tank to provide containment during pumping of leachate from the tank to a tanker truck, prior to disposal.

- *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 leachate collection system operated continuously during 2007. 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 are 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, assuring the heat and vent systems were functional. The ISACC, located in the RAF building, provides continuous monitoring information of the leachate collection manhole and 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, if any, and testing during the 2007 calendar year. An annual total system check was performed on August 14, 2007, as required, and documented on Form F, included in Appendix B, no alarms were received during 2007.

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 3,000 gallons were pumped and metered during 2007, totaling 67,400 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 2007 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 2007 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;
- Adjustment and replacement of sheet metal barrier panels and bird netting to continue to prevent pigeon roosting in the open portion of the RAF building; 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. The leachate collected in the manhole is then transferred, via automatically controlled pumps, to the on-site leachate storage tank. As this is a lead/lag pumping system, the lag pump acts as a backup.

Leachate generation/collection is monitored by two methods; measuring the fill height in the tank and through a flow totalizer. The on-site ISACC system provides real time data and remote location monitoring of the leachate generation. 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 provides tracking of tank filling events (i.e., water level in the tank). The tank filling is monitored and is equipped with a shut down system, so as not to overfill.

The inline flow totalizer was 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 December 2007. Chart 3-1 – Cumulative Leachate Generation graphically represents the data from Table 3-1. A total of 3,000 gallons was metered during 2007, comparable to an average flow of approximately 8.2 gallons per day (gpd). The overall trend of yearly leachate production has decreased as depicted in Table 3-2 – Leachate Generation Per Year, and Chart 3-2 – Leachate Generation Per Year.

3.5 Leachate Disposal

The leachate is temporarily stored in the on-site 5,000-gallon storage tank, which is within a steel secondary containment sized to contain 110% of the tank volume. The leachate requires analytical analysis prior to bulk batch disposal. The scheduling of the sampling events and subsequent disposal is based on tank level data monitored by the ISACC system. The sampling and disposal of the leachate were performed during 2007 in accordance with the guidance set forth in the OM&M Manual. One sample of the leachate from storage tank filling number 15 (LT-15), was collected and analyzed as set forth in Permit No. GW-050 issued by the Oneida County Department of Water Quality and Water Pollution Control (OCDWPC).

The analytical results of the leachate sample collected, LT-15, indicated compliance with the permit limits set forth by the OCDWPC. On August 14, 2007, leachate for LT-15 was disposed of to the OCDWPC sanitary sewer system and leachate storage tank filling number LT-16 began. Prior to pumping the leachate from the tank, an internal inspection of the tank was conducted. In order to evaluate the ISSAC systems functions accuracy, an instrument check was conducted by measuring the leachate level in the tank (70.5”) with comparison to the ISSAC reading (70.67”). The ISSAC system continues to effective monitor leachate generation as designed. The leachate disposal authorization for LT-15 from OCDWPC and analytical data packages are provided in Appendix C - Leachate Disposal Correspondences and Analytical Data. The total leachate disposal for 2007 was approximately 2,800 gallons.

3.6 Summary

The RAF facility and associated components generally operated as planned through 2007. The monitoring and inspection continues, as necessary, to evaluate trends and the ongoing condition of the facility. The operation and maintenance performed during the 2007 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 collected during 2007 (3,000 gallons), indicates an overall downward tend in leachate generated to date. The average production rate for 2007

was approximately 8.2 gpd. The leachate generated and batch discharged from the containment cell continues to meet the requirements set forth in the OCDWPC permit. Only one bulk disposal event was required in 2007 totaling approximately 2,800 gallons and is considered as the 15th tank filling and disposal event. Synapse concludes that the RAF performed as designed during 2007.

3.7 Tables

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2007 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

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2007 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)
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
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

NOTES:

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

TABLE 3-2
ANNUAL LEACHATE GENERATION

2007 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

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

2007 ANNUAL OM&M REPORT
2200 BLEEKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

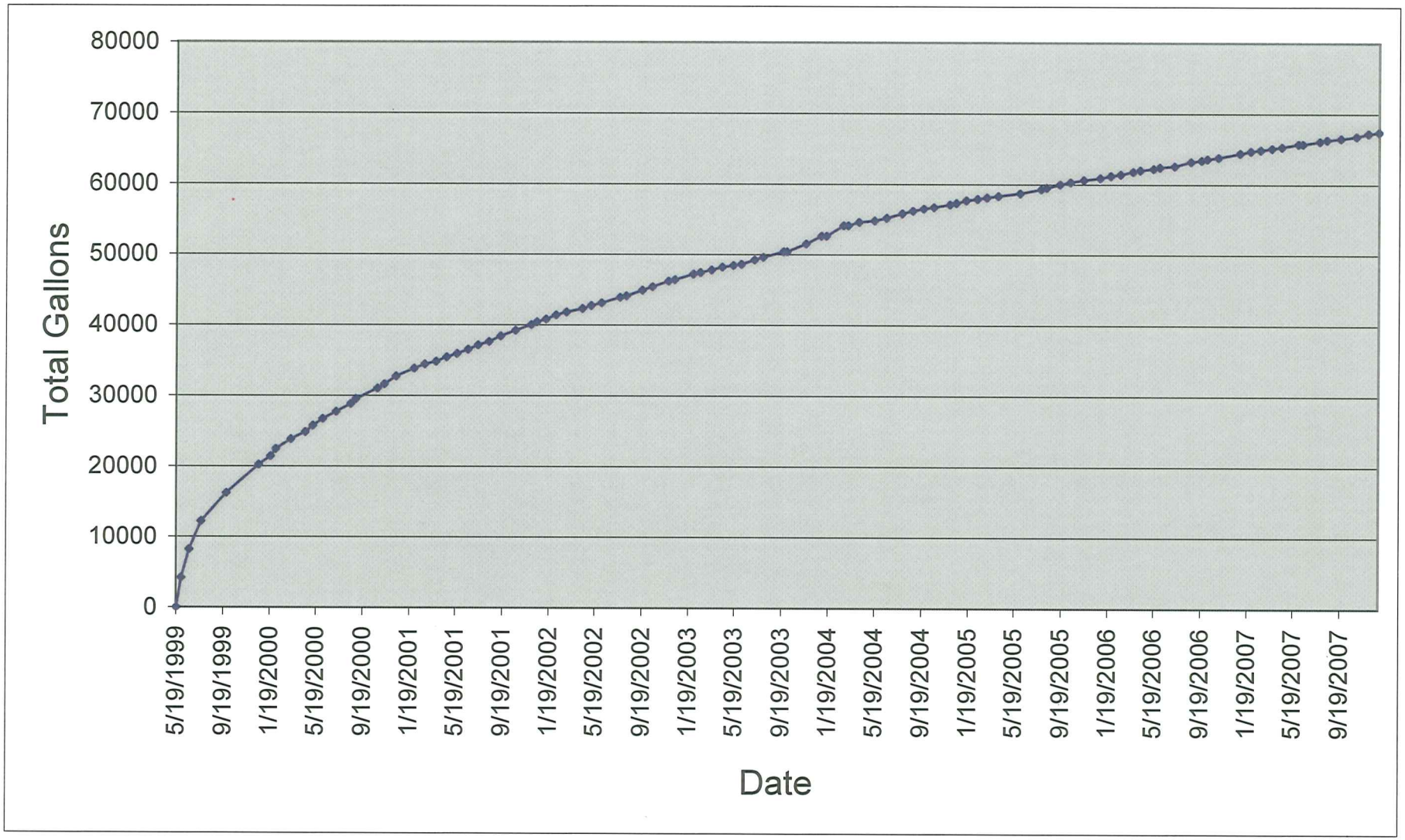
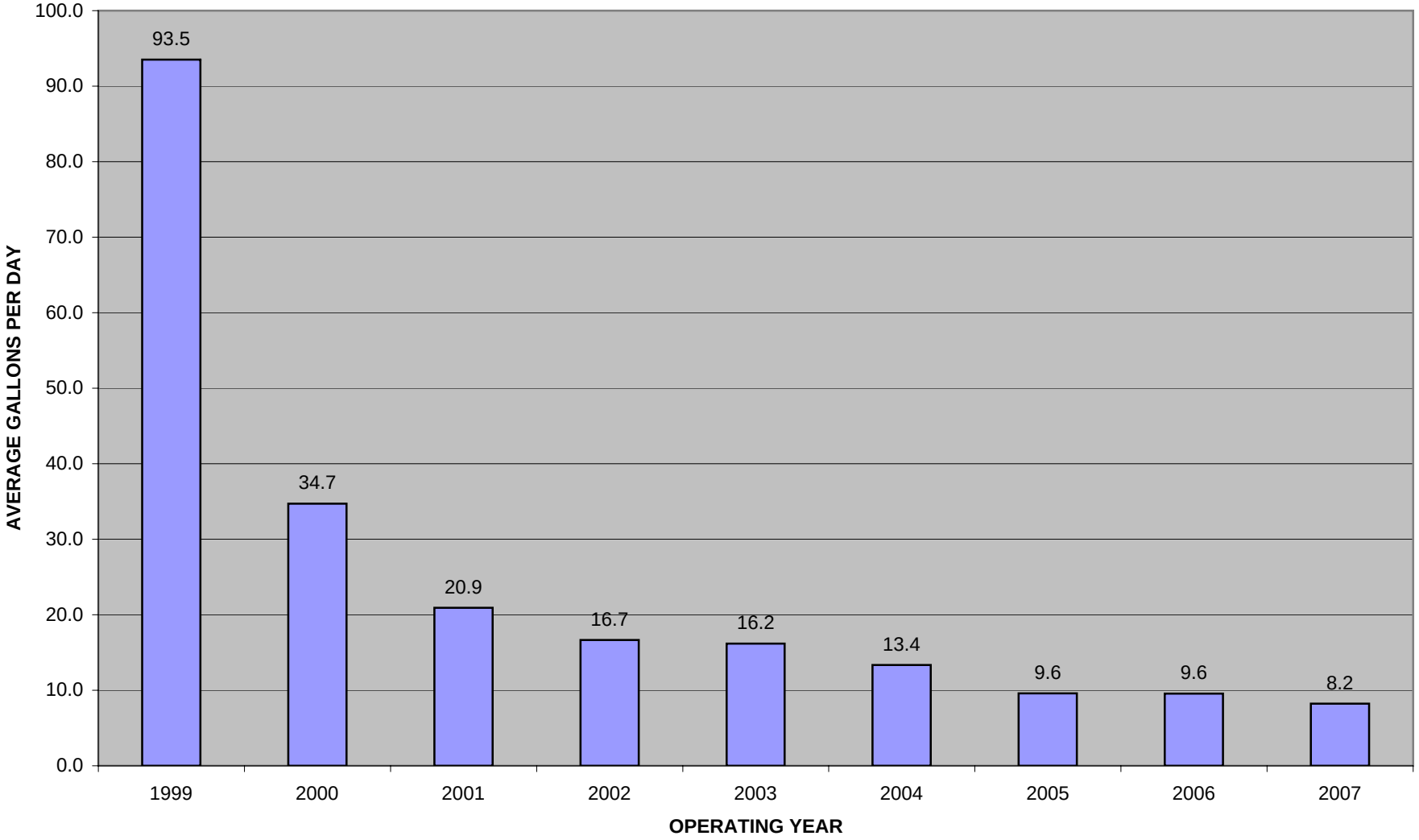


CHART 3-2
LEACHATE GENERATION PER YEAR

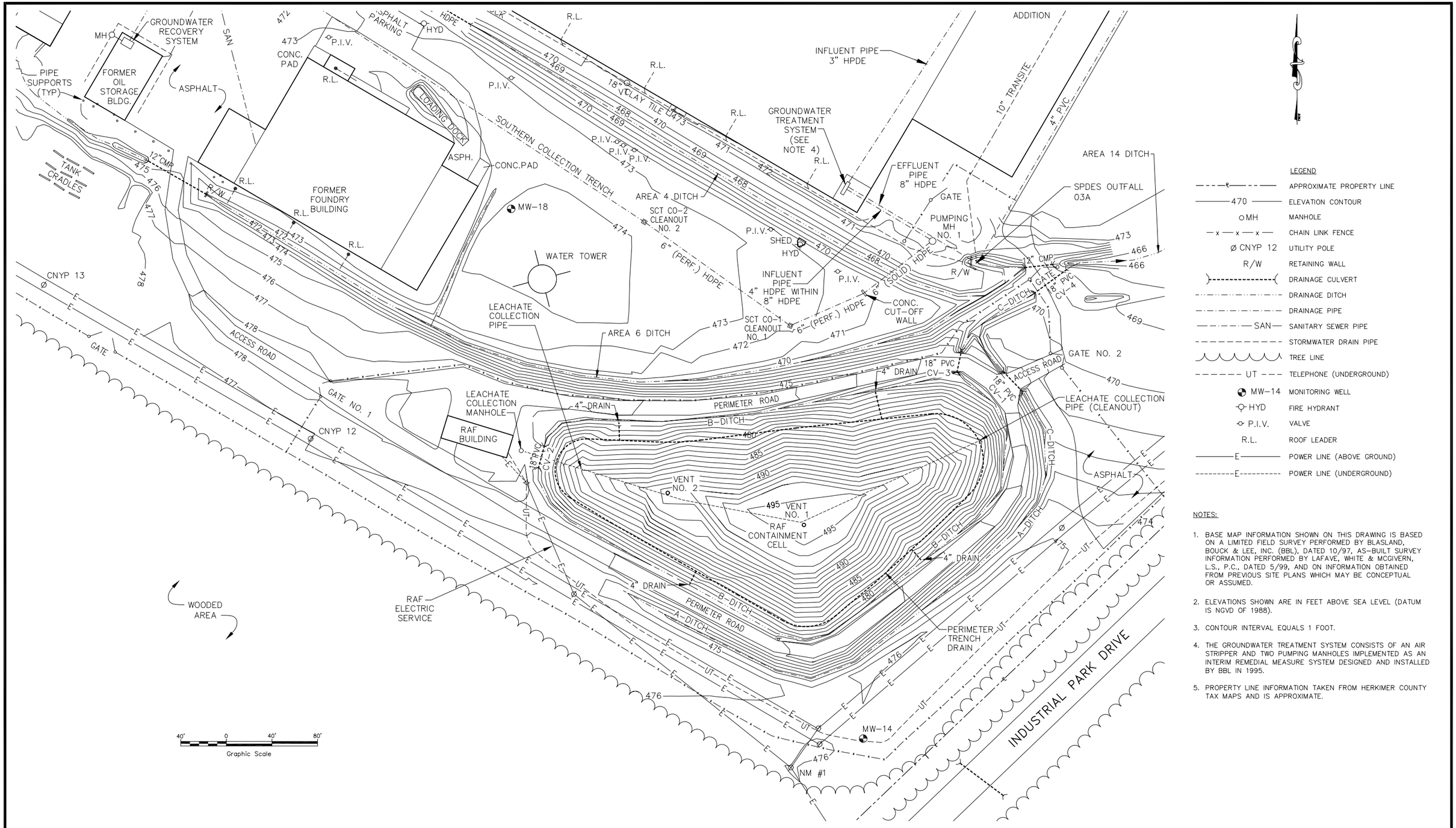
2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003



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

NOTES:

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

X: CP-BASE.DWG
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB11.DWG

synapse

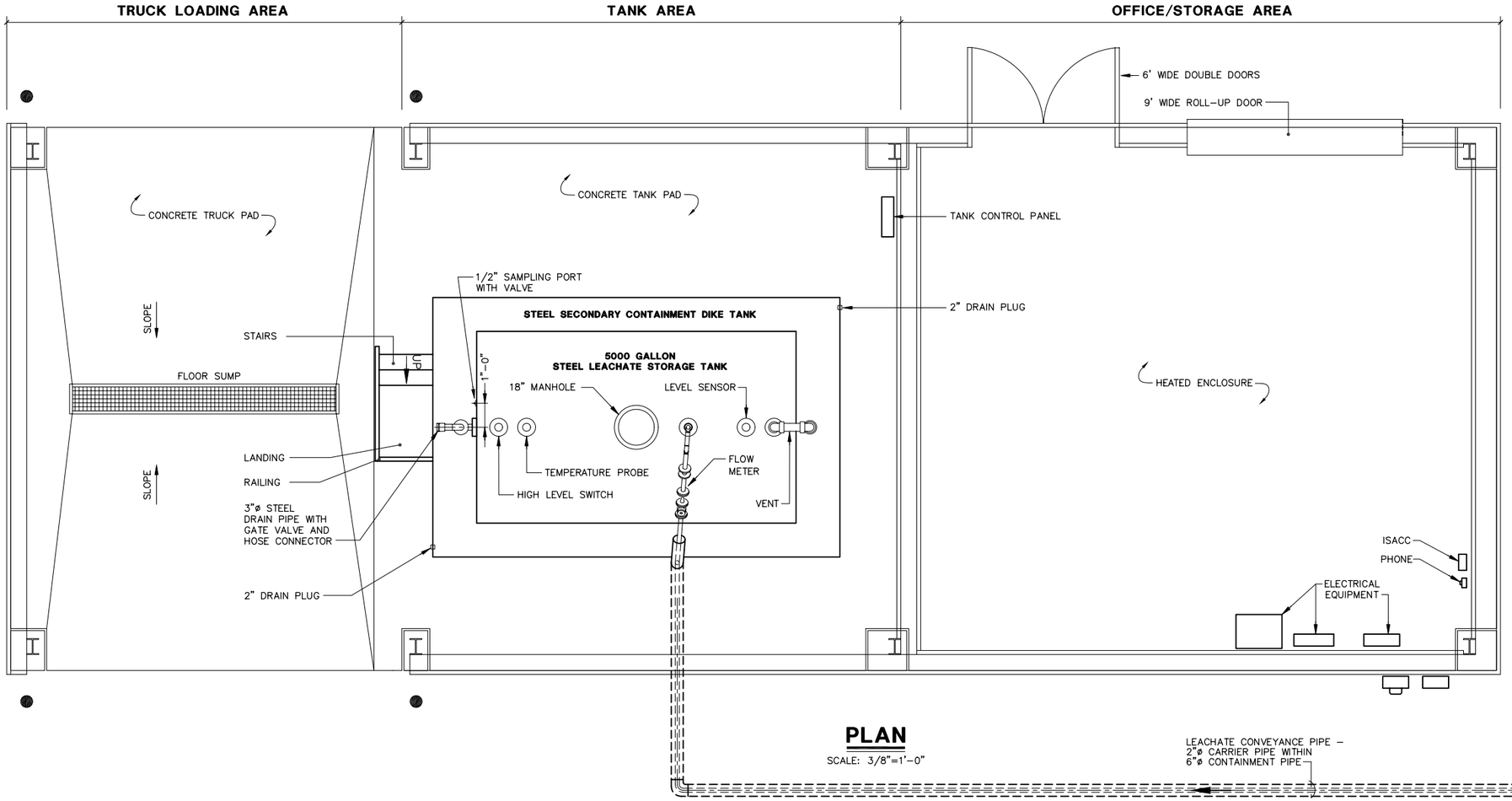
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

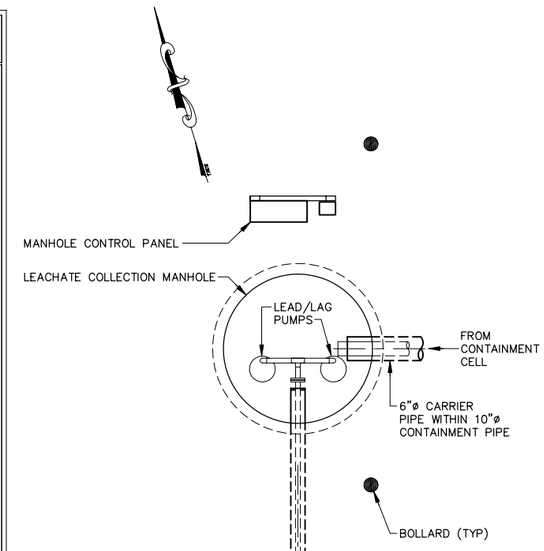
2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

REMEDIAL ACTION FACILITY PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 3-1





PLAN

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

0 4' 10'

GRAPHIC SCALE

X: FOUNDAT.DWG
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB10.DWG

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

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

BUILDING, TANK, AND PIPING PLAN

PROJECT NO.: DANA 01-04

DATE: MARCH 2008

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 2007. 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. A sixth monitoring well, MW-3 was properly abandoned on September 14, 2001. 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 18, 2007 and October 23, 2007. Water levels in the cleanouts for the NCT and SCT were measured during the 2007 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 2007 are shown in Table 4-1 – 2007 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 18, 2007, and Figure 4-2 – Overburden Groundwater Elevation Contour Map – October 23,

2007. A summary of water levels from 1999 to 2007 is provided in Table 4-2 – Cumulative Groundwater Elevations.

4.3 Groundwater Sampling

Groundwater samples were obtained during two groundwater sampling events conducted on April 18 and 19, 2007 and October 23 and 24, 2007, 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 2007 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 September 2007 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 shipped/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 any 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 2007 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 – 2007 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 2007. The original laboratory analytical data for 2007 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 2007 or October 2007 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 2007 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2007 sampling events;
- Chromium was detected during the April 2007 sampling event at a concentration of 13 ug/l, however below TOGS 1.1.1 guidance value of 25 ug/l; and
- Historically, VOCs and PCBs have never been detected at concentrations above there respective MDL.

MW-13A

- Analytical results for VOCs indicated no detectable concentrations for both 2007 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2007 sampling events;
- Lead and zinc were detected during the April sampling event at 13 ug/l and 24 ug/l, however below TOGS 1.1.1 guidance values of 25 ug/l and 2000 ug/l, respectively; and
- Historically, VOCs and PCBs have never been detected at concentrations above their respective MDL.

MW-14

- Analytical results for VOCs indicated no detectable concentrations for both 2007 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2007 sampling events;
- The metal concentrations from both 2007 groundwater sampling events were below TOGS 1.1.1 guidance values, and are comparable with historically identified concentrations; and

- Historically, VOCs and PCBs have never been detected at concentrations above there respective MDL.

MW-17

- Monitoring well had insufficient water to allow sample collection during both 2007 events.

MW-18

- Vinyl chloride (VC) was detected at a concentration of 7.5 ug/l and 7.4 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 2007 sampling event. All other VOCs were not detected at concentrations above MDLs;

- VC was detected at a concentration of 17 ug/l and 17 ug/l, in the primary and duplicate sample, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the October 2007 sampling event. All other VOCs were not detected at concentrations above MDLs;

- Lead was detected during the April 2007 sampling event at a concentration of 14 ug/l, however below TOGS 1.1.1 guidance value of 25 ug/l;

- Concentrations of metals were detected below TOGS 1.1.1 guidance values during October 2007 groundwater sampling events and are comparable with historically identified concentrations;

- Analytical results for PCBs indicated no detectable concentrations for both 2007 sampling events; and

- Historically, PCBs have never been detected at concentrations above the MDL.

4.5 Summary

An interpretation of the groundwater elevation measurements obtained during the April and October 2007 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 2007 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. The VC concentration at MW-18 demonstrates an overall increasing trend, however 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 MDL, of 0.05 ug/l, during the April or October 2007 sampling events.

4.6 Tables

TABLE 4-1
2007 GROUNDWATER ELEVATION SUMMARY

2007 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: 4/18/07						
MW-6R	462.69	10.52	10.51	465.47	3.69	461.78
MW-13A	467.30	11.07	10.91	469.23	2.14	467.09
MW-14	475.71	12.94	12.99	478.45	2.99	475.46
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.73	11.70	475.96	4.72	471.24
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.73	465.69
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	11.95	453.36

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation
Date Gauged: 10/23/07						
MW-6R	462.69	10.52	10.50	465.47	3.76	461.71
MW-13A	467.30	11.07	11.07	469.23	4.06	465.17
MW-14	475.71	12.86	12.80	478.37	6.95	471.42
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.78	11.78	475.96	6.71	469.25
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	12.80	NA	465.31	11.98	453.33

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

2007 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

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

2007 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. CQRLs shown for metals of concern are provided for guidance and may not always be achievable.

TABLE 4-4
2007 GROUNDWATER ANALYTICAL RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

April 2007 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	041807/041907
Date Sampled			4/18-19/2007	4/18-19/2007	4/18-19/2007	4/18-19/2007	4/18-19/2007	4/18-19/2007
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	**7.5**	**7.4**
Metals								
Chromium	10	50	<10	<10	<10	NS	<10	<10
Copper	10	200	<10	<10	<10	NS	<10	<10
Lead	10	25	13	13	<10	NS	14	14
Zinc	10	2,000	<10	24	<10	NS	<10	<10
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 2007 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	102307/102407
Date Sampled			10/23-24/2007	10/23-24/2007	10/23-24/2007	10/23-24/2007	10/23-24/2007	10/23-24/2007
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	**17**	**17**
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	<10	<10	<10	NS	<10	<10
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

2007 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	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-6R	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-13A	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<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
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
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
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
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
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
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
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
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
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
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	<0.10	<0.05	<0.10	<0.10	<0.10
MW-13A	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

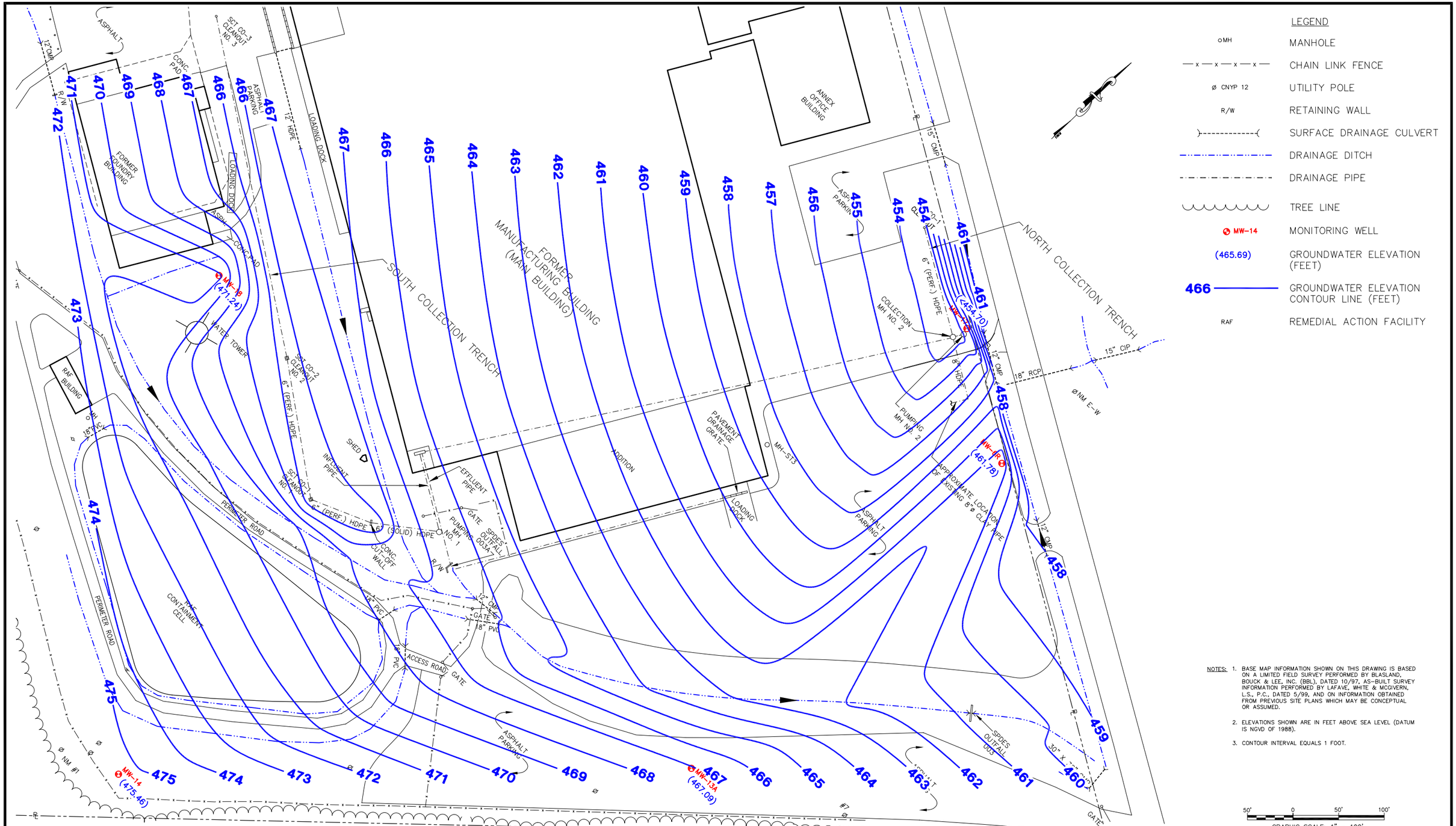
TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2007 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	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October
				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
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
MW-14	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<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
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
MW-14	Copper	ug/l	200	48	6B	<10	<10	<10	<10	<10	<10	<10	27	12	<10	16	<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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-18	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<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**
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
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
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
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
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
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
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
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
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
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
MW-18	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

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



X: CP-BASE
P: BL
2/22/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB01.DWG

synapse

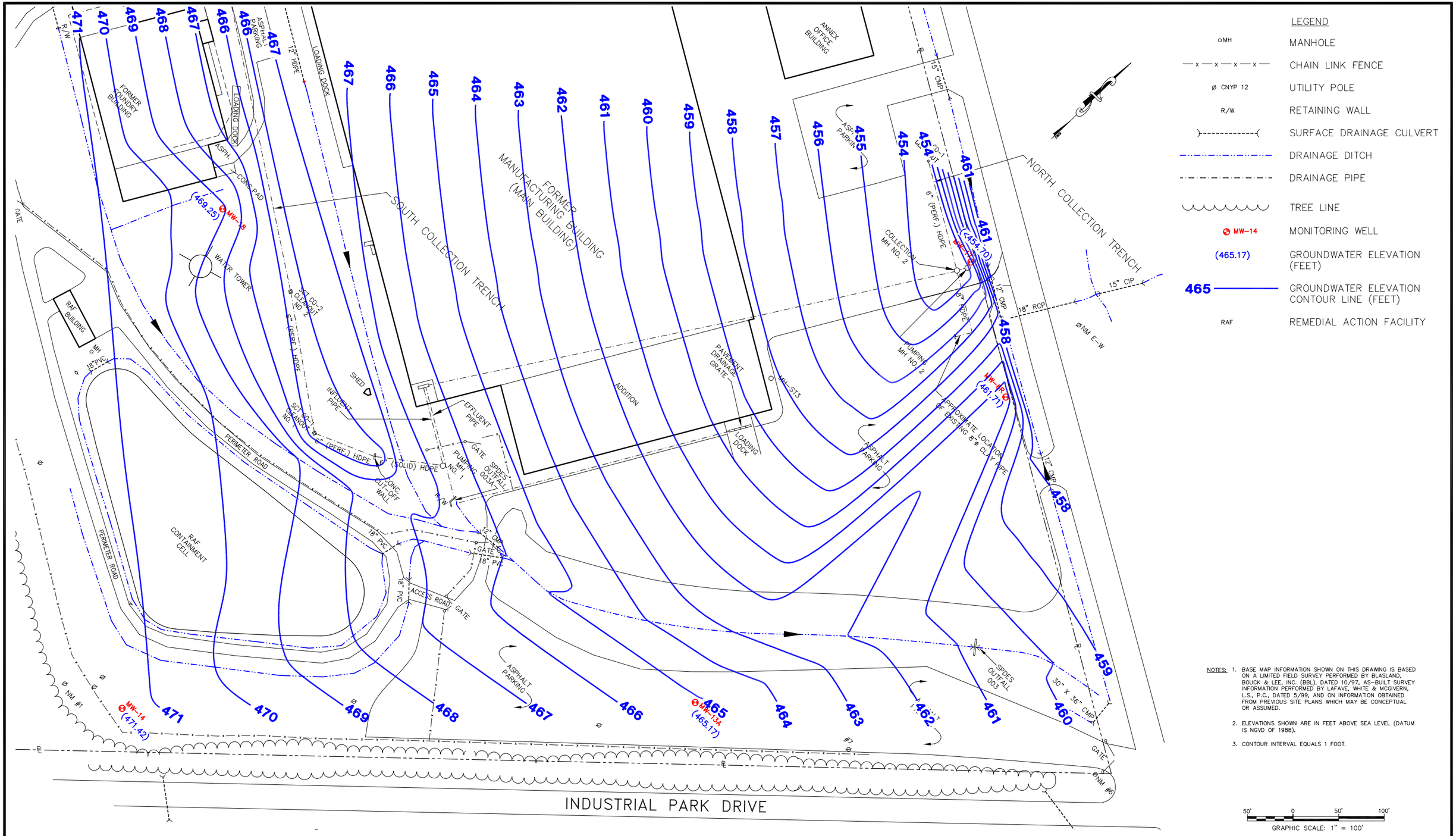
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP APRIL 18, 2007

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 4-1



NOTES:
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.

50' 0 50' 100'
GRAPHIC SCALE: 1" = 100'

X: CP-BASE
P: BL
3/13/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB02.DWG

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

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 23, 2007

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 4-2

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 scheduled and submitted for renewal on March 15, 2007, include with the renewal were proposed modifications.

The SPDES Permit is specific to activities conducted at the Property, including the Coolidge-owned Main Building, and permits water discharge 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, and Figure 5-3 – SPDES Outfall 003 Plan and Section. 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 Coolidge Utica 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).

Coolidge 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).

Coolidge 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; and
- Parking lots.

Coolidge 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 5-4 – 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 three 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.

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, and 003 has been prescribed by NYSDEC, as discussed in Section 5.3.1. 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	^{0}F	Once/2 weeks	Once/2 weeks	Once/2 weeks
Oil & Grease	mg/l	Monthly	Monthly	Monthly
Total Suspended Solids (TSS)	mg/l	Once/2 weeks	Once/2 weeks	Once/2 weeks
Total Residual Chloride	ug/l	NR	NR	Once/2 weeks
Phenolics	ug/l	Monthly	Monthly	Monthly
Antimony	ug/l	Quarterly	NR	NR
Chromium	ug/l	Semi-Annual	NR	NR
Copper	ug/l	Once/2 weeks	NR	NR
Fluoride	ug/l	Semi-Annual	Semi-Annual	NR
Lead	ug/l	Semi-Annual	NR	Semi-Annual
Zinc	ug/l	Semi-Annual	NR	Semi-Annual
Chloroform	ug/l	Once/2 weeks	NR	Once/2 weeks
cis 1,2-dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Trans 1,2- dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Trichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Vinyl chloride	ug/l	NR	NR	Once/2 weeks
PCBs	ng/l	NR	NR	Quarterly

Table notes:

S.U. = Standard Units
^{0}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 2007 routine monitoring events are summarized in Table 5-1 – Cumulative Summary of SPDES Monitoring Results. This data was also reduced and reported in monthly DMRs for submittal to NYSDEC. Results from routine monitoring events were compared to effluent compliance levels set in the Permit. DMRs were submitted to the NYSDEC Region 6, Division of Water representative, Richard Coriale, P.E., on. a monthly basis. There was one excursion of compliance levels for the above parameters in 2007 as follows.

- Oil and Grease was detected at 17ug/l at Outfall 001 during the July 2007 sampling event, which exceeded the permitted compliance levels of 15 ug/l. This was attributed to the access road and parking lot drainage to the catch basin, as part of the operation at the main building.

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 conducted 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.

5.3.3 Acute Toxicity Testing

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

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

According to the above Permit-specified schedule, effluent toxicity sampling was not scheduled to be conducted during 2006. However, given a 2005 failure rate of 25% for Outfall 002, the NYSDEC issued a June 6, 2006 letter requiring an additional year (four quarters) of Tier 1 acute toxicity sampling at Outfall 002.

The first effluent toxicity sampling event pursuant to the June 6, 2006 letter was conducted during the third quarter of 2006, and the second effluent toxicity sampling event was conducted during the fourth quarter of 2006. Both sampling events involved collection of two grab samples over a two day period (one per day). The samples were delivered to AquaTox Research, Inc., a NYSDEC-approved laboratory, located in Syracuse, New York, for acute toxicity analysis.

Based on the acute toxicity observed during the second quarter 2006 sampling event, the program was expanded in the first quarter 2007 to include collection of grab samples from manhole locations upstream from SPDES Outfall 002 as depicted on Figure 1 – Acute Effluent Toxicity Test Results 1st Quarter 2007. The 2007 first quarter sampling program commenced on March 26, 2007 and included the collection of grab samples from Outfall 002 and two upstream manhole locations, occurring on two consecutive days.

The results of the 2007 first quarter sampling event are attached, and a tabular summary of the 48-hour median lethal concentration (LC_{50}) results for the first quarter of 2007 are presented herein. It should be noted that significant portion, (90%) of the total flow monitored by UHC at permitted Outfall 002 and the immediate upstream manholes (MH-ST2A and MH-ST2B) are associated with the stormwater contributions from Coolidge Utica main building and its tenants.

First Quarter 2007 SPDES Outfall 002 Sample Results

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below and shown on Figure 1.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	25% Mortality in 100% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 during the 2007 1st quarter was below the Permit-specified survival rate of 95%.

1ST Upstream Manhole Results MH-ST2A (032607-1)

Sample Location	Test Organism	48-hour LC_{50}
032607-1	Ceriodaphnia dubia	100% Mortality in 6.25% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at the first upstream manhole location during the 2007 1st quarter was below the Permit-specified survival rate of 95%. The 100% cumulative mortality rate was observed at 6.25% dilution.

2nd Upstream Manhole Results MH-ST2B (032607-2)

Sample Location	Test Organism	48-hour LC_{50}
032607-2	Ceriodaphnia dubia	46.7% (38.4 – 56.6) in 100% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at the second upstream manhole location during the 2007 1st quarter was below the Permit-specified survival rate of 95%.

Based on the above results, varying levels of toxicity were observed at Outfall 002 and the upstream manhole locations of the Northern Stormwater system, with the most toxic sample being identified upstream at MH-ST2A – sample location 032607-1.

The results of the 2007 second quarter sampling event are attached, and a tabular summary of the 48-hour median lethal concentration (LC_{50}) results for the second quarter of 2007 are presented herein.

Second Quarter 2007 SPDES Outfall 002 Sample Results

Based on the acute toxicity observed during the first quarter 2007 sampling event, the program was expanded for the second quarter 2007 to include collection of grab samples from manhole locations upstream of the SPDES Outfall 002 sampling location as depicted on Figure 1 – Acute Effluent Toxicity Test Results 2nd Quarter 2007. The 2007 second quarter sampling program commenced on June 25, 2007 and included the collection of grab samples from Outfall 002 and two upstream manhole locations, occurring on two consecutive days. Attempts were made to conduct this sampling program during periods of stormwater runoff to best reflect actual effluent conditions.

It should be noted that a significant portion (90%) of the total flow monitored at Outfall 002 and the immediate upstream manholes (MH-ST2A and MH-ST2B) are associated with the stormwater contributions from the main building (owned by Coolidge Utica, LLC) and its tenants.

SPDES Outfall 002 Sample Results – Second Quarter 2007

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002 and the upstream manhole locations, are summarized below and shown on Figure 5-2.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	60% Mortality in 100% Sample

Sample Location	Test Organism	48-hour LC_{50}
062507-1	Ceriodaphnia dubia	60% Mortality in 100% Sample
Sample Location	**Test Organism**	**48-hour LC_{50}**
062507-2	Ceriodaphnia dubia	15% Mortality in 100% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 and the upstream manhole locations during the 2007 2nd quarter was below the Permit-specified survival rate of 95%.

Summarized in the table below are the 48-hr LC_{50} test results for each of the four quarterly sampling events conducted in 2006 and 2007.

Location	Test Organism	1st Quarter 48-hr LC_{50}	2nd Quarter 48-hr LC_{50}	3rd Quarter 48-hr LC_{50}	4th Quarter 48-hr LC_{50}
002	Ceriodaphnia dubia	42%	0%	25%	60%
MH-ST2A	Ceriodaphnia dubia	Not Sampled	Not Sampled	100%	60%
MH-ST2B	Ceriodaphnia dubia	Not Sampled	Not Sampled	46.7%	15%

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.

Data collected from the 2007 routine monitoring and sampling events indicate target constituents and field parameters have not been consistently identified, at any of the outfalls, above their respective enforceable compliance levels. Anomalous exceptions and or excursions from the enforceable compliance levels have been evaluated and not believed to be a consistent threat to the environment. As such, it is recommended that routine monitoring be continued as scheduled.

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. The toxicity sampling program was expanded in 2007 to sample two upstream locations to isolate and identify potential sources of toxicity associated with the Coolidge Utica building contribution to the northwestern stormwater system. 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), MH-ST2A and MH-ST2B receive contributions from the Coolidge Utica Main Building.

5.5 Tables

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 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			
Monitoring Date	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
Sampler ID			rsn	bhm	bhm	rrc	rsn	bhm	bhm	rsn	rrc	rsn	rrc/rsn	rsn	rsn	rrc	bhm	bhm	rrc
SPDES Outfall 001																			
Flow Rate	Monitor	gpd	HTW	3505	15801	2314	7530	152	185634	<152	152	35901	HTW	HTW	13987	2314	30835	35901	21739
Temperature	90	ºF		67	71		66		57			47		53		49	46		
pH	6.0-9.0	SU		7.6	7.3		7.1		7.0			6.7		7.0		6.6	7.9		
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		15			<4		<4		14	15		
	50 (wet)																		
cis-1,2-Dichloroethylene	10	ug/l		7.9	1		1		2.7			<1		3.6		<1	<1		
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1		<1		<1	<1		
Trichloroethylene	10	ug/l		1.1	<1		<1		<1			<1		<1		<1	<1		
Chloroform	46	ug/l		<1	<1		<1		<1			<1		<1		<1	<1		
Copper, Total	100	ug/l		73	34		55		50			20		25		11	24		
Oil & Grease	15	mg/l		<5			8.3					<5				<5			
Phenolics, Total	28	ug/l		<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	166744	34824	HTW	HTW	27001	88412	133097	27001
Temperature	90	ºF		70	72		70		52			45	47			49	46		
pH	6.0-9.0	SU		8.8	8.4		8.2		7.1			7.3	8.5			8.6	8.1		
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		<4			<4	<4			<4	<4		
	50 (wet)																		
Oil & Grease	15	mg/l		<5			11					<5				<5			
Phenolics, Total	24	ug/l		<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	29160
Temperature	90	ºF		64.2	70.3		65.5		51.3			44	58			35	44		
pH	6.0-9.0	SU		7.6	7.7		7.4		7.1			7.1	7.2			7.6	6.9		
Solids, Total Suspended	10 (dry)	mg/l		6	<4		<4		<4			<4	<4			<4	<4		
	50 (wet)																		
Chlorine, Total Residual	100	ug/l		80	70		70		85			20	80			50	50		
cis-1,2-Dichloroethylene	10	ug/l		<1	1.1		1.9		<1			4	<1			4.9	8.3		
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1		
Trichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1		
Vinyl Chloride	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1		
Chloroform	46	ug/l		<1	<1		<1		<1			<1	<1			<1	<1		
Oil & Grease	15	mg/l		<5			6.6					<5				<5			
Phenolics, Total	44	ug/l		<20			<20					<20				<20			
PCBs, Aroclors (Compliance)	300	ng/l							<50										
PCBs, Congeners (1668A Study)	NA	pg/l							7824										
Lead, Total	10	ug/l		<10															
Zinc, Total	120	ug/l		<10															

Notes:

1. ECL = Effluent Compliance Level.
2. gpd = gallons per day.
3. ºF = 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).
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '03				February '03				March '03					April '03				May '03				
Monitoring Date	Daily Max	Units	12/30/2002	1/10/2003	1/17/2003	1/24/2003	1/29/2003	2/3/2003	2/10/2003	2/18/2003	2/25/2003	3/7/2003	3/12/2003	3/19/2003	3/25/2003	4/4/2003	4/11/2003	4/16/2003	4/25/2003	5/2/2003	5/9/2003	5/15/2003	5/23/2003	5/29/2003
Sampler ID			bhm	bhm	bhm	bhm	rsn	rsn/sjm	sjm	rrc/sjm	sjm	rsn	bhm	rrc/pmf	rrc/bhm	rrc	pmf	rsn	rrc	rrc	sjm	bhm	sjm	bhm
SPDES Outfall 001																								
Flow Rate	Monitor	gpd	26116	HTW	152	No Flow	<152	6112	<152	<152	HTW	HTW	2160	HTW	HTW	2880 E	HTW	<1440 E	<1440 E	41320	<1440 E	928	<1440 E	743
Temperature	90	ºF			41	35		46		40			43		54			56	52				58	60
pH	6.0-9.0	SU			7.0	7.2		7.0		7.1			7.1		7.2			7.0	7.2				7.0	6.9
Solids, Total Suspended	10 (dry)	mg/l			10	**51**		<4		5			17		7			45	5				31	10
	50 (wet)																							
cis-1,2-Dichloroethylene	10	ug/l			1	<0.5		1		4			4		6			<1	<1				<1	<1
trans-1,2-Dichloroethylene	10	ug/l			<1	<0.5		<1		<1			<1		<1			<1	<1				<1	<1
Trichloroethylene	10	ug/l			<1	<0.5		<1		1			<1		2			<1	<1				<1	<1
Chloroform	46	ug/l			<1	<0.5		<1		<1			<1		<1			<1	<1				<1	<1
Copper, Total	100	ug/l			22	<10		53		21			16		<10			17	16				22	19
Oil & Grease	15	mg/l			<5			<5					<5					13						<5
Phenolics, Total	28	ug/l			<20			<20					<20					<20						<2
Antimony, Total	300	ug/l																<10						
Chromium, Total	51	ug/l																<10						
Fluoride, Total	2500	ug/l																540						
Lead, Total	13	ug/l																<10						
Zinc, Total	210	ug/l																99						
SPDES Outfall 002																								
Flow Rate	Monitor	gpd	22434	HTW	1582	No Flow	574	11643	HTW	10241	HTW	208	3966	HTW	HTW	2880 E	HTW	844	37	47168	101	364	1582	<250 E
Temperature	90	ºF			49	38		48		45			48		53			54	51				58	60
pH	6.0-9.0	SU			7.0	7.6		7.0		7.4			6.7		7.3			7.3	7.2				7.7	7.1
Solids, Total Suspended	10 (dry)	mg/l			<4	7		<4		<4			<4		11			7	11				5	10
	50 (wet)																							
Oil & Grease	15	mg/l			<5			<5					8					12						<5
Phenolics, Total	24	ug/l			<20			<20					<20					<20						<2
Fluoride, Total	1500	ug/l																460						
SPDES Outfall 003																								
Flow Rate	Monitor	gpd	53018	53018	25357	7200 E	7200 E	14400 E	48600	2880 E	13886	23328	18225	83314	97200	7200 E	144000 E	24300 E	291600 E	172800 E	20000 E	64800	15247	28800
Temperature	90	ºF		40		33		40		33			38		58			59	51				61	66
pH	6.0-9.0	SU		7.1		7.5		7.1		7.5			7.4		7.2			7.3	7.4				7.5	7.4
Solids, Total Suspended	10 (dry)	mg/l		<4		5		<4		<4			<4		<4			4	NA				<4	9
	50 (wet)																							
Chlorine, Total Residual	100	ug/l		70		60		70		47			50		60			10	60				30	40
cis-1,2-Dichloroethylene	10	ug/l		6		3		3		8			8		5			<1	2				<1	<1
trans-1,2-Dichloroethylene	10	ug/l		<1		<0.5		<1		<1			<1		<1			<1	<1				<1	<1
Trichloroethylene	10	ug/l		6		<0.5		<1		2			9		3			<1	<1				<1	<1
Vinyl Chloride	10	ug/l		<1		<0.5		<1		<1			<1		<1			<1	<1				<1	<1
Chloroform	46	ug/l		<1		<0.5		<1		<1			<1		<1			<1	<1				<1	<1
Oil & Grease	15	mg/l		<5				<5					<5					<5						<5
Phenolics, Total	44	ug/l		<20				<20					<2					<20						<2
PCBs, Aroclors (Compliance)	300	ng/l		<50														<50						
PCBs, Congeners (1668A Study)	NA	pg/l		2641														4268						
Lead, Total	10	ug/l																<10						
Zinc, Total	120	ug/l																<10						

Notes:

1. ECL = Effluent Compliance Level.
2. gpd = gallons per day.
3. ºF = 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).
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		June '03				July '03				August '03				September '03		October '03		November '03		December '03	
Monitoring Date	Daily Max	Units	6/4/2003	6/11/2003	6/18/2003	6/25/2003	7/2/2003	7/9/2003	7/17/2003	7/23/2003	8/1/2003	8/6/2003	8/13/2003	8/29/2003	9/8/2003	9/23/2003	10/8/2003	10/23/2003	11/5/2003	11/21/2003	12/5/2003	12/17/2003
Sampler ID			sjm	sjm	sjm	pmf/bhm	sjm	pmf/bhm	sjm	rsn	sjm/bhm	bhm	rrc	sjm	bhm	bhm	bhm	sjm	sjm	bhm	rsn	rsn
SPDES Outfall 001																						
Flow Rate	Monitor	gpd	<1440 E	4770	<1440 E	<1440 E	<1440 E	11676	<1440 E	12253	64800	4713	<1440 E	<1440 E	<1440 E	32112	626	<4114E	<4114 E	HTW	<4114 E	<20736 E
Temperature	90	ºF	60		61			66		69	66		68	74	69	65	68	51	55	54	44	43
pH	6.0-9.0	SU	7.0		7.4			7.3		7.2	6.6		6.8	7.2	7.4	7.0	6.8	6.8	7.4	6.5	6.8	6.8
Solids, Total Suspended	10 (dry)	mg/l	39		30			46		<4	<4		<4	30	15	<4	<4	8	6	7	21	<4
	50 (wet)																					
cis-1,2-Dichloroethylene	10	ug/l	<1		1			1		<1	<1		4	<1	<1	<1	<1	<1	<1	2	<1	<1
trans-1,2-Dichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1		<1			<1		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	<10		13			27		62	41		29	26	14	15	26	17	14	<10	12	14
Oil & Grease	15	mg/l			**22**			<5			<5				<5		<5			<5		**24**
Phenolics, Total	28	ug/l			<20			<20			<20				<20		<20			<20		<20
Antimony, Total	300	ug/l			<10									<10								<10
Chromium, Total	51	ug/l			<10																	<10
Fluoride, Total	2500	ug/l			380																	240
Lead, Total	13	ug/l			<10																	<10
Zinc, Total	210	ug/l			44																	38
SPDES Outfall 002																						
Flow Rate	Monitor	gpd	101	3247	1582	208	101	56	<1440 E	18366	126908	HTW	101	101	37	34824	208	208	11643	HTW	HTW	HTW
Temperature	90	ºF	61		66			68		70	66		68	74	69	66	68	53	56	60	48	47
pH	6.0-9.0	SU	7.3		7.2			6.5		7.0	6.6		6.8	7.8	7.2	6.9	7.0	7.2	7.4	6.6	6.9	6.7
Solids, Total Suspended	10 (dry)	mg/l	<4		<4			<4		<4	<4		9	15	<4	<4	<4	7	<4	4	<4	<4
	50 (wet)																					
Oil & Grease	15	mg/l			<5			<5			<5				<5		<5			9		**16**
Phenolics, Total	24	ug/l			<20			<20			<20				<20		<20			<20		<20
Fluoride, Total	1500	ug/l			150																	200
SPDES Outfall 003																						
Flow Rate	Monitor	gpd	21600	18514	17280	15549	6480	18783	11782	74057	94255	47127	14811	28800	9969	103680	13642	15247	25920	43200	25920	37029
Temperature	90	ºF	64		64			67		70	65		72	73	71	64	63	45	52	48	35	42
pH	6.0-9.0	SU	7.5		7.6			7.2		7.1	7.3		7.4	7.7	7.8	7.2	7.6	7.6	7.1	7.1	7.3	6.8
Solids, Total Suspended	10 (dry)	mg/l	<4		<4			<4		<4	<4		<4	<4	<4	<4	<4	<4	<4	4	4	<4
	50 (wet)																					
Chlorine, Total Residual	100	ug/l	50		50			50		60	70		50	50	50	80	50	30	50	90	30	50
cis-1,2-Dichloroethylene	10	ug/l	<1		<1			<1		2	<1		<1	<1	<1	1	<1	<1	2	3	10	6
trans-1,2-Dichloroethylene	10	ug/l	<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	2	8	1
Vinyl Chloride	10	ug/l	<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
Oil & Grease	15	mg/l			6			<5			<5				<5		<5			8		<5
Phenolics, Total	44	ug/l			<20			<20			<20				<20		<20			<20		<20
PCBs, Aroclors (Compliance)	300	ng/l			<50								<50									<50
PCBs, Congeners (1668A Study)	NA	pg/l			6283								4546									3449
Lead, Total	10	ug/l			<10																	<10
Zinc, Total	120	ug/l			<10																	11

Notes:

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4. SU = Standard Units.
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6. ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb).
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '04			February '04		March '04		April '04		May '04		June '04	
Monitoring Date	Daily Max	Units	12/31/2003	1/13/2004	1/30/2004	2/12/2004	2/27/2004	3/10/2004	3/24/2004	4/7/2004	4/22/2004	5/6/2004	5/18/2004	6/1/2004	6/18/2004
Sampler ID			sjm	sjm	rsn	sjm	bhm	rsn	sjm	rsn	rsn	rsn	rsn	rsn	rsn
SPDES Outfall 001															
Flow Rate	Monitor	gpd	3600 E	5760	4114	770 E	626	1775 E	2880E	2880E	5722E	3497E	1377E	3292E	4770E
Temperature	90	ºF	46	46	42	44	40	44	46	44	58	53	66	64	66
pH	6.0-9.0	SU	6.3	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	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	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
Trichloroethylene	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
Copper, Total	100	ug/l	18	33	20	25	17	25	32	28	35	32	25	29	30
Oil & Grease	15	mg/l	<5				<5	<5		<5			<5		<5
Phenolics, Total	28	ug/l	<20				<20	<20		<20			<20		<20
Antimony, Total	300	ug/l						<10							
Chromium, Total	51	ug/l													
Fluoride, Total	2500	ug/l													
Lead, Total	13	ug/l													
Zinc, Total	210	ug/l													
SPDES Outfall 002															
Flow Rate	Monitor	gpd	28800 E	43871	32084	5672	1178	3247	8947	8947	3966	2058	208	2058	3966E
Temperature	90	ºF	49	41	36	46	43	50	49	51	57	54	68	66	69
pH	6.0-9.0	SU	6.3	7.5	7.6	6.9	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	<4	<4	6	<4	8	<4	<4	<4	<4	<4
	50 (wet)														
Oil & Grease	15	mg/l	<5				<5	<5		<5			<5		6
Phenolics, Total	24	ug/l	<20				<20	<20		<20			<20		<20
Fluoride, Total	1500	ug/l													
SPDES Outfall 003															
Flow Rate	Monitor	gpd	32400	47127	21600	8361	5400	51840	32400	25920	51840	39273	10327	33188	33010E
Temperature	90	ºF	43	34	33	37	36	48	51	45	60	56	75	71	73
pH	6.0-9.0	SU	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	17	5	<4	<4	<4	<4	<4	<4	<4
	50 (wet)														
Chlorine, Total Residual	100	ug/l	50	30	20	30	40	50	50	30	60	30	10	30	20
cis-1,2-Dichloroethylene	10	ug/l	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
Trichloroethylene	10	ug/l	3	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		<5			<5		<5
Phenolics, Total	44	ug/l	<20				<20	<20		<20			<20		<20
PCBs, Aroclors (Compliance)	300	ng/l						<50							
PCBs, Congeners (1668A Study)	NA	pg/l													
Lead, Total	10	ug/l													
Zinc, Total	120	ug/l													

Notes:

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5. mg/l = milligrams per liter, approximately equivalent to ppm.
6. ug/l = micrograms per liter, approximately equivalent to ppb.
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		July '04			August '04		September '04			October '04		November '04		December '04	
Monitoring Date	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
Sampler ID			rrc	rrc	rrc	sjm	rrc	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
Temperature	90	ºF	19	67	71	70	64	68	68		62	56	55	49	51	48
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
Solids, Total Suspended	10 (dry)	mg/l	10	<4	6	<4	5	<4	<4		<4	<4	6	<4	<4	14
	50 (wet)															
cis-1,2-Dichloroethylene	10	ug/l	<1	1	4	<1	<1	2	<1		<1	<1	<1	1	2.2	1.4
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	<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
Copper, Total	100	ug/l	50	34	43	29	17	41	38		<10	20	62	**420**	<10	<10
Oil & Grease	15	mg/l	<5			<5	9	<5			<5	**26**	<5	<5		<5
Phenolics, Total	28	ug/l	<20			<20	<20	<20			<20	<20	<20	<20		<20
Antimony, Total	300	ug/l		<10			<10	13				<10		<10		
Chromium, Total	51	ug/l					42							<10		
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
Temperature	90	ºF	19	68	69	72	64	67	71		66	57	57	55	54	49
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
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	9.0		4.0	<4	<4	<4	<4	<4
	50 (wet)															
Oil & Grease	15	mg/l	<5			<5	10	<5			<5	**45**	6	<5		<5
Phenolics, Total	24	ug/l	<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
Temperature	90	ºF	25	75	71	70	70	66		69	61	50	51	42	48	37
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
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4		<4	<4	<4	12	8	<4	<4
	50 (wet)															
Chlorine, Total Residual	100	ug/l	30	40	30	60	65	30		40	60	50	20	70	50	40
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	1	<1	<1		<1	<1	<1	<1	<1	2.1	3.8
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	<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
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	<5			<5	<5	5	<5		<5
Phenolics, Total	44	ug/l	<20			<20	**79**	<20			<20	<20	<20	<20		<20
PCBs, Aroclors (Compliance)	300	ng/l		<50			<50					<50		<50		<50
PCBs, Congeners (1668A Study)	NA	pg/l		4134								2137				2761
Lead, Total	10	ug/l					<10							<10		
Zinc, Total	120	ug/l					<10							<10		

Notes:

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6. ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb).
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '05			February '05		March '05		April '05		May '05		June '05	
Monitoring Date	Daily Max	Units	12/28/2004	1/12-13/05	1/26 - 27/2005	2/9/2005	2/22/2005	3/7/2005	3/22/2005	4/6/2005	4/20/2005	5/4/2005	5/20/2005	6/2/2005	6/14/2005
Sampler ID			sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	rrc	rrc	rrc	rrc
SPDES Outfall 001															
Flow Rate	Monitor	gpd	626E	9026	4770	152	21739	19677	HTW	HTW	152	1196	152	152	38566
Temperature	90	ºF	41	41	43	45	47	49	42	47	55	55	58	60	70
pH	6.0-9.0	SU	7.4	6.96	7.1	7.7	7.0	8.0	6.6	6.6	7.8	7.7	7.7	6.8	6.8
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	4	<4	<4	<4	5	5	5.5	10	<4	10	27	42	<4
cis-1,2-Dichloroethylene	10	ug/l	<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
Trichloroethylene	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
Copper, Total	100	ug/l	10	<10	20	29	78	31	<10	<10	83	25	<10	<10	69
Oil & Grease	15	mg/l		<5		**23**		<5		<5		<5		6.4	
Phenolics, Total	28	ug/l		<20		21		<20		<20		36		**100**	
Antimony, Total	300	ug/l				<10						<10			
Chromium, Total	51	ug/l										<10			
Fluoride, Total	2500	ug/l										310			
Lead, Total	13	ug/l										<10			
Zinc, Total	210	ug/l										76			
SPDES Outfall 002															
Flow Rate	Monitor	gpd	364	24654	6665	13153	24654	120894	HTW	HTW	364	1582	364	7	57935
Temperature	90	ºF	46	47	45	45	48	49	41	48	53	55	56	65	71
pH	6.0-9.0	SU	6.5	7.2	7.1	7.1	7.5	7.1	6.9	6.9	7.9	7.8	7.9	6.7	6.7
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	5	<4	<4	4.5	<4	8.5	<4
Oil & Grease	15	mg/l		<5		<5		6.8		<5		<5		5	
Phenolics, Total	24	ug/l		<20		<20		<20		<20		29		**76**	
Fluoride, Total	1500	ug/l										230			
SPDES Outfall 003															
Flow Rate	Monitor	gpd	15247	32400	28800	32400	43200	28880	172800	24300	6480	7783	3020	3744	64800
Temperature	90	ºF	35	37	36	38	35	45	44	52	60	61	64	80	71
pH	6.0-9.0	SU	6.5	7.6	6.8	7.3	7.4	7.6	7.3	7.6	8.3	7.9	8.1	7.2	6.9
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4 (sampled 1/27)	<4	4.5	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	20	30	20	40	40	90	80	40	50	50	60	30	80
cis-1,2-Dichloroethylene	10	ug/l	<1	1.2	<1	2.2	7.5	5.2	6.4	<1	<1	<1	<1	<1	1.7
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	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l		<5		9		<5		<5		<5		5	
Phenolics, Total	44	ug/l		<20		<20		<20		<20		27		40	
PCBs, Aroclors (Compliance)	300	ng/l					<50								
PCBs, Congeners (1668A Study)	NA	pg/l					3765								
Lead, Total	10	ug/l										<10			
Zinc, Total	120	ug/l										14			

Notes:

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7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

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2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		July '05			August '05		September '05		October '05		November '05		December '05		
Monitoring Date	Daily Max	Units	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			rrc	sm	bhm	sjm	sjm	sjm	rrc	sjm	sjm	sjm	sjm	sjm	sjm	rrc
SPDES Outfall 001																
Flow Rate	Monitor	gpd	3505	4770	40	80	80	152	152	0	0	50	28432	3505	0	125
Temperature	90	ºF	67	72	72	73	69	67	70	65	60	53	49	53	43	44
pH	6.0-9.0	SU	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	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	2
trans-1,2-Dichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	<10	50	14	18	33	<10	35	<10	<10	<10	31	22	13	20
Oil & Grease	15	mg/l	<5			<5		<5		<5		<5		5.8		
Phenolics, Total	28	ug/l	<20			<20		<20		<20		<2		4		
Antimony, Total	300	ug/l				<10						<10				
Chromium, Total	51	ug/l										<10				
Fluoride, Total	2500	ug/l										580				
Lead, Total	13	ug/l										<10				
Zinc, Total	210	ug/l										29				
SPDES Outfall 002																
Flow Rate	Monitor	gpd	37	2612	5672	37	37	574	0	0	0	364	13153	364	0	844
Temperature	90	ºF	65	71	69	73	68	67	68	65	61	60	49	55	43	48
pH	6.0-9.0	SU	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	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		6.5		
Phenolics, Total	24	ug/l	<20			<20		<20		<20		<2		2.6		
Fluoride, Total	1500	ug/l										380				
SPDES Outfall 003																
Flow Rate	Monitor	gpd	17280	2880	1100	2880	2520	6171	1728	9600	12342	17280	29950	21600	34560	21600
Temperature	90	ºF	76	77	73	80	68	65	72	64	54	55	46	53	42	47
pH	6.0-9.0	SU	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	4.5	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)															
Chlorine, Total Residual	100	ug/l	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	<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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<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		
Phenolics, Total	44	ug/l	<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				
Zinc, Total	120	ug/l										<10				

Notes:

1. ECL = Effluent Compliance Level.
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4. SU = Standard Units.
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6. ug/l = micrograms per liter, approximately equivalent to ppb.
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 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		
Monitoring Date	Daily Max	Units	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
Sampler ID			rrc	rrc	rrc	rrc	rrc	bhm	rrc	rrc	BHM	RRC	rrc	rrc	rrc
SPDES Outfall 001															
Flow Rate	Monitor	gpd	0	0	0	152	152	4770	47076	152	152	152	152	3505	10600
Temperature	90	ºF	44	44	44	40	41	50	46	51	57	55	58	60	66
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
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	12	5	24	26	48	6.5	21	33	25	7.4	45	40	<4
cis-1,2-Dichloroethylene	10	ug/l	<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
Trichloroethylene	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	1.9	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	15	28	10	11	11	18	18	<10	<10	45	<10	<10	23
Oil & Grease	15	mg/l		<5	<5		<5		5.1		<5		<5		
Phenolics, Total	28	ug/l		4.3	6.7		3.4		2.2		5.5		2.1		
Antimony, Total	300	ug/l							<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	0	0	0	574	364	0	10221	364	37	364	101	364	0
Temperature	90	ºF	43	42	44	44	45	49	50	52	57	54	58	60	66
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
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	4	5.5	<4	<4	13	<4
Oil & Grease	15	mg/l		<5	<5		<5		<5		<5		<5		
Phenolics, Total	24	ug/l		5.8	5.7		3.2		3.3		6.1		2.9		
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
Temperature	90	ºF	47	42	43	34	34	48	44	48	61	48	58	70	67
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
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	55	40	50	40	40	80	40	35	40	35	40	35	40
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
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	<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
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		<5		<5		<5		
Phenolics, Total	44	ug/l		3.9	4.4		2.2		2.7		4.4		3.9		
PCBs, Aroclors (Compliance)	300	ng/l							<50				<100		
PCBs, Congeners (1668A Study)	NA	pg/l											na		
Lead, Total	10	ug/l											10		
Zinc, Total	120	ug/l											<10		

Notes:

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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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		July '06		August '06		September '06		October '06		November '06			December '06	
Monitoring Date	Daily Max	Units	7/11/2006	7/26/2006	8/10/2006	8/22/2006	9/7/2006	9/20/2006	10/5/2006	10/17/2006	11/3/2006	11/16/2006	11/30/2006	12/14/2006	12/29/2006
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001															
Flow Rate	Monitor	gpd	152	152	152	152	152	3505	152	19677	15801	0	152	152	0
Temperature	90	ºF	65	68	68	69	65	64	62	55	54	54	50	49	45
pH	6.0-9.0	SU	6.94	7.2	7.14	6.64	6.6	7.35	7.8	8.3	7.4	7.3	7.4	7.4	7.3
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	31	38	4	21	<4	7	<4	27	<4	30	6.5	18
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<2	<1	<1	2.1	<1	<1	1
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1
Chloroform	46	ug/l	<1	<1	<1	1.2	<1	<1	<2	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	59	<10	<10	<10	<10	<10	25	37	27	15	<10	25	15
Oil & Grease	15	mg/l	<5		<5		<5		<5		<5	<5		<5	
Phenolics, Total	28	ug/l	2.1		<2		<2		2		<2	<2		<2	
Antimony, Total	300	ug/l	<10								11				
Chromium, Total	51	ug/l									12				
Fluoride, Total	2500	ug/l									460				
Lead, Total	13	ug/l									**22**				
Zinc, Total	210	ug/l									35				
SPDES Outfall 002															
Flow Rate	Monitor	gpd	101	101	844	208	7	3966	101	16512	4773	0	208	208	0
Temperature	90	ºF	65	67	68	69	67	64	65	52	60		58	55	53
pH	6.0-9.0	SU	7.07	6.98	6.97	7.24	6.98	7.93	7.3	8.2	7.6	7.6	7.6	7.6	7.9
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	11	<4	<4	<4	<4	<4	<4	<4	<4
Oil & Grease	15	mg/l	<5		<5		<5		<5		<5	<5		<5	
Phenolics, Total	24	ug/l	2.9		<2		<2		2		<2	<2		<2	
Fluoride, Total	1500	ug/l									260				
SPDES Outfall 003															
Flow Rate	Monitor	gpd	43200	32400	33600	100800	25200	75600	35576	302400	60480	35576	50400	37800	58154
Temperature	90	ºF	71	68	69	69	69	69	61	51	47	55	55	47	42
pH	6.0-9.0	SU	6.8	7.16	7.24	7.15	7.03	7.47	7.3	7.7	7.7	7.7	7.7	7.6	8
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	40	45	30	40	35	45	40	45	35	45	40	40	45
cis-1,2-Dichloroethylene	10	ug/l	<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
Trichloroethylene	10	ug/l	<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	<2	<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		<5		<5	5.9		<5	
Phenolics, Total	44	ug/l	3		<2		<2		<2		<2	<2		3	
PCBs, Aroclors (Compliance)	300	ng/l	<100								<50				
PCBs, Congeners (1668A Study)	NA	pg/l	na												
Lead, Total	10	ug/l									**17**				
Zinc, Total	120	ug/l									14				

Notes:

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6. ug/l = micrograms per liter, approximately equivalent to ppb.
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '07		February '07		March '07		April '07		May '07			June '07		July '07	
Monitoring Date	Daily Max	Units	1/10/2007	1/26/2007	2/9/2007	22/21/07	3/9/2007	3/23/2007	4/3/2007	4/18/2007	5/1/2007	5/15/2007	5/31/2007	6/12/2007	6/26/2007	7/12/2007	7/26/2007
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001																	
Flow Rate	Monitor	gpd	0	70199	3505	21739	0	0	0	0	152	152	152	0	0	0	0
Temperature	90	ºF	46	41	41	43	38	40	45	44	50	53	57	60	64	66	66
pH	6.0-9.0	SU	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
Solids, Total Suspended	10 (dry)	mg/l	7	27	28	<4	29	6	27	14	31	25	34	39	31	<4	31
	50 (wet)																
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	2	<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
Trichloroethylene	10	ug/l	<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
Copper, Total	100	ug/l	<10	14	<10	29	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oil & Grease	15	mg/l	<5		6		6		6		<5			<5		**17**	
Phenolics, Total	28	ug/l	<2		2.6		<50		<20		<3			<3		<3	<3
Antimony, Total	300	ug/l							<10					14			<10
Chromium, Total	51	ug/l												11			
Fluoride, Total	2500	ug/l												365			
Lead, Total	13	ug/l												13			
Zinc, Total	210	ug/l												31			
SPDES Outfall 002																	
Flow Rate	Monitor	gpd	0	13153	16512	13153	0	0	0	0	208	37	208	208	0	574	3966
Temperature	90	ºF	52	42	46	46	38	47	49	48	51	53	56	59	65	76	73
pH	6.0-9.0	SU	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
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	6	14	7	<4	26
	50 (wet)																
Oil & Grease	15	mg/l	<5		6		11		7.1		<6			<5		5	
Phenolics, Total	24	ug/l	<2		4		<50		<20		<3			<3		<3	
Fluoride, Total	1500	ug/l															
SPDES Outfall 003																	
Flow Rate	Monitor	gpd	37800	47999	60480	33600	43199	151200	151200	151200	75600	4319	4319	86399	25620	30240	30240
Temperature	90	ºF	39	34	35	35	35	41	53	46	56	69	70	74	71	76	73
pH	6.0-9.0	SU	7.4	8.4	8	8.1	8.1	8	8	8	8	8.3	7.9	8	8	7.9	7.4
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	17	27	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																
Chlorine, Total Residual	100	ug/l	40	50	45	40	40	45	40	45	50	40	45	40	40	40	40
cis-1,2-Dichloroethylene	10	ug/l	<1	2	<1	<1	1.8	4.2	<1	1.6	<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
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	10	ug/l	<2	<1	<2	<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	<1	<1
Oil & Grease	15	mg/l	<5		<6		<5		7.4		<5			<5		<5	
Phenolics, Total	44	ug/l	<2		<2		<50		<20		<3			<3		<3	
PCBs, Aroclors (Compliance)	300	ng/l							<35						<100		
PCBs, Congeners (1668A Study)	NA	pg/l															
Lead, Total	10	ug/l												13			
Zinc, Total	120	ug/l												11			

Notes:

1. ECL = Effluent Compliance Level.
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3. ºF = Degrees Fahrenheit.
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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.

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

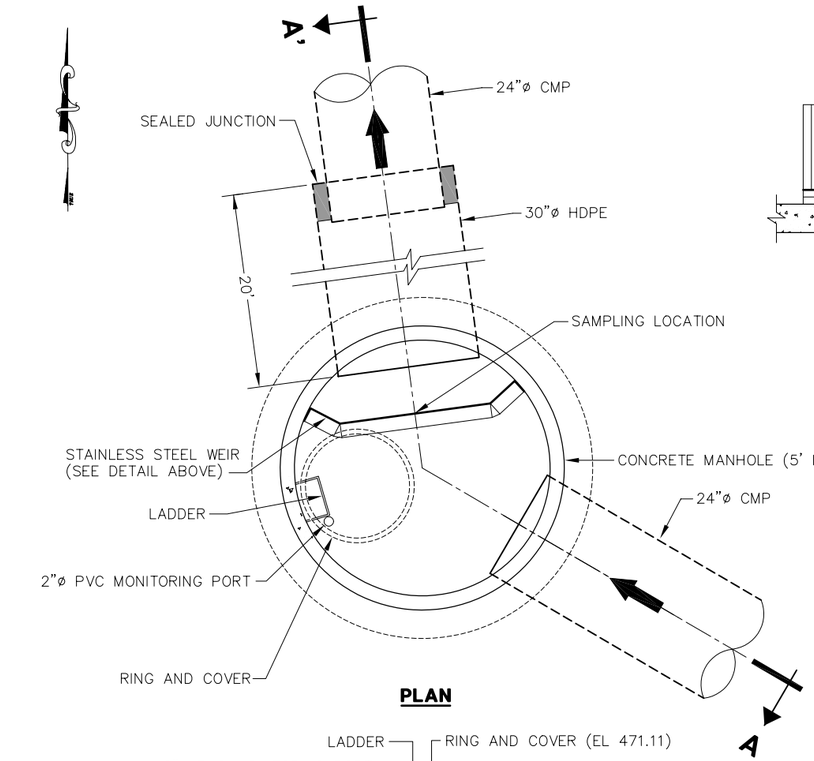
2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		August '07		September '07		October '07		November '07			December '07	
Monitoring Date	Daily Max	Units	8/10/2007	8/23/2007	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
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001													
Flow Rate	Monitor	gpd	19677	152	0	152	152	3505	152	0	0	0	0
Temperature	90	ºF	69	69	69	70	67	64	58	53	63	48	45
pH	6.0-9.0	SU	6.7	7.7	7.3	7.2	7.3	7.3	7.4	7.4	7.3	7.4	7.9
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	11	5	<4	<4	20	15	<4	<4	<4	<4
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	1.7	<1	5.2	<1
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<1
Trichloroethylene	10	ug/l	<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
Copper, Total	100	ug/l	59	38	<10	54	18	<10	42	22	12	32	37
Oil & Grease	15	mg/l	6			<5	5.2		<5	<5			<5
Phenolics, Total	28	ug/l	<2			<3	4.1		<3	<3			<3
Antimony, Total	300	ug/l					<10			<10			
Chromium, Total	51	ug/l								<10			
Fluoride, Total	2500	ug/l								220			
Lead, Total	13	ug/l								<10			
Zinc, Total	210	ug/l								29			
SPDES Outfall 002													
Flow Rate	Monitor	gpd	844	208	101	101	208	364	7	0	0	0	0
Temperature	90	ºF	70	69	67	67	66	66	61	55	43	50	45
pH	6.0-9.0	SU	7.2	7.2	7.4	7.3	7.5	7.5	7.7	7.6	7.7	7.6	7.6
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	4	5	6.5	5	6	<4	<4	<4	<4
Oil & Grease	15	mg/l	<5			<5	<5		<5	<5			5
Phenolics, Total	24	ug/l	<2			<3	<3		<3	<3			<3
Fluoride, Total	1500	ug/l								<100			
SPDES Outfall 003													
Flow Rate	Monitor	gpd	100800	20160	5760	75600	33600	23261	37800	151200	60480	75600	302400
Temperature	90	ºF	68	69	67	69	65	62	53	47	43	42	43
pH	6.0-9.0	SU	7.3	7.2	7.7	7.2	7.6	7.6	7.7	7.7	7.8	7.9	7.6
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	50	55	50	45	40	45	40	40	45	40	45
cis-1,2-Dichloroethylene	10	ug/l	<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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l	5.4			<5	<5		<5	<5			<5
Phenolics, Total	44	ug/l	<2			<3	<3		<3	<3			<3
PCBs, Aroclors (Compliance)	300	ng/l								<100			
PCBs, Congeners (1668A Study)	NA	pg/l											
Lead, Total	10	ug/l								<10			
Zinc, Total	120	ug/l								<10			

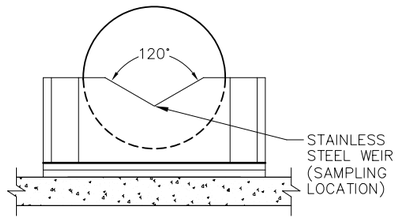
Notes:

1. ECL = Effluent Compliance Level.
2. gpd = gallons per day.
3. ºF = Degrees Fahrenheit.
4. SU = Standard Units.
5. mg/l = milligrams per liter, approximately equivalent to ppm.
6. ug/l = micrograms per liter, approximately equivalent to ppb.
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
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.

5.6 Figures

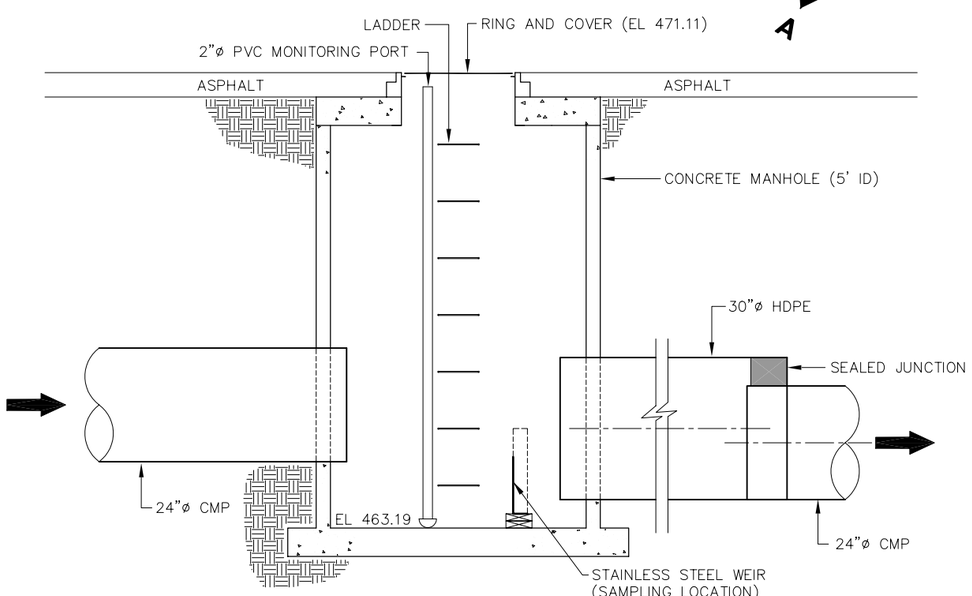


PLAN



WEIR DETAIL

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



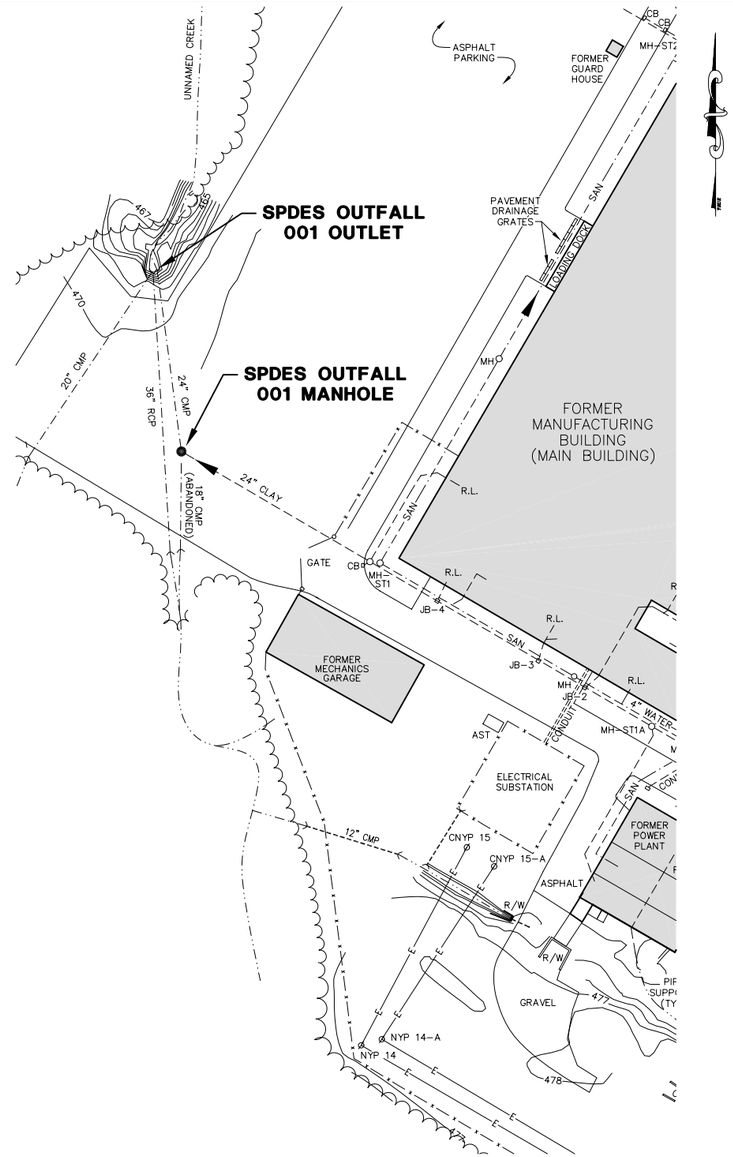
SECTION A-A'

SPDES OUTFALL 001 MANHOLE PLAN AND SECTION

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

0 2' 5'

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



MANHOLE LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: BL
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB06.DWG

synapse

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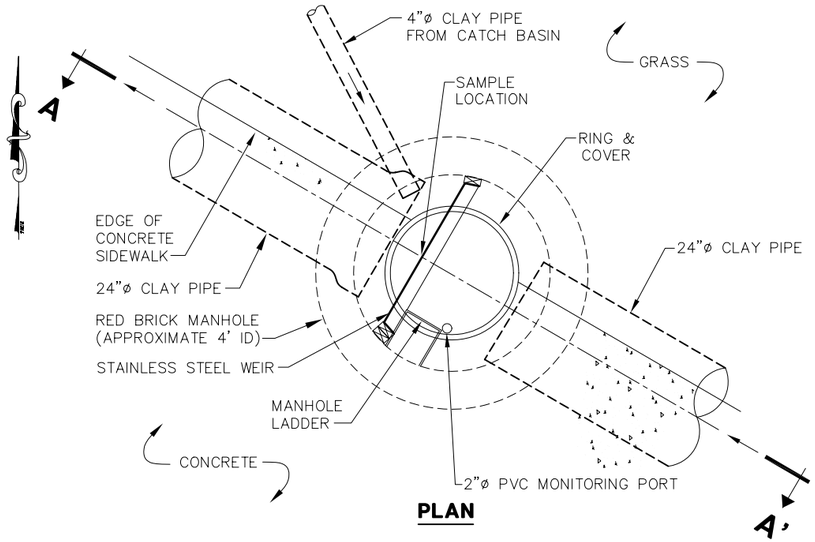
SPDES OUTFALL 001 MANHOLE PLAN AND SECTION

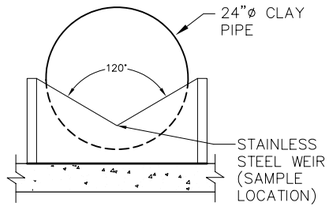
PROJECT NO.: DANA 01-04

DATE: MARCH 2008

FIGURE NO.: 5-1

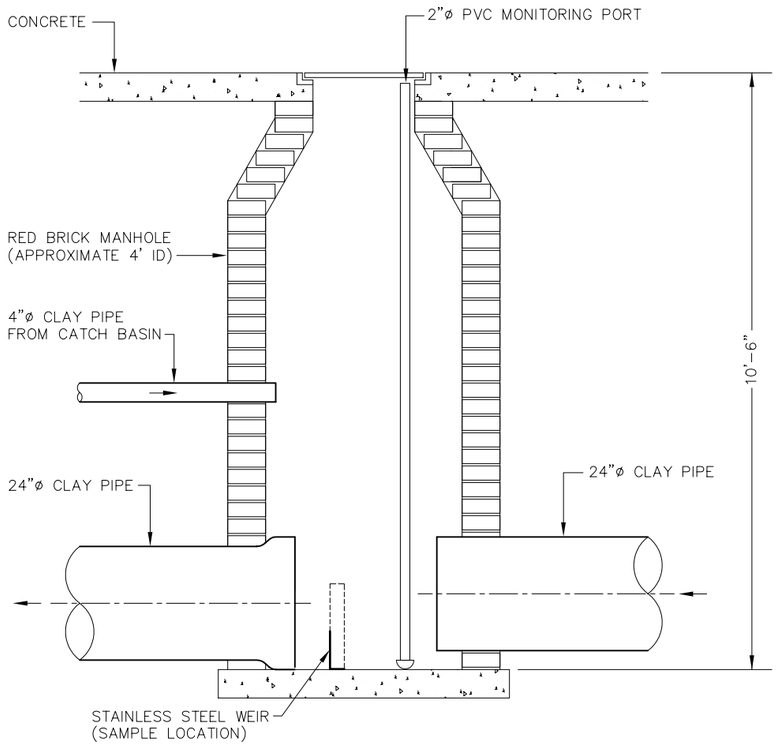


PLAN



WEIR DETAIL

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



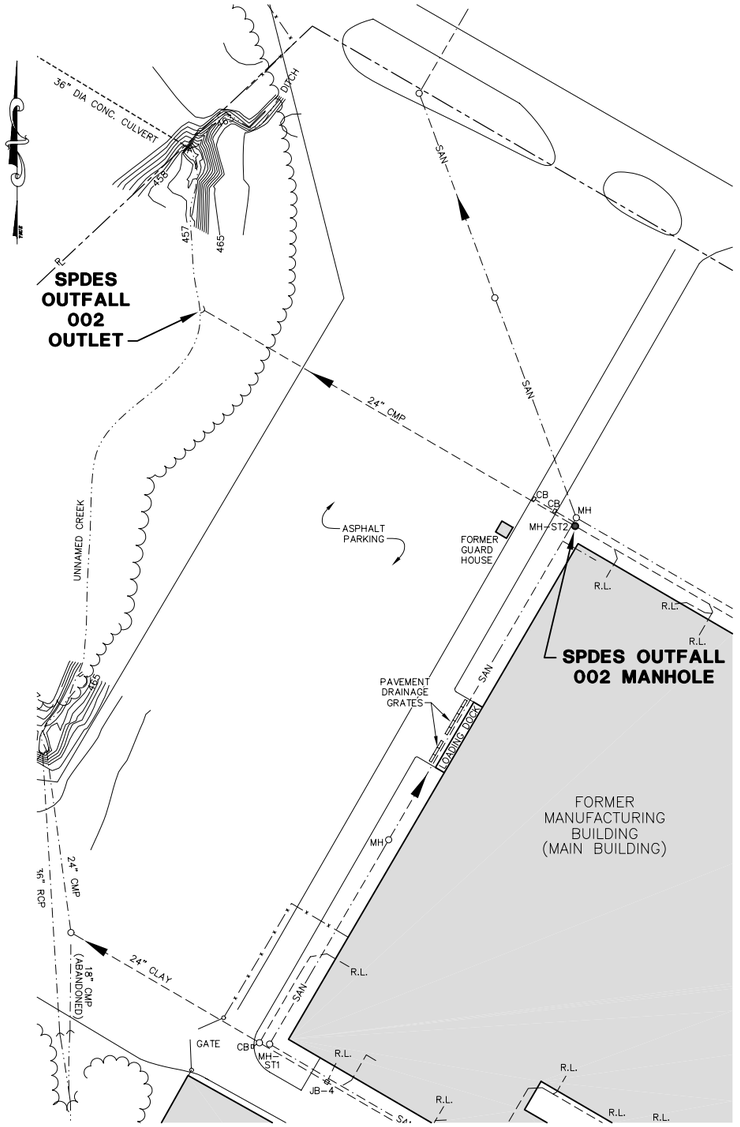
SECTION A-A'

SPDES OUTFALL 002 MANHOLE PLAN AND SECTION

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

0 2' 5'

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



MANHOLE LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB07.DWG

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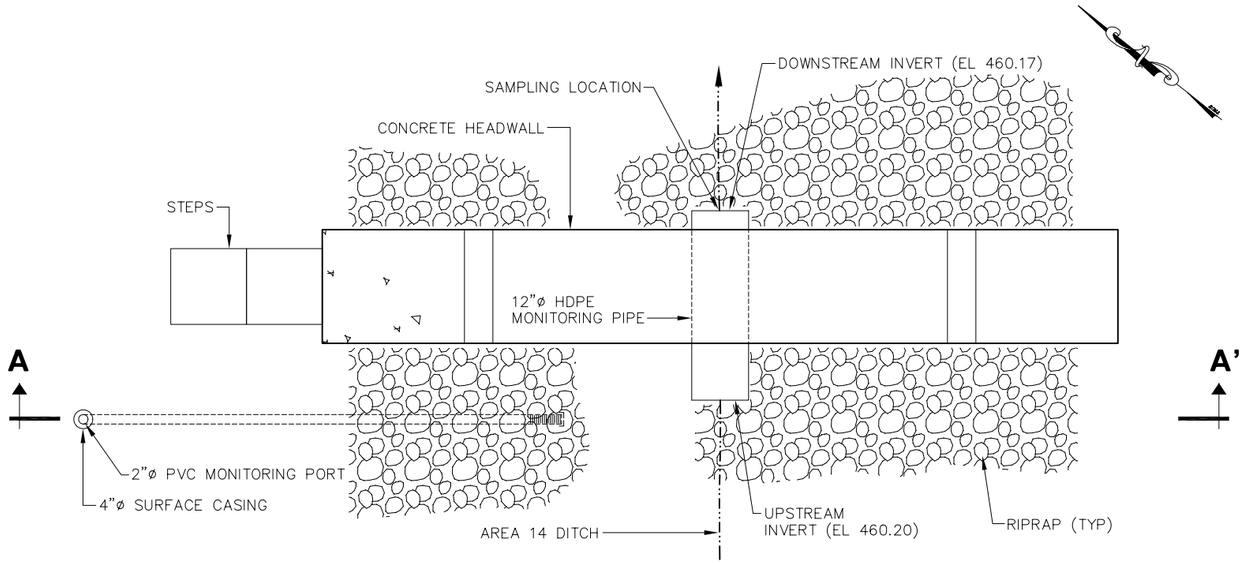
SPDES OUTFALL 002 MANHOLE PLAN AND SECTION

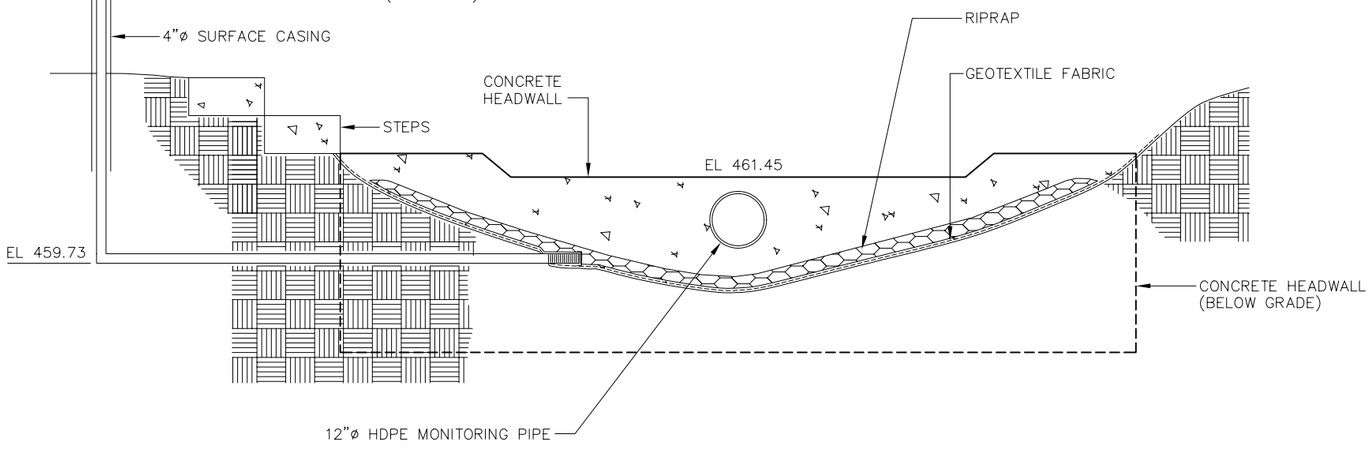
PROJECT NO.: DANA 01-04

DATE: MARCH 2008

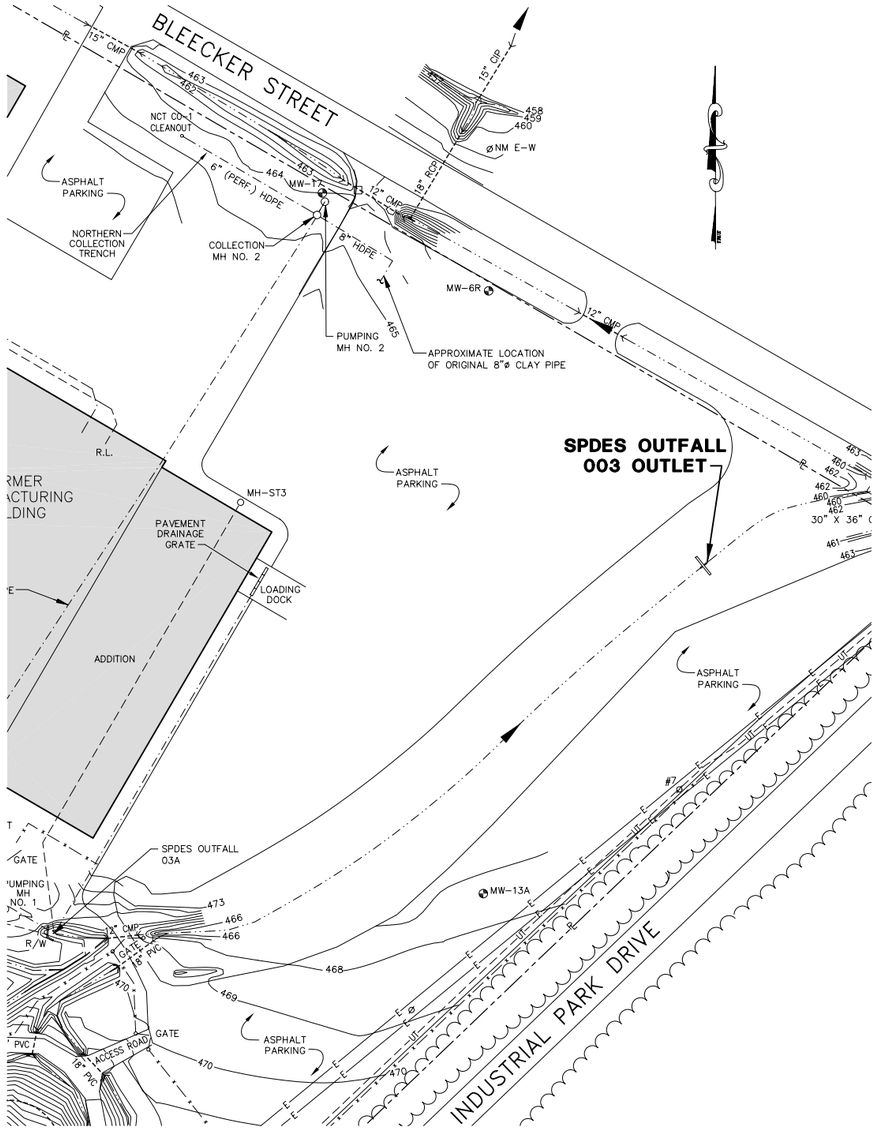
FIGURE NO.: **5-2**



PLAN



SECTION A-A'



OUTLET LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

SPDES OUTFALL 003 OUTLET PLAN AND SECTION

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

0 2' 5'

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

X: CP-BASE
P: D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB08.DWG

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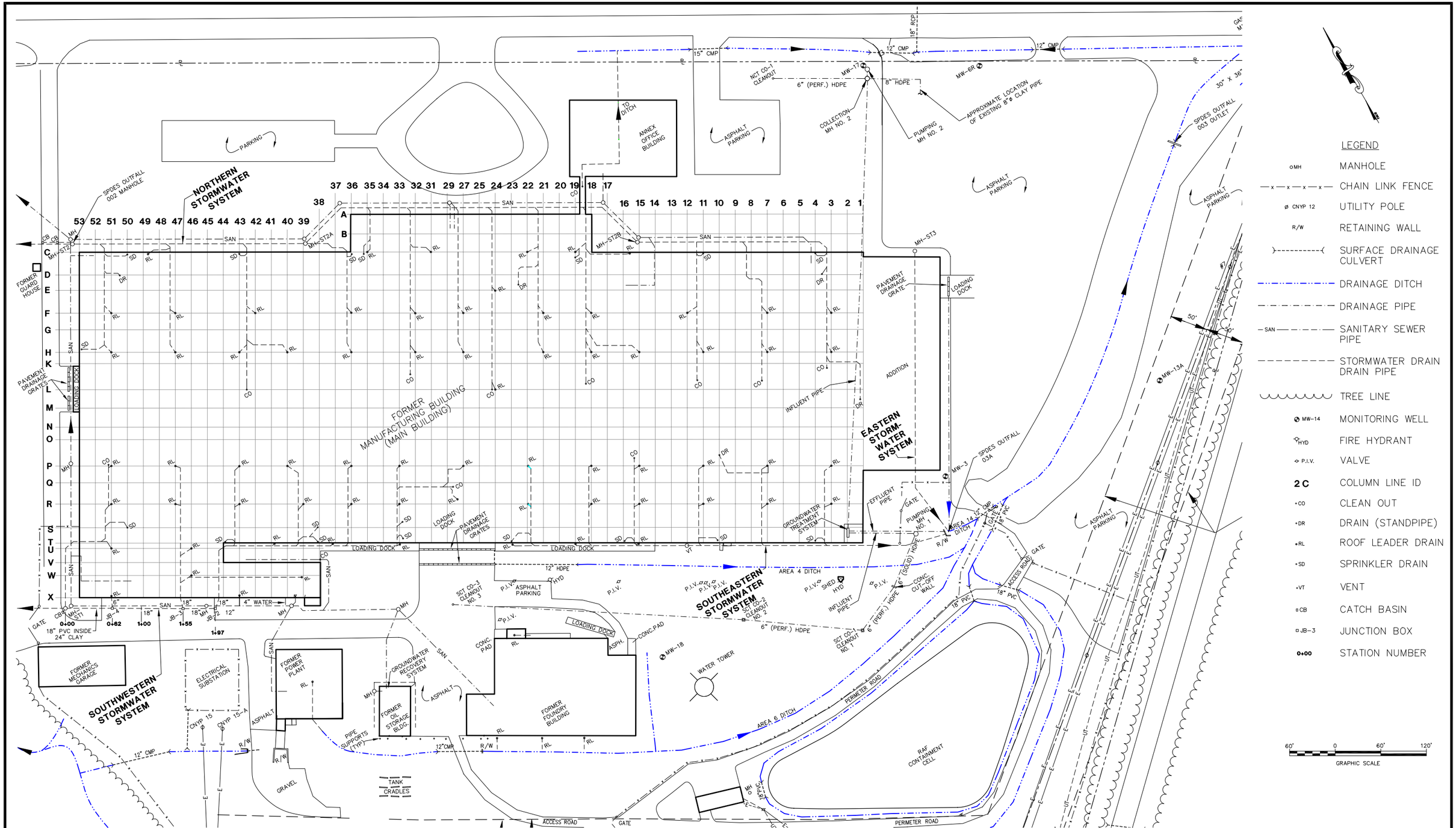
SPDES OUTFALL 003
PLAN AND SECTION

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: **5-3**



X: CP-BASE
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007O&M/DANAB15.DWG

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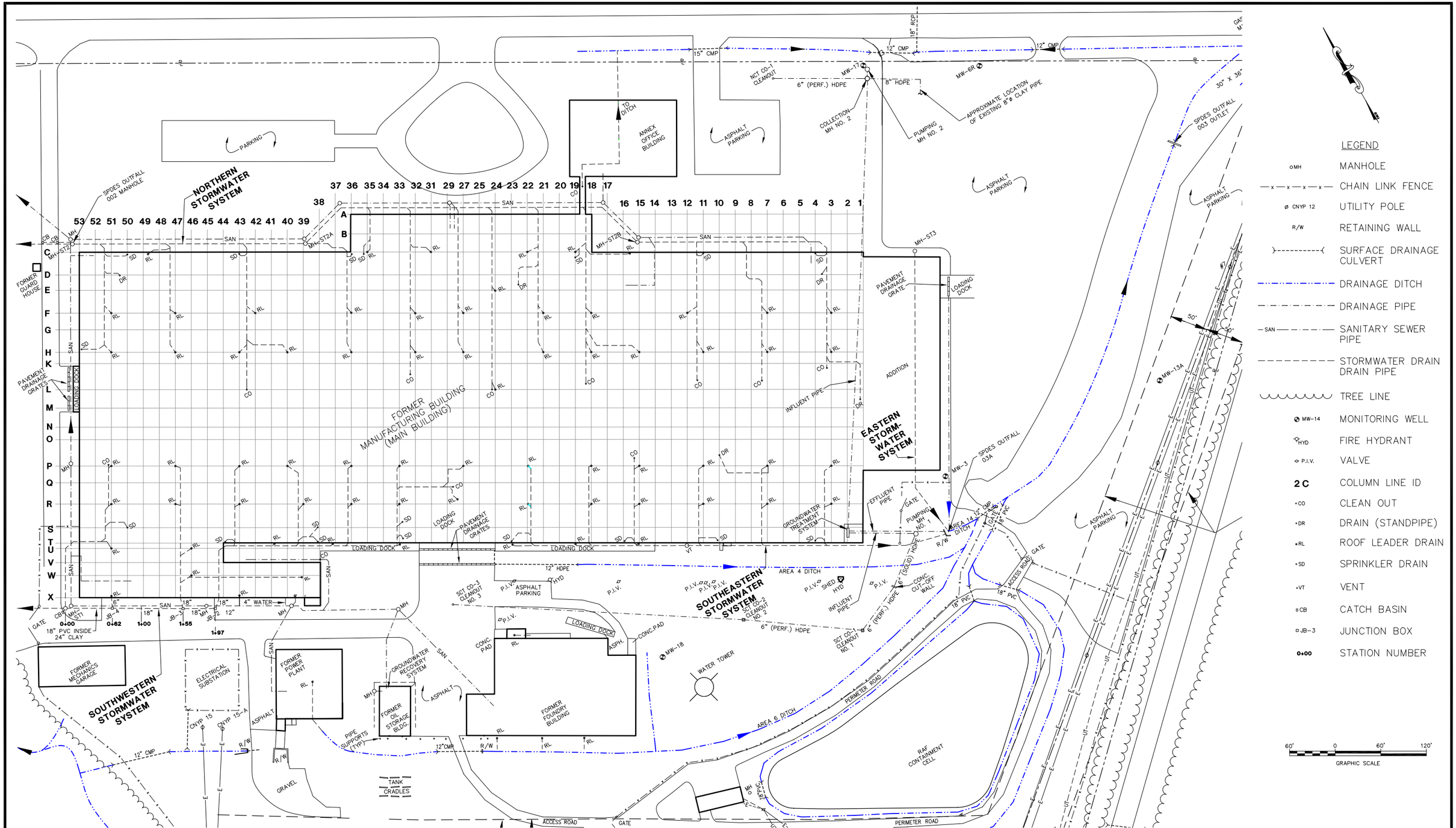
UTICA, NEW YORK

STORMWATER SYSTEM PARTIAL PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 5-4



X: CP-BASE
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007O&M/DANAB15.DWG

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325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

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STORMWATER SYSTEM PARTIAL PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 5-4

6.0 GROUNDWATER TREATMENT SYSTEM

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 in operation. As part of the selected Remedial Action (RA), the system was modified to collect and treat groundwater in 1999. System upgrades were completed in December, 2006. Presently, the GTS consists of an air stripper unit located in the southeast corner of the Main Building, the northern collection trench (NCT), the southern collection trench (SCT), and two pumping manholes designated Pumping Manhole No. 1 (MH-1) and Pumping Manhole No. 2 (MH-2). The Groundwater Treatment System Plan (Figure 6-1) provides the location of these components. ENSR, on behalf of CPTC, has been conducting the OM&M of the GTS since June 1, 2005.

6.1 System Construction

The treatment process includes removal of VOCs from influent water utilizing a low-profile air stripper detailed in the Air Stripper Plan (Figure 6-2) and on the Treatment System As-Built Drawing (Figure 6-4). The low-profile air stripper treats influent groundwater pumped from MH-1 and MH-2. These manholes are 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 groundwater. Groundwater is directed, via gravity feed, to the respective manholes where it is then pumped to 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 has 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 double containment piping system in all piping below grade, and single wall piping above grade. The groundwater treatment system components 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 first to a 2,500-gallon equalization tank, which provides uniform flow into the air stripper and allows solids to settle out prior to treatment. The equalization tank is equipped with four float switches, which monitor and trigger events for the system.

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 70 psi. The treatment system has a typical operating range of 15 to 30 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 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 control panel system was constructed by Northeast Environmental Systems.

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 ENSR's East 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 one to several times per day. 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.

A FREIJE Electronic Descaling system was installed on a trial basis during the overall system upgrade that was completed in December 2006 in an effort to decrease the frequency of maintenance by reducing the amount of sediment build-up in the groundwater treatment system. The FREIJE was installed on a trial basis, and in December 2007 the FREIJE system was shut down to evaluate its effectiveness. Based on the results of that testing, it was determined that the FREIJE system was not contributing significantly to the operation of the groundwater treatment system, and upon approval from the NYSDEC, the FREIJE system was removed.

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

The GTS is designed to operate continuously. The manhole and equalization tank pumps operate, as needed, to control water flow into the air stripper. Control bulbs normally activate pumps. If the pump systems fail to control the water level, 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. The inspection logs, included in Appendix J, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from January 1, 2007 through December 31, 2007. A summary of alarm conditions and maintenance from January 1, 2007 through December 31, 2007 are presented in the following table.

Alarm Conditions and Maintenance Summary

January 1, 2007 – December 31, 2007

Date	Incident/Resolution
1/5/2007	Maintenance: drilled holes in EQ tank drop tube, install strainer in pump 3B
1/17/2007	Maintenance: cleaned MH-2 line from cleanout inside building to manhole
1/29/2007 – 2/1/2007	ENSR on-site to address filter pressure issues on 1/29 and 1/30; filter pressure would not stabilize. On 1/31/07, filters were removed temporarily until 2/1/07, when MH-2 and MH-2 line were cleaned of sediment. Check valve was installed in MH-2 line and sampling ports for MH-1 and MH-2 were installed on 2/1/07 as well.
2/2/2007	Bag filters removed temporarily due to continued high filter pressure alarms.
2/9/2007 – 2/14/2007	Air stripper cleaning completed.
3/6/2007 – 3/7/2007	High pressure alarm caused system shut-down, ENSR responded, changed bag filters regularly until sediment cleared from system and system was operating normally.
3/15/2007-	MH-1, MH-2, floor sump, and EQ Tank High Level alarms caused system shut down;

3/16/2007	ENSR responded, changed bag filters and pumped EQ tank down by hand until system operated normally.
4/23/2007	EQ Tank High Level alarm caused system shut down; ENSR responded, pumped EQ tank down by hand and changed bag filters, after which the system operated normally.
4/27/2007	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; ENSR responded, pumped EQ tank down by hand and re-set system, after which system operated normally.
5/22/2007	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; ENSR responded, changed bag filters and pumped EQ tank down by hand, then re-set system, after which system operated normally.
6/15/2007	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; ENSR responded, pumped MH-1 and EQ tank down by hand several times, after which system operated normally. It was noted that MH-2 flow appeared low, possibly indicating that a line flush was required.
6/18/2007	System shut down, reason not noted. ENSR responded, changed bag filters, and pumped EQ tank down by hand and re-started system, after which system operated normally.
9/13/2007	Area maintenance – steps and platform constructed for bag filter area.
10/8/2007	MH-1, MW-2, EQ Tank High Level alarms cause system shut down. ENSR responded; EQ tank and MH-1 pumped down by hand, bag filters changed, and system is re-set, after which system operated normally.
10/9/2007	MH-1 and MH-2 High Level alarm and Bag Filter High Pressure alarm cause system shut down. ENSR responded; changed bag filters, re-started system, after which system operated normally. It was noted that MH-2 did not appear to be pumping normally.
10/30/2007	MH-1 and MH-2 High Level alarm and Bag Filter High Pressure alarm cause system shut down. ENSR responded; changed bag filters, re-started system, after which system operated normally.
12/3/2007	MH-1, MH-2, and EQ Tank High Level Alarm caused system shut down. ENSR responded, changed bag filters several times while pumped down EQ tank by hand, after which system operated normally.
12/18/2007	ENSR on-site to troubleshoot modem.
12/27/2007	MH-1, MH-2, and EQ Tank High Level alarm on. ENSR responded; changed bag filters several times.
NOTES:	

The total volume of water pumped to the air stripper is measured by in-line flow meters that provide 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, 2007 and December 31, 2007 approximately 1,577,721 gallons of water was pumped, treated, and discharged to Outfall 03A. The 2007 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 2007. Between January 1, 2007 and December 31, 2007, for MH-1, the recorded low, recorded average, and recorded high flow rates per monitoring event are 623 gpd, 3,331 gpd, and 13,585 gpd, respectively. For MH-2, during this period the recorded low, recorded average and recorded high flow rates per monitoring event are 7 gpd, 945 gpd, and 7,044 gpd, respectively. The GTS processed an average of 4,276 gpd during the 12-month period between January 1, 2007 and December 31, 2007.

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 Pneumatic's SPDES Permit (No. NY-0108537), and is discussed in Section 6.4. The January 1, 2007 through December 31, 2007 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 2007 Air Stripper Flow Summary, provides weekly and monthly average flows measured during sampling events, and is inclusive of the flow to the stripper from MH-1 and MH-2.

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 2007 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, 2007 to December 31, 2007. As indicated, the total average annual removal efficiency was 99.0%, resulting in the removal of approximately 7.4 pounds of VOCs during 2007.

6.2.1 2006 MH-1 Flow Data and VOC Concentrations

During 2006, an increase occurred in total flow at Manhole #1 (MH-1); approximately 4.2 million gallons entered the manhole in 2006, compared to approximately 1.4 million gallons during each of the previous three years. In addition, VOC concentrations in MH-1 significantly increased in the time period between February and June 2006. In May 2007, ENSR verified the volume information presented in the 2006 Annual OM&M Report and compared it to the 2006 field logs, laboratory analytical reports, and 2006 Precipitation Data. ENSR also reviewed the reported VOC data provided in Section 6 of the 2006 Annual OM&M Report with analytical data provided in the laboratory reports for accuracy, and determined that the data was correctly reported.

Based on all available information, ENSR determined that the increased volume of water that entered MH-1 and MH-2 in 2006 was most likely a result of significant increased precipitation in June and July, 2006. Chicago Pneumatic determined that the influent samples were collected from the proper locations and such samples were analyzed in accordance with laboratory protocols.

As displayed in Table 6.1, approximately 1,229,047 gallons of water passed through MH-1 during 2007. In addition, MH-1 influent VOC concentrations had returned to levels consistent with pre-2006 data; no exceedances of the SPDES Permit effluent limits took place in 2007. Based on this information, ENSR believes the increases in MH-1 flow and VOC concentrations were an anomaly likely caused by increased precipitation during the majority of 2006.

6.3 Maintenance and Troubleshooting

The following scheduled and unscheduled maintenance events resulted in the temporary shutdown of the GTS between January 1, 2007 and December 31, 2007:

- As summarized in Section 6.2, several system shut-downs were recorded which resulted in the GTS being shut down for a relatively short amount of time (one to two days).
- February 9, 2007 through February 14, 2007: GTS shut down to complete cleaning.

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).

On behalf of Chicago Pneumatic, between January 1, 2007 and December 31, 2007, GTS samples were collected by ENSR personnel, placed in appropriately labeled laboratory glassware, packed on ice, and delivered by the ENSR sampling personnel to Life Sciences Laboratory in East Syracuse, New York.

6.6 Tables

TABLE 6-1
JANUARY 1, 2007 THROUGH DECEMBER 31, 2007 MANHOLE FLOW SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
1/5/2007	89445	2442	4201	163	4364
1/11/2007	123638	2966	5699	87	5786
1/17/2007	167554	3093	7319	21	7341
1/22/2007	191206	8560	4730	1093	5824
1/29/2007	206256	8706	2150	21	2171
Average Monthly Flow			**4717**	**239**	**4956**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
2/8/2007	235863	32938	2961	2423	5384
2/15/2007	248284	44043	1774	1586	3361
2/20/2007	257969	48346	1937	861	2798
2/27/2007	271758	52627	1970	612	2581
Average Monthly Flow			**2259**	**1515**	**3773**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
3/6/2007	278028	53885	896	180	1075
3/15/2007	309643	67507	3513	1514	5026
3/19/2007	363984	95681	13585	7044	20629
3/27/2007	432284	141758	8538	5760	14297
Average Monthly Flow			**5733**	**3183**	**8916**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
4/5/2007	496161	189447	7097	5299	12396
4/9/2007	518483	203523	5581	3519	9100
4/17/2007	575614	236085	7141	4070	11212
4/23/2007	606666	264455	5175	4728	9904
5/4/2007	664535	303928	5261	3588	8849
Average Monthly Flow			**6112**	**4268**	**10380**

TABLE 6-1
JANUARY 1, 2007 THROUGH DECEMBER 31, 2007 MANHOLE FLOW SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
5/8/2007	676292	305929	2939	500	3440
5/15/2007	695321	308701	2718	396	3114
5/22/2007	713322	310779	2572	297	2868
5/31/2007	731722	314591	2044	424	2468
Average Monthly Flow			**2488**	**395**	**2883**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
6/4/2007	738935	315001	1803	103	1906
6/13/2007	753068	315930	1570	103	1674
6/18/2007	758687	319550	1124	724	1848
6/26/2007	774331	328771	1956	1153	3108
Average Monthly Flow			**1639**	**545**	**2184**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
7/2/2007	784922	329959	1765	198	1963
7/12/2007	799468	330461	1455	50	1505
7/18/2007	809055	331081	1598	103	1701
7/23/2007	821080	331788	2405	141	2546
8/1/2007	834685	332665	1512	97	1609
Average Monthly Flow			**1677**	**108**	**1785**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
8/8/2007	845291	333394	1515	104	1619
8/15/2007	855719	334127	1490	105	1594
8/21/2007	863942	334886	1371	127	1497
8/24/2007	874265	335787	3441	300	3741
Average Monthly Flow			**1721**	**136**	**1857**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
9/5/2007	881742	336604	623	68	691
9/13/2007	891556	337565	1227	120	1347
9/19/2007	899317	338511	1294	158	1451
9/26/2007	907312	339449	1142	134	1276
Average Monthly Flow			**1001**	**111**	**1112**

TABLE 6-1
JANUARY 1, 2007 THROUGH DECEMBER 31, 2007 MANHOLE FLOW SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
10/2/2007	914833	340315	1254	144	1398
10/11/2007	929644	342008	1646	188	1834
10/17/2007	946892	343397	2875	232	3106
10/24/2007	967480	344407	2941	144	3085
10/29/2007	980482	344973	2600	113	2714
Average Monthly Flow			**2217**	**167**	**2385**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
11/7/2007	1023326	347174	4760	245	5005
11/13/2007	1038534	347845	2535	112	2647
11/21/2007	1070830	348721	4037	110	4147
11/29/2007	1116250	349136	5678	52	5729
Average Monthly Flow			**4380**	**134**	**4514**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
12/6/2007	1156256	349458	5715	46	5761
12/13/2007	1184167	349772	3987	45	4032
12/18/2007	1209503	349863	5067	18	5085
12/27/2007	1236320	349929	2980	7	2987
1/2/2008	1289087	349973	8795	7	8802
Average Monthly Flow			**5083**	**25**	**5108**

Summary of Manhole Flow for December 29, 2006 through January 2, 2008		
Total Flow	**gal**	**gpd**
MH-1	**1,229,047**	**3331**
MH-2	**348,674**	**945**
Total 2007 Flow:	**1,577,721**	**4276**

Notes:

Average monthly manhole flow is based on daily average

Table 6-2
JANUARY 1, 2007 through DECEMBER 31, 2007 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					
Sample Date	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	Monthly Average VOC's
Permit Limit											10	10	10	10		
1/5/2007	<1	5	<1	<1	5	<40	590	<20	1900	2490	<1	<1	<1	1	1	
1/11/2007											<2	1.6	<1	1.4	3	
1/17/2007											<2	<1	<1	1.1	1.1	
1/22/2007											<2	<1	<1	1.7	1.7	
1/29/2007											<2	<1	<1	<1	0	1.4
2/8/2007	<2	3.3	<1	1.7	5	<2	51	<1	100	151	<2	<1	<1	1.7	1.7	
2/15/2007											<2	<1	<1	1.5	1.5	
2/20/2007											<2	<1	<1	1.9	1.9	
2/27/2007											<1	<1	<1	1.6	1.6	1.7
3/6/2007	12	3.5	<1	<1	15.5	<20	600	<20	2100	2700	<2	4	<1	1.2	5.2	
3/15/2007											<1	<1	<1	<1	0	
3/19/2007											<2	<1	<1	1.4	1.4	
3/27/2007											<1	<1	<1	1.2	1.2	2.0
4/5/2007	1.4	6.4	<1	<1	7.8	<10	670	<10	2800	3470	<1	<1	<1	<1	0	
4/9/2007											<1	<1	<1	<1	0	
4/17/2007											<1	<1	<1	<1	0	
4/23/2007											<1	2.9	<1	4.4	7.3	
5/4/2007											<1	<1	<1	1	1	1.7
5/8/2007	1.6	7.5	<1	1.1	10.2	<20	510	<20	1700	2210	<1	<1	<1	1.4	1.4	
5/15/2007											<1	<1	<1	<1	0	
5/22/2007											<1	1.2	<1	2	3.2	
5/31/2007											<1	<1	<1	<1	0	1.2
6/4/2007	1.5	4.5	<1	<1	6	<20	150	<20	670	820	<1	<1	<1	<1	0	
6/13/2007											<1	<1	<1	<1	0	
6/18/2007											<1	<1	<1	<1	0	
6/26/2007											<1	<1	<1	<1	0	0.0
7/2/2007	2.5	3.8	<1	<1	6.3	<20	220	<20	730	950	<1	<1	<1	<1	0	
7/12/2007											<1	<1	<1	<1	0	
7/18/2007											<1	<1	<1	<1	0	
7/23/2007											<1	<1	<1	<1	0	
8/1/2007											<1	<1	<1	<1	0	0.0
8/8/2007	3.5	8.8	<1	<1	12.3	<20	270	<20	1100	1370	<1	<1	<1	<1	0	
8/15/2007											<1	<1	<1	<1	0	
8/21/2007											<1	1.3	<1	1.4	2.7	
8/24/2007											<1	<1	<1	<1	0	0.7

Table 6-2
JANUARY 1, 2007 through DECEMBER 31, 2007 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					
Sample Date	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	Monthly Average VOC's
9/5/2007	<1	3.3	<1	<1	3.3	<5	50	<5	120	170	<1	<1	<1	<1	0	
9/13/2007											<1	<1	<1	<1	0	
9/19/2007											<1	<1	<1	<1	0	
9/26/2007											<1	<1	<1	<1	0	0.0
10/2/2007	<1	2.8	<1	<1	2.8	<5	39	<5	78	117	<1	<1	<1	<1	0	
10/11/2007											<1	<1	<1	<1	0	
10/17/2007											<1	<1	<1	<1	0	
10/24/2007											<1	<1	<1	<1	0	
10/29/2007											<1	<1	<1	<1	0	0.0
11/7/2007	1.8	8	<1	<1	9.8	<20	120	<20	450	570	<1	<1	<1	<1	0	
11/13/2007											<1	<1	<1	<1	0	
11/21/2007											<1	<1	<1	<1	0	
11/29/2007											<1	<1	<1	<1	0	0.0
12/6/2007	1.4	5.5	<1	<1	6.9	<20	190	<20	610	800	<1	<1	<1	<1	0	
12/13/2007											<1	<1	<1	1.3	1.3	
12/18/2007											<1	<1	<1	<1	0	
12/27/2007											<1	<1	<1	2.5	2.5	
1/2/2008											<1	<1	<1	<1	0	0.8

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
2007 AIR STRIPPER FLOW SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/5/2007	4364
1/11/2007	5786
1/17/2007	7341
1/22/2007	5824
1/29/2007	2171
Average Monthly Flow (gpd)	**4956**
2/8/2007	5384
2/15/2007	3361
2/20/2007	2798
2/27/2007	2581
Average Monthly Flow (gpd)	**3773**
3/6/2007	1075
3/15/2007	5026
3/19/2007	20629
3/27/2007	14297
Average Monthly Flow (gpd)	**8916**
4/5/2007	12396
4/9/2007	9100
4/17/2007	11212
4/23/2007	9904
5/4/2007	8849
Average Monthly Flow (gpd)	**10380**
5/8/2007	3440
5/15/2007	3114
5/22/2007	2868
5/31/2007	2468
Average Monthly Flow (gpd)	**2883**
6/4/2007	1906
6/13/2007	1674
6/18/2007	1848
6/26/2007	3108
Average Monthly Flow (gpd)	**2184**
7/2/2007	1963
7/12/2007	1505
7/18/2007	1701
7/23/2007	2546
8/1/2007	1609
Average Monthly Flow (gpd)	**1785**

TABLE 6-3
2007 AIR STRIPPER FLOW SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

8/8/2007	1619	
8/15/2007	1594	
8/21/2007	1497	
8/24/2007	3741	
Average Monthly Flow (gpd)		**1857**
9/5/2007	691	
9/13/2007	1347	
9/19/2007	1451	
9/26/2007	1276	
Average Monthly Flow (gpd)		**1112**
10/2/2007	1398	
10/11/2007	1834	
10/17/2007	3106	
10/24/2007	3085	
10/29/2007	2714	
Average Monthly Flow (gpd)		**2385**
11/7/2007	5005	
11/13/2007	2647	
11/21/2007	4147	
11/29/2007	5729	
Average Monthly Flow (gpd)		**4514**
12/6/2007	5761	
12/13/2007	4032	
12/18/2007	5085	
12/27/2007	2987	
1/2/2008	8802	
Average Monthly Flow (gpd)		**5108**

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, 2007 - December 31, 2007 AIR STRIPPER MASS REMOVAL SUMMARY

2007 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Month	Air Stripper Influent - Average Monthly VOC[1] Concentration (µg/l)[2]	Air Stripper Effluent - Average Monthly VOC Concentration[5] (µg/l)	VOC's Removed (µg/l)	% VOC's Removed	Air Stripper Effluent - Average Monthly Flow (gpd)[3]	VOC's Removed (lbs)[4]
Jan	125	1.36	124	98.9	4956	0.2
Feb	64	1.68	62	97.4	3773	0.1
Mar	974	1.95	972	99.8	8916	2.0
Apr	1431	1.66	1429	99.9	10380	4.7
May	312	1.15	311	99.6	2883	0.2
Jun	209	0.00	209	100.0	2184	0.1
Jul	63	0.00	63	100.0	1785	0.0
Aug	112	0.68	111	99.4	1857	0.0
Sep	20	0.00	20	100.0	1112	0.0
Oct	11	0.00	11	100.0	2385	0.0
Nov	26	0.00	26	100.0	4514	0.0
Dec	11	0.76	10	93.1	5108	0.0
			2007 Average (%)[6]:	**99.0**	2007 Total (lbs):	**7.4**

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) 2007 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-5
JANUARY 1, 2007 through DECEMBER 31 2007 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2007 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**		
1/5/2007	<1	<1	1	<1	4364	7.9
1/11/2007	1.6	<1	1.4	<2	5786	7.8
1/17/2007	<1	<1	1.1	<2	7341	7.8
1/22/2007	<1	<1	1.7	<2	5824	7.6
1/29/2007	<1	<1	<1	<2	2171	7.8
2/8/2007	<1	<1	1.7	<2	5384	7.7
2/15/2007	<1	<1	1.5	<2	3361	7.8
2/20/2007	<1	<1	1.9	<2	2798	7.7
2/27/2007	<1	<1	1.6	<1	2581	8
3/6/2007	4	<1	1.2	<2	1075	8
3/15/2007	<1	<1	<1	<1	5026	7.8
3/19/2007	<1	<1	1.4	<2	20629	7.7
3/27/2007	<1	<1	1.2	<1	14297	7.5
4/5/2007	<1	<1	<1	<1	12396	7.6
4/9/2007	<1	<1	<1	<1	9100	7.8
4/17/2007	<1	<1	<1	<1	11212	7.7
4/23/2007	2.9	<1	4.4	<1	9904	7.6
5/4/2007	<1	<1	1	<1	8849	8.4
5/8/2007	<1	<1	1.4	<1	3440	7.6
5/15/2007	<1	<1	<1	<1	3114	7.7
5/22/2007	1.2	<1	2	<1	2868	7.4
5/31/2007	<1	<1	<1	<1	2468	7.6
6/4/2007	<1	<1	<1	<1	1906	7.7
6/13/2007	<1	<1	<1	<1	1674	7.6
6/18/2007	<1	<1	<1	<1	1848	7.6
6/26/2007	<1	<1	<1	<1	3108	7.7
7/2/2007	<1	<1	<1	<1	1963	7.7
7/12/2007	<1	<1	<1	<1	1505	7.6
7/18/2007	<1	<1	<1	<1	1701	7.7
7/23/2007	<1	<1	<1	<1	2546	7.9
8/1/2007	<1	<1	<1	<1	1609	8
8/8/2007	<1	<1	<1	<1	1619	8.1
8/15/2007	<1	<1	<1	<1	1594	8
8/21/2007	1.3	<1	1.4	<1	1497	7.9
8/24/2007	<1	<1	<1	<1	3741	8.2

TABLE 6-5
JANUARY 1, 2007 through DECEMBER 31 2007 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2007 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**		
9/5/2007	<1	<1	<1	<1	691	8.3
9/13/2007	<1	<1	<1	<1	1347	7.9
9/19/2007	<1	<1	<1	<1	1451	8.3
9/26/2007	<1	<1	<1	<1	1276	7.9
10/2/2007	<1	<1	<1	<1	1398	8
10/11/2007	<1	<1	<1	<1	1834	8.2
10/17/2007	<1	<1	<1	<1	3106	8
10/24/2007	<1	<1	<1	<1	3085	8.2
10/29/2007	<1	<1	<1	<1	2714	7.8
11/7/2007	<1	<1	<1	<1	5005	8
11/13/2007	<1	<1	<1	<1	2647	7.7
11/21/2007	<1	<1	<1	<1	4147	8.1
11/29/2007	<1	<1	<1	<1	5729	7.9
12/6/2007	<1	<1	<1	<1	5761	8.1
12/13/2007	<1	<1	1.3	<1	4032	7.7
12/18/2007	<1	<1	<1	<1	5085	7.5
12/27/2007	<1	<1	2.5	<1	2987	7.5
1/2/2008	<1	<1	<1	<1	8802	7.7

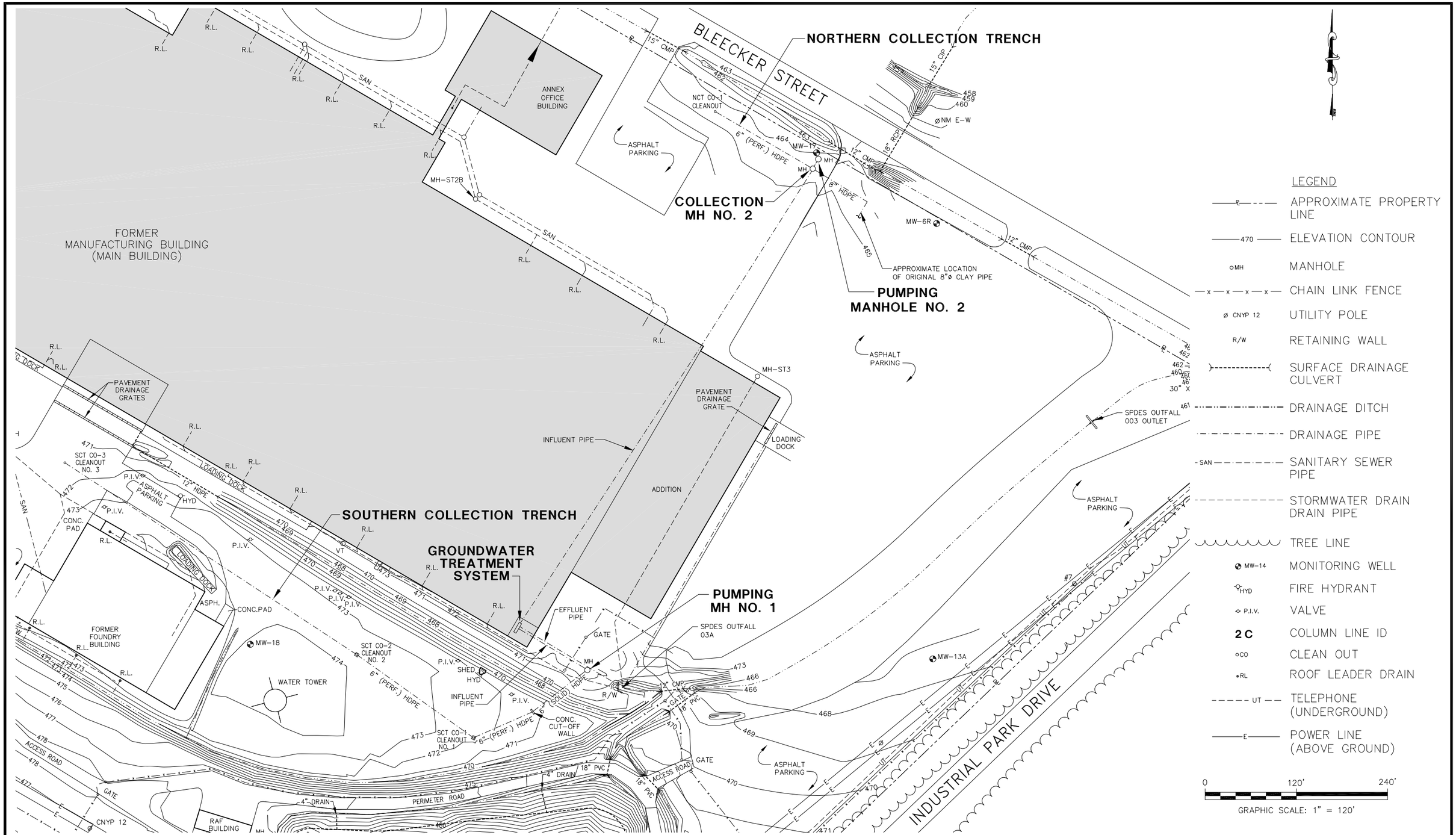
Notes:

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



NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. 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
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB12.DWG

synapse

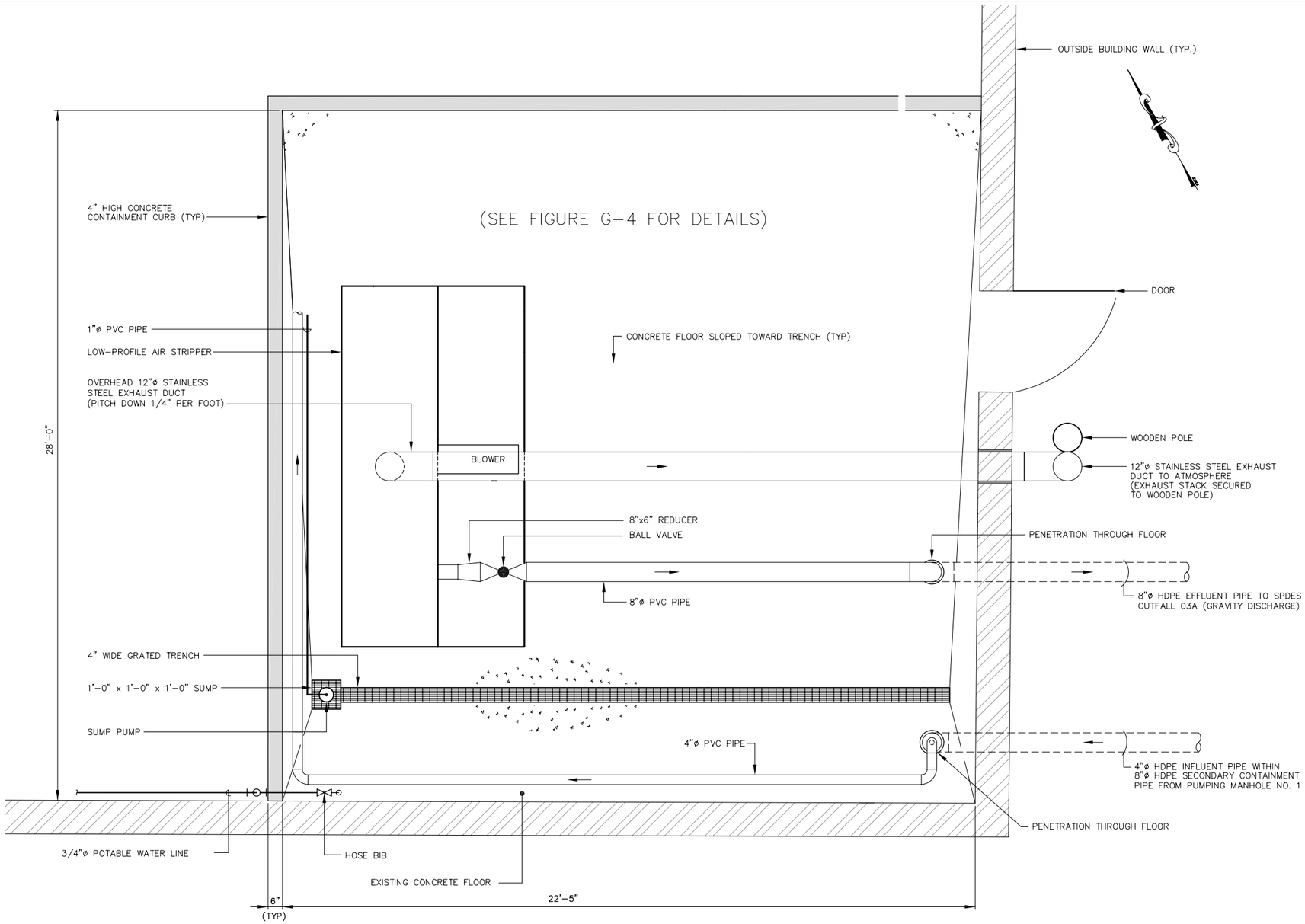
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2007 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

GROUNDWATER TREATMENT SYSTEM PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 6-1



FLOOR PLAN

1/4" = 1'-0"

GRAPHIC SCALE

0 2' 4' 8'

1/4" = 1'-0"

X: CP-BASE
D2BBW
2/25/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB14.DWG

synapse

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

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

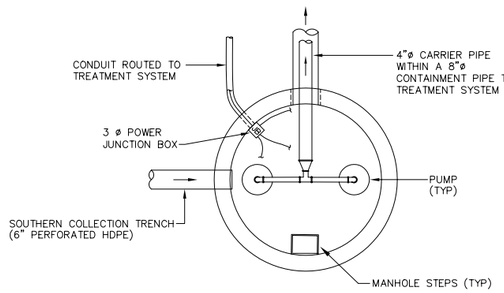
2200 BLEECKER STREET
UTICA, NEW YORK

AIR STRIPPER PLAN

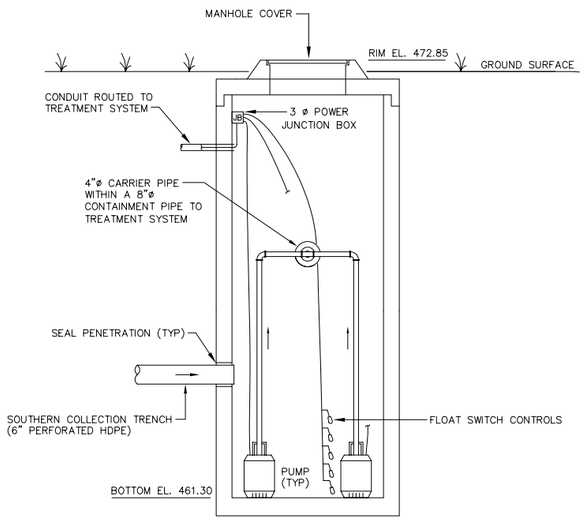
PROJECT NO.: DANA 01-04

DATE: MARCH 2008

FIGURE NO.: 6-2



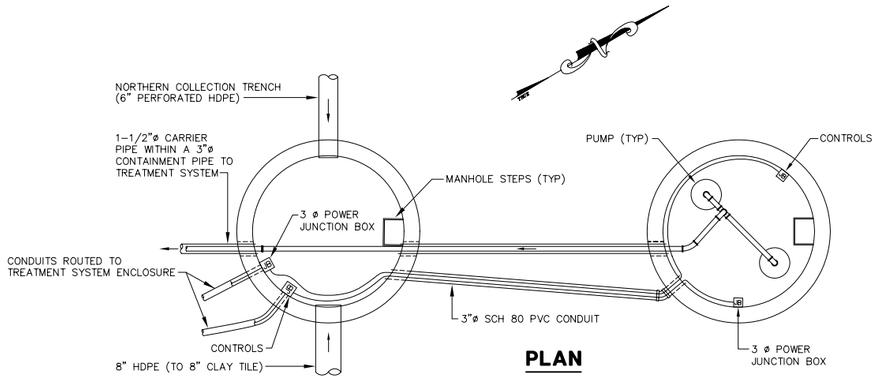
PLAN



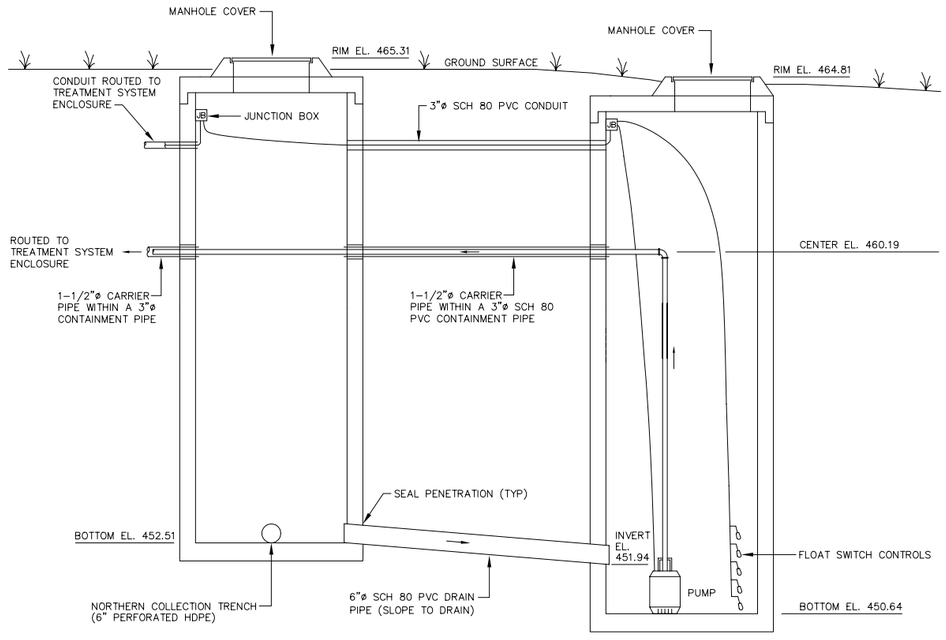
GENERAL SECTION

PUMPING MANHOLE NO. 1 PLAN AND SECTION

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



PLAN



COLLECTION MANHOLE **PUMPING MANHOLE**

GENERAL SECTION

PUMPING MANHOLE NO. 2 PLAN AND SECTION

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

0 4' 8'

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

X: CP-BASE
D2BBW
2/21/08
SYNAPSE/WIP/DANA 01-04/2007OP&M/DANAB13.DWG

synapse

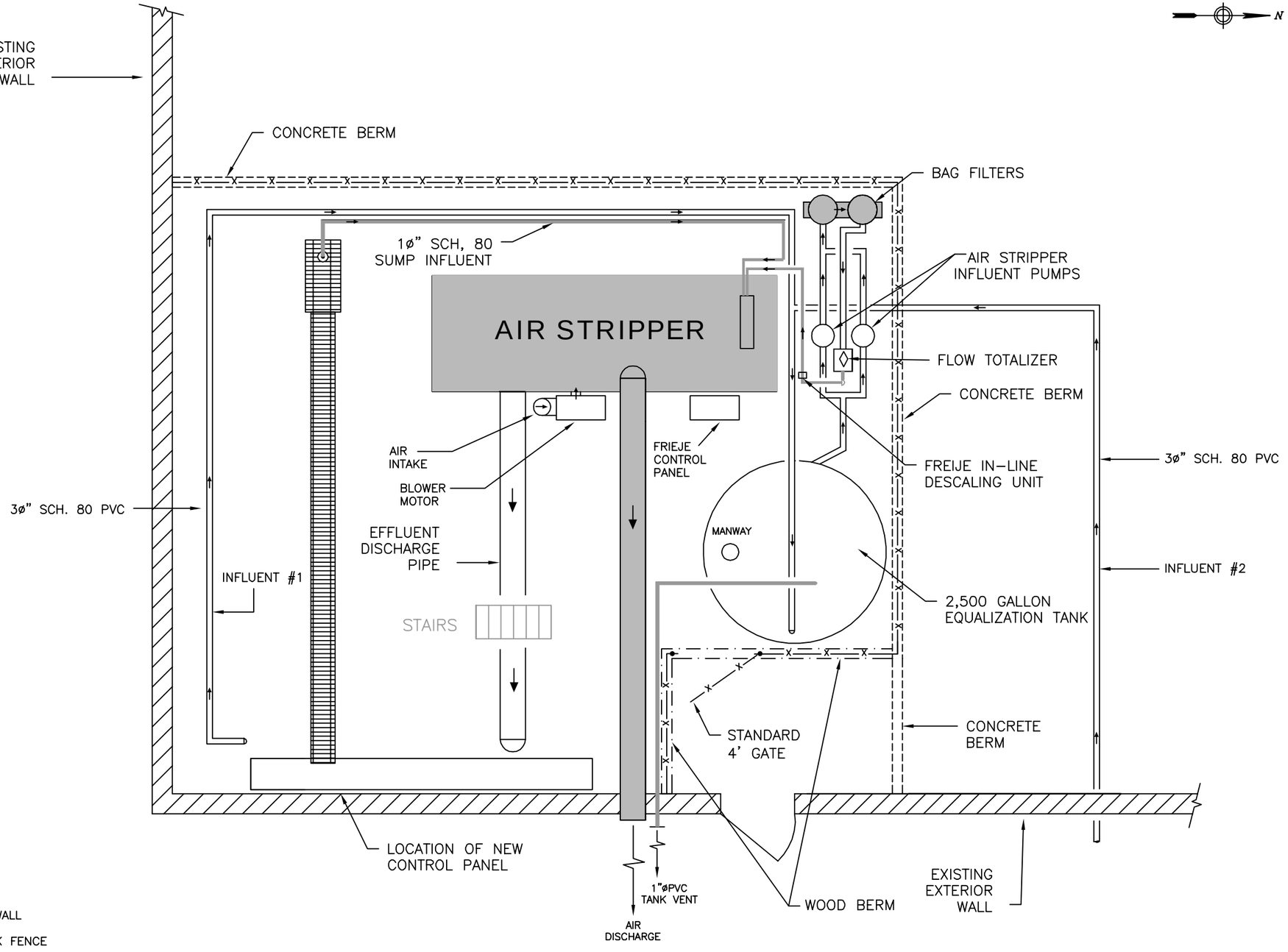
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2007 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

PUMPING MANHOLE PLANS AND SECTIONS

PROJECT NO.: DANA 01-04
DATE: MARCH 2008
FIGURE NO.: 6-3



LEGEND

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

PLAN VIEW

NOT TO SCALE

J:\LANSTAND\120\Projects\10783 Chicago Pneumatic Utica\2007 Synapse Annual Report\FIGURE\SYSTEM AS-BUILT.dwg

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
DM	LLM/DM	DMS	LPM

ENSR CORPORATION
6601 KIRKVILLE ROAD
E. SYRACUSE, NEW YORK 13057
PHONE: (315) 432-0506
FAX: (315) 437-0509
WEB: HTTP://WWW.ENSR.AECOM.COM

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

PROJECT NUMBER:	DATE:	SCALE:
10783-014	3/18/08	NTS

FIGURE NUMBER: 6-4

SHEET NUMBER: 1 OF 1

APPENDIX A
SITE INSPECTION REPORTS – FORM A & FORM A1

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

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: 1/26/07

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Poor, Snow Covered	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) High Tail Water	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	✓
B	Ditches	Snow Covered	✓
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 127 Pump 2 Hours 214.2	✓
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)	✓

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: 1/26/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 647.00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

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: 2/21/07

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Snow Covered	✓
B	General Property Drainage	SPDES Outfall (001 X 002 X 003 ___) High Tailwater	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	✓
B	Ditches	Snow Covered	✓
C	Culverts		✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ___ Vegetation ___ Snow Covered	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout	Manhole not accesable	✓
D	Perimeter Drains (4)	Snow Covered	✓
4 Leachate Collection Manhole			
A	Structure	External ___ Internal ___	✓
B	Pumps and Plumbing	Pump 1 Hours 127.8 Pump 2 Hours 214.2	✓
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)	✓

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: 2/21/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock___, Vent____, Heater____	✓
B	Electrical and Telephone	Elec____ Phone_____	✓
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N)	✓
A'	Flow Totalizer	Reading = 649 00 gal.	✓
B	Secondary Containment	Liquid (Y or N)	✓
C	Piping Components		✓
D	Electrical Components	Lock____ Light Bulbs____	✓
E	Leachate Sampling	(Y or N) (see Form C)	✓

Additional Comments:

National Grid onsite to remove snow to access damaged telephone pole. R. Creighton onsite review H&S aspects of work.

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: 3/23/07

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	i ✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) High Tail Water	ii ✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Snow Covered	✓
B	Ditches	Snow Covered (003)	✓
C	Culverts	Good	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation ✓ Good	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)	Snow Covered	✓
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	✓
B	Pumps and Plumbing	Pump 1 Hours 127.0 Pump 2 Hours 214.2	✓
B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
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)	✓

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: 3/23/07

Category	Inspected	Observation/Condition	√
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 6510 0 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:

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. Crierghton Date: 4/18/07

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	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation ✓ GOOD	✓
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 128.9 Pump 2 Hours 214.2	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
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)	✓

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: 4/18/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock___, Vent____, Heater____	✓
B	Electrical and Telephone	Elec____ Phone_____	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 653 00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock____ Light Bulbs____	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

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

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

Synapse Representative: R. Creighton Date: 5/31/07

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	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation GOOD	✓
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 68.5 Pump 2 Hours 214.2	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
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)	✓

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: 5/31/07

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
	B	Electrical and Telephone	Elec ✓ Phone ✓	✓
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
	A	Tank (External)	Internal (Y or (N))	✓
	A'	Flow Totalizer	Reading = 657 00 gal.	✓
	B	Secondary Containment	Liquid (Y or (N))	✓
	C	Piping Components		✓
	D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
	E	Leachate Sampling	(Y or (N)) (see Form C)	✓

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: 6/12/07

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	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows _____ Vegetation_____	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	✓
B	Pumps and Plumbing	Pump 1 Hours 128.1 Pump 2 Hours 24.2	✓
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 YES	✓
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. Creighton Date: 6/12/07

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock___, Vent____, Heater____	✓
	B	Electrical and Telephone	Elec____ Phone_____	✓
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
	A	Tank (External)	Internal (Y or N)	✓
	A'	Flow Totalizer	Reading = 657 00 gal.	✓
	B	Secondary Containment	Liquid (Y or (N))	✓
	C	Piping Components		✓
	D	Electrical Components	Lock____ Light Bulbs____	✓
	E	Leachate Sampling	(Y or N) (see Form C)	✓

Additional Comments:
Asbestos Abatement preparation @ Main Building

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: 7/26/07

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	Good	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 1 Vegetation Good	✓
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 128.2 Pump 2 Hours 214.5	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
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	DRIP	✓
G	Confined Space Entry	(Y or (N)) (see Form B)	✓

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

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

Synapse Representative: R. Creighton Date: 7/26/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 6601 00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

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: PF, CR, SM Date: 8-14-07

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	DRY / GOOD	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) CUT WOODY GROTH	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	GOOD W/ SOME VEGETATION	✓
B	Ditches	VEGATED / DRY	✓
C	Culverts		
D	Perimeter Fence	Gates ✓ SOME WOODY GROTH / CUT	✓
E	Utilities	Elec. ✓ Phone ✓ 2 STATE	✓
3 Containment Cell			
A	Surface Cover System	Burrows 7 Vegetation 98% REMOVE WOODY GROTH 1@N. FACE / 5@S. FACE / 1@N. FACE	✓
B	Gas Vents (2)	SCREENS OK	✓
B'	PID Readings	(Y or N) Background 0.0 ppm, @ 20' 0.0 ppm, @ Vent 0.0 ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓ CLEAN INTERIOR DEBRIS	✓
B	Pumps and Plumbing	Pump 1 Hours 128.5 Pump 2 Hours 214.2	✓
B'	Pump Changeover	(Y or N) Lead Pump 2 Lag Pump 1	✓
B"	Test Automatic Pump Controls	LSHH ✓, LSH ✓, LSL ✓, LSLL ✓	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs OK	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe		✓
F	Influent Pipe	FLOW = DRIP	✓
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: PF, RC, SM Date: 8-14-07

Category	Inspected	Observation/Condition	√
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater OFF	✓
B	Electrical and Telephone	Elec ✓ Phone ✓ STATIC	✓
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N) PUMPED THRU OUT	✓
A'	Flow Totalizer	Reading = 606300 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:

CONFINED SPACE ENTRY PERMIT (FORM B)
OPERATION, MAINTENANCE, AND MONITORING

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

Synapse Representative: PF, RC, SM Date: 8-14-07

TO BE COMPLETED BY PROJECT MANAGER **POST OUTSIDE SPACE**

LOCATION OF WORK (Manhole): COLLECTION MANHOLE

HAZARDS IN THIS CONFINED SPACE: VOC

DESCRIPTION OF WORK: TEST SWITCHES + ALARMS

HAZARDS CREATED BY WORK TO BE DONE: ENTERING MH

OBSERVER: PAUL FISHER ENTRY LEADER: SCOTT MATTHEWS

EMPLOYEES ASSIGNED: ROGER CREIGHTON

ENTRY DATE: 8-14-07 ENTRY TIME: 11:31 EXIT TIME: 11:34

OUTSIDE CONTRACTORS WORKING IN AREA:

1. Have all employees who will enter this space or act as standby received the following approvals and training: (CIRCLE ANSWER)

(Yes)	No	a.	Medical clearance within the past year.
(Yes)	No	b.	Training in confined space entry.
(Yes)	No	c.	Job emergency procedures have been reviewed with all employees involved.
(Yes)	No	d.	Completed rescue drill for this type of confined space.

2. Equipment identified by checks (✓) in boxes will be available at entrance for emergencies. Equipment identified by (X) in boxes will be used by personnel in space.

- ☐ ☐ 1. 30-min. SCBA
- ☐ ☐ 2. 15-min. SCBA
- ☐ ☐ 3. Other Respirator _____
- ☐ ☐ 4. 2-Way Radios
- ☐ ☐ 5. Tether - Life Lines
- ☐ ☐ 6. Harness - Safety Belt
- ☐ ☐ 7. Wristlets
- ☐ ☐ 8. Fall Device for Tether
- ☐ ☐ 9. Rolling Body Board (Creeper)
- ☑ ☐ 10. Ladder
- ☐ ☐ 11. Ladder Extensions
- ☐ ☐ 12. Barricades for All Openings
- ☐ ☐ 13. Tripod or Other Lifting Device
- ☑ ☐ 14. Opening Device for Covers
- ☑ ☐ 15. Device to Lock Covers Open
- ☐ ☐ 16. Fresh Air Blower and Hose
- ☐ ☐ 17. LEL-O_2 Monitor-Alarm
- ☐ ☐ 18. Toxic Gas Colorimetric Tubes
- ☐ ☐ 19. Toxic Gas Air Monitor
- ☐ ☐ 20. Hard Hats
- ☑ ☐ 21. Safety Shoes
- ☑ ☐ 22. Safety Glasses
- ☐ ☐ 23. Full Face Shields
- ☐ ☐ 24. Chemical Protective Arm Covers
- ☐ ☐ 25. Full Chemical Protective Suit
- ☐ ☐ 26. Chemical Protective Gloves
- ☐ ☐ 27. Chemical Protective Boots
- ☐ ☐ 28. Emergency Lights/Flashlights
- ☐ ☐ 29. Fire Extinguisher
- ☑ ☐ 30. Pre-Entry H&S Briefing
- ☐ ☐ 31. Stand-By Employee(s)

3. All lines that could discharge contaminants into the space have been/will be blanked off or line disconnected and pumping means locked out and tagged. *Yes* ____ *No* ____ *N/A*

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

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

Synapse Representative: R. Creighton Date: 9/19/07

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	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 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 128.5 Pump 2 Hours 214.7	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
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)	✓

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

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

Synapse Representative: R. Creighton Date: 9/19/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 6633 00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

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

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

Synapse Representative: R. Creighton Date: 10/30/07

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	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation GOOD	✓
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 128.5 Pump 2 Hours 214.7	✓
B'	Pump Changeover	(Y or (N) Lead Pump 1 Lag Pump 2	✓
B"	Test Automatic Pump Controls	LSHH ✓, LSH ✓, LSL ✓, LSLL ✓	✓
C	Electrical Components	Test Pumps (Y or (N), Light Bulbs ✓ Replaced Bulb	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	DRIP	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or (N) (see Form B)	✓

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

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

Synapse Representative: R. Creighton Date: 10/30/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 6608 00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs 1	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

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

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

Synapse Representative: R. Creighton Date: 11/30/07

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	Clear	✓
B	Ditches	Flow	✓
C	Culverts	Good	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation ✓	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout	Drip	✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External ___ Internal ___	✓
B	Pumps and Plumbing	Pump 1 Hours 129.5 Pump 2 Hours 214.7	✓
B'	Pump Changeover	(Y or N) Lead Pump 2 Lag Pump 1	✓
B"	Test Automatic Pump Controls	LSHH ____, LSH ____, LSL ____, LSLL ____	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs Yes	✓
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. Creighton Date: 11/30/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	
B	Electrical and Telephone	Elec ✓ Phone ✓	
C	Auto Dialer and Controls	Test Functions (Y or N) (see Form F)	
6 Leachate Storage System			
A	Tank (External)	Internal (Y or N)	
A'	Flow Totalizer	Reading = 67200 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:

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: 12/28/07

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) High Tail water	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Clear	✓
B	Ditches	Low Flow	✓
C	Culverts		✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation Good	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout	Drip	✓
D	Perimeter Drains (4)	No Flow	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours 128.5 Pump 2 Hours 214.7	✓
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)	✓

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: 12/28/07

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N))	✓
A'	Flow Totalizer	Reading = 674 00 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs ✓ Need Replacement Bulb	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

Snow Plowing Contract Submitted to Evergreen Trde. & Lawn

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

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

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: PMF, RPC, SM

Received Alarm: Y or (N)

Tested Alarm: (Y) or N

Date Received: _____

Date Tested: 8/14/07

Time Received: _____

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)		Measured: 70.5" 13.5" Reading: 70.67" 13.66"
2	Tank High Level (100%)		✓
3	Tank Leak		✓ – DRY
4	Tank 90% Full		✓
5	High Manhole Level		✓
6	Manhole Leak		✓
7	Pipe Leak		✓
8	Tank Low Temperature		w/Ice Bucket
9	Inside Temperature		72°F
10	Outside Temperature		75°F
11-15	Not In Use		—
16	Power Off		9 Volts (off) Buzzer 11 volts w/power

Reason for Alarm: N/A

Action Taken: _____

Comments: Annual System Test
Pump Tank Out

synapse

APPENDIX C
LEACHATE DISPOSAL CORRESPONDENCE AND ANALYTICAL DATA

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

synapse

☐ URGENT

☒ FOR REVIEW

☐ PLEASE COMMENT

☐ PLEASE REPLY

ORIGINAL TO FOLLOW VIA US POSTAL SERVICE OR FEDERAL EXPRESS

☐ YES
☐ NO

To:	R.D. Hoffman	From:	Roger Creighton
Company:	OCDWQ&WPC	Date:	August 8, 2007
Fax Number:	(315) 724-9812	Total Pages:	8
Phone Number:	(315) 798-5656	Reference No:	
Subject:		cc:	

Mr. R.D. Hoffman,

Please find attached analytical results for the effluent water sample (LT-15) collected at, 2200 Bleecker Street, Utica, New York, former site of the Chicago Pneumatic Tool Company. We request your review and faxed acceptance to release 2,800 gallons on August 16, 2007. Thank You.

Regards,

Roger Creighton

Historic Bennett Warehouse 325 East Water Street , Syracuse, NY 13202 www.synapseriskmanagement.com 315-475-3700 315-475-3780F

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

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO #DANA 001-07-02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

Leachate Sampling - 2200 Bleecker St., Uitca, NY

LSL Project ID: **0711449**

Receive Date/Time: 07/13/07 8:32

Project Received by: GS

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: JK Edmundo, QA *Date:* 8/3/07

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 8/2/07

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: LT-15 **LSL Sample ID:** 0711449-001

Location: 2200 Bleecker St., Uitca, NY

Sampled: 07/12/07 13:15 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.2 Total Suspended Solids					
Total Suspended Solids @ 103-105 C	<4	mg/l		7/17/07	MM
(5) EPA 1664 Oil + Grease by LLE					
Oil & Grease	<5	mg/l		7/26/07	ASL
(1) EPA 200.7 Priority Pollutant Metals					
Cadmium	<0.01	mg/l	7/16/07	7/18/07	DJP
Chromium	<0.01	mg/l	7/16/07	7/18/07	DJP
Copper	0.059*	mg/l	7/16/07	7/18/07	DJP
Lead	<0.01	mg/l	7/16/07	7/18/07	DJP
Nickel	0.059	mg/l	7/16/07	7/18/07	DJP
Zinc	0.20*	mg/l	7/16/07	7/18/07	DJP
**As per NELAC regulation disclosure of the following condition is required; The result of a calibration check sample associated with this analysis was greater than the established control limit.*					
(1) EPA 608 PCB's					
Aroclor-1016	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1221	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1232	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1242	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1248	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1254	<0.1	ug/l	7/17/07	7/22/07	KIS
Aroclor-1260	<0.1	ug/l	7/17/07	7/22/07	KIS
Surrogate (DCB)	70	%R	7/17/07	7/22/07	KIS
(1) EPA 608 Pesticides					
Aldrin	<0.02	ug/l	7/17/07	7/27/07	KIS
alpha-BHC	<0.02	ug/l	7/17/07	7/27/07	KIS
beta-BHC	<0.02	ug/l	7/17/07	7/27/07	KIS
delta-BHC	<0.02	ug/l	7/17/07	7/27/07	KIS
gamma-BHC (Lindane)	<0.02	ug/l	7/17/07	7/27/07	KIS
Chlordane, Total	<0.02	ug/l	7/17/07	7/27/07	KIS
4,4'-DDD	<0.04	ug/l	7/17/07	7/27/07	KIS
4,4'-DDE	<0.04	ug/l	7/17/07	7/27/07	KIS
4,4'-DDT	<0.04	ug/l	7/17/07	7/27/07	KIS
Dieldrin	<0.04	ug/l	7/17/07	7/27/07	KIS
Endosulfan I	<0.02	ug/l	7/17/07	7/27/07	KIS
Endosulfan II	<0.04	ug/l	7/17/07	7/27/07	KIS
Endosulfan sulfate	<0.04	ug/l	7/17/07	7/27/07	KIS
Endrin	<0.04	ug/l	7/17/07	7/27/07	KIS
Endrin aldehyde	<0.04	ug/l	7/17/07	7/27/07	KIS
Heptachlor	<0.02	ug/l	7/17/07	7/27/07	KIS
Heptachlor epoxide	<0.02	ug/l	7/17/07	7/27/07	KIS
Methoxychlor	<0.2	ug/l	7/17/07	7/27/07	KIS
Toxaphene	<5	ug/l	7/17/07	7/27/07	KIS
Surrogate (DCB)	47	%R	7/17/07	7/27/07	KIS
(1) EPA 624 Volatiles					
Benzene	<1	ug/l		7/16/07	BD
Bromodichloromethane	<1	ug/l		7/16/07	BD

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: LT-15 **LSL Sample ID:** 0711449-001

Location: 2200 Bleecker St., Uitca, NY

Sampled: 07/12/07 13:15 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 624 Volatiles					
Bromoform	<1	ug/l		7/16/07	BD
Bromomethane	<2	ug/l		7/16/07	BD
Carbon tetrachloride	<1	ug/l		7/16/07	BD
Chlorobenzene	<1	ug/l		7/16/07	BD
Chloroethane	<1	ug/l		7/16/07	BD
2-Chloroethylvinyl ether	<10	ug/l		7/16/07	BD
Chloroform	<1	ug/l		7/16/07	BD
Chloromethane	<1	ug/l		7/16/07	BD
Dibromochloromethane	<1	ug/l		7/16/07	BD
1,2-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,3-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,4-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,1-Dichloroethane	<1	ug/l		7/16/07	BD
1,2-Dichloroethane	<1	ug/l		7/16/07	BD
1,1-Dichloroethene	<1	ug/l		7/16/07	BD
trans-1,2-Dichloroethene	<1	ug/l		7/16/07	BD
1,2-Dichloropropane	<1	ug/l		7/16/07	BD
cis-1,3-Dichloropropene	<1	ug/l		7/16/07	BD
trans-1,3-Dichloropropene	<1	ug/l		7/16/07	BD
Ethyl benzene	<1	ug/l		7/16/07	BD
Methylene chloride	<1	ug/l		7/16/07	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		7/16/07	BD
Tetrachloroethene	<1	ug/l		7/16/07	BD
Toluene	<1	ug/l		7/16/07	BD
1,1,1-Trichloroethane	<1	ug/l		7/16/07	BD
1,1,2-Trichloroethane	<1	ug/l		7/16/07	BD
Trichloroethene	<1	ug/l		7/16/07	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		7/16/07	BD
Vinyl chloride	<1	ug/l		7/16/07	BD
Xylenes (Total)	<1	ug/l		7/16/07	BD
Surrogate (1,2-DCA-d4)	106	%R		7/16/07	BD
Surrogate (Tol-d8)	111	%R		7/16/07	BD
Surrogate (4-BFB)	113	%R		7/16/07	BD
(1) Modified EPA 625 Semi-Volatiles					
Acenaphthene	<5	ug/l	7/17/07	7/18/07	CRT
Acenaphthylene	<5	ug/l	7/17/07	7/18/07	CRT
Anthracene	<5	ug/l	7/17/07	7/18/07	CRT
Benzidine	<20	ug/l	7/17/07	7/18/07	CRT
Benzo(a)anthracene	<5	ug/l	7/17/07	7/18/07	CRT
Benzo(b)fluoranthene	<5	ug/l	7/17/07	7/18/07	CRT
Benzo(k)fluoranthene	<5	ug/l	7/17/07	7/18/07	CRT
Benzo(ghi)perylene	<5	ug/l	7/17/07	7/18/07	CRT
Benzo(a)pyrene	<5	ug/l	7/17/07	7/18/07	CRT
4-Bromophenyl-phenylether	<5	ug/l	7/17/07	7/18/07	CRT
Butylbenzylphthalate	<5	ug/l	7/17/07	7/18/07	CRT
bis(2-Chloroethoxy)methane	<5	ug/l	7/17/07	7/18/07	CRT

Life Science Laboratories, Inc.

Date Printed: 8/2/07

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: LT-15 **LSL Sample ID:** 0711449-001

Location: 2200 Bleecker St., Uitca, NY

Sampled: 07/12/07 13:15 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) Modified EPA 625 Semi-Volatiles					
bis(2-Chloroethyl)ether	<5	ug/l	7/17/07	7/18/07	CRT
bis(2-Chloroisopropyl)ether	<5	ug/l	7/17/07	7/18/07	CRT
4-Chloro-3-methylphenol	<5	ug/l	7/17/07	7/18/07	CRT
2-Chloronaphthalene	<5	ug/l	7/17/07	7/18/07	CRT
2-Chlorophenol	<5	ug/l	7/17/07	7/18/07	CRT
4-Chlorophenyl-phenylether	<5	ug/l	7/17/07	7/18/07	CRT
Chrysene	<5	ug/l	7/17/07	7/18/07	CRT
Dibenz(a,h)anthracene	<5	ug/l	7/17/07	7/18/07	CRT
Di-n-butylphthalate	<5	ug/l	7/17/07	7/18/07	CRT
1,2-Dichlorobenzene	<5	ug/l	7/17/07	7/18/07	CRT
1,3-Dichlorobenzene	<5	ug/l	7/17/07	7/18/07	CRT
1,4-Dichlorobenzene	<5	ug/l	7/17/07	7/18/07	CRT
3,3'-Dichlorobenzidine	<10	ug/l	7/17/07	7/18/07	CRT
2,4-Dichlorophenol	<5	ug/l	7/17/07	7/18/07	CRT
2,4-Dimethylphenol	<5	ug/l	7/17/07	7/18/07	CRT
Diethylphthalate	<5	ug/l	7/17/07	7/18/07	CRT
Dimethylphthalate	<5	ug/l	7/17/07	7/18/07	CRT
2,4-Dinitrophenol	<10	ug/l	7/17/07	7/18/07	CRT
2,4-Dinitrotoluene	<5	ug/l	7/17/07	7/18/07	CRT
2,6-Dinitrotoluene	<5	ug/l	7/17/07	7/18/07	CRT
Di-n-octylphthalate	<5	ug/l	7/17/07	7/18/07	CRT
bis(2-Ethylhexyl)phthalate	5.4	ug/l	7/17/07	7/18/07	CRT
Fluoranthene	<5	ug/l	7/17/07	7/18/07	CRT
Fluorene	<5	ug/l	7/17/07	7/18/07	CRT
Hexachlorobenzene	<5	ug/l	7/17/07	7/18/07	CRT
Hexachlorobutadiene	<5	ug/l	7/17/07	7/18/07	CRT
Hexachlorocyclopentadiene	<10	ug/l	7/17/07	7/18/07	CRT
Hexachloroethane	<5	ug/l	7/17/07	7/18/07	CRT
Indeno(1,2,3-c,d)pyrene	<5	ug/l	7/17/07	7/18/07	CRT
Isophorone	<5	ug/l	7/17/07	7/18/07	CRT
2-Methyl-4,6-dinitrophenol	<10	ug/l	7/17/07	7/18/07	CRT
Naphthalene	<5	ug/l	7/17/07	7/18/07	CRT
Nitrobenzene	<5	ug/l	7/17/07	7/18/07	CRT
2-Nitrophenol (o-Nitrophenol)	<5	ug/l	7/17/07	7/18/07	CRT
4-Nitrophenol	<5	ug/l	7/17/07	7/18/07	CRT
N-Nitrosodimethylamine	<5	ug/l	7/17/07	7/18/07	CRT
N-Nitrosodiphenylamine	<5	ug/l	7/17/07	7/18/07	CRT
N-Nitroso-di-n-propylamine	<5	ug/l	7/17/07	7/18/07	CRT
Pentachlorophenol	<10	ug/l	7/17/07	7/18/07	CRT
Phenanthrene	<5	ug/l	7/17/07	7/18/07	CRT
Phenol	<5	ug/l	7/17/07	7/18/07	CRT
Pyrene	<5	ug/l	7/17/07	7/18/07	CRT
1,2,4-Trichlorobenzene	<5	ug/l	7/17/07	7/18/07	CRT
2,4,6-Trichlorophenol	<5	ug/l	7/17/07	7/18/07	CRT

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Trip Blank **LSL Sample ID:** 0711449-002

Location:

Sampled: 07/12/07 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 624 Volatiles					
Benzene	<1	ug/l		7/16/07	BD
Bromodichloromethane	<1	ug/l		7/16/07	BD
Bromoform	<1	ug/l		7/16/07	BD
Bromomethane	<2	ug/l		7/16/07	BD
Carbon tetrachloride	<1	ug/l		7/16/07	BD
Chlorobenzene	<1	ug/l		7/16/07	BD
Chloroethane	<1	ug/l		7/16/07	BD
2-Chloroethylvinyl ether	<10	ug/l		7/16/07	BD
Chloroform	<1	ug/l		7/16/07	BD
Chloromethane	<1	ug/l		7/16/07	BD
Dibromochloromethane	<1	ug/l		7/16/07	BD
1,2-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,3-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,4-Dichlorobenzene	<1	ug/l		7/16/07	BD
1,1-Dichloroethane	<1	ug/l		7/16/07	BD
1,2-Dichloroethane	<1	ug/l		7/16/07	BD
1,1-Dichloroethene	<1	ug/l		7/16/07	BD
trans-1,2-Dichloroethene	<1	ug/l		7/16/07	BD
1,2-Dichloropropane	<1	ug/l		7/16/07	BD
cis-1,3-Dichloropropene	<1	ug/l		7/16/07	BD
trans-1,3-Dichloropropene	<1	ug/l		7/16/07	BD
Ethyl benzene	<1	ug/l		7/16/07	BD
Methylene chloride	<1	ug/l		7/16/07	BD
1,1,2,2-Tetrachloroethane	<1	ug/l		7/16/07	BD
Tetrachloroethene	<1	ug/l		7/16/07	BD
Toluene	<1	ug/l		7/16/07	BD
1,1,1-Trichloroethane	<1	ug/l		7/16/07	BD
1,1,2-Trichloroethane	<1	ug/l		7/16/07	BD
Trichloroethene	<1	ug/l		7/16/07	BD
Trichlorofluoromethane (Freon 11)	<1	ug/l		7/16/07	BD
Vinyl chloride	<1	ug/l		7/16/07	BD
Xylenes (Total)	<1	ug/l		7/16/07	BD
Surrogate (1,2-DCA-d4)	106	%R		7/16/07	BD
Surrogate (Tol-d8)	109	%R		7/16/07	BD
Surrogate (4-BFB)	113	%R		7/16/07	BD

LSL

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

0711449

SynapseRiskManage

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

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

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

Report Address:

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

Date Needed or Special Instructions:

Authorization or P.O. #
DANA 001-07-02

Client Project ID/Client Site ID
Leachate Sampling / 2200 Bleecker St, Utica, NY

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
LT-15	7/12/07	13:15	Grab	W	HCl	2	40 ml/ voa	VOCs by EPA Method 624		001 A B
LT-15			Grab	W	--	1	1-Liter Amber	SVOCs by EPA Method 625		C
LT-15			Grab	W	HNO_3	1	1-500 ml plastic	Select Metals by EPA Method 200.7 (Cd, Cr, Cu, Pb, Ni, Zn)		D
LT-15			Grab	W	--	1	1-Liter Amber	PCBs/Pesticides by EPA Method 608		E
LT-15			Grab	W	HCl	1	1-Liter Amber	Oil and Grease* by EPA Method 1664		F
LT-15			Grab	W	--	1	250-mil plastic	TSS by EPA Method 160.2		G
Trip Blank	↓	↓	—	W	HCL	2	40ml/VOA	VOC's		002 A B
										C D

LSL use only:

Temp. of samples:

Containers this C-O-C:

Custody Transfers

		Date	Time
Sampled By: R. Creighton	Received By:	7/13/07	8:33
Relinquished By: RB	Received By:		
Relinquished By:	Rec'd for Lab By:	07-13-07	8:33
Shipment Method:	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*****

2 ℃

Leachate Tank

LSL COC

ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL

51 Leland Ave, PO Box 442, Utica, NY 13503-0442
(315) 798-5656 wpc@ocgov.net FAX 724-9812

Anthony J. Picente, Jr.
County Executive

Steven P. Devan, P.E.
Commissioner

August 8, 2007

MR. ROGER CREIGHTON
SYNAPSE RISK MANAGEMENT LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE NY 13202

Re: Utica Holding Company Storm Sewer, Permit No.GW-050

Dear Mr. Creighton:

Analyses for sample LT-15 faxed on 08/08/07, representing 2,800 gallons of effluent water, show compliance with discharge limits specified in Permit No. GW-050 for the Utica Holding Company Storm Sewer Project. The wastewater is acceptable for discharge.

Sincerely,

THE ONEIDA COUNTY DEPARTMENT OF
WATER QUALITY & WATER POLLUTION CONTROL

RD Hoffman

R.D. Hoffman
Industrial Wastes Chemist

cc: Synapse FAX (315)-475-3780

APPENDIX D
WATER LEVEL FIELD LOGS - FORM D

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

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: 4/18/07

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	3.69	461.78	6.82	14:00	
MW-13A	10.92	10.93	469.23	2.14	467.09	8.79	11:05	
MW-14	13.00	12.87	478.37	2.99	475.38	9.88	10:06	
MW-17	11.25	11.25	466.02	11.15	454.87	0.1	12:05	
MW-18	11.73	11.72	475.96	4.72	471.24	7.00	13:20	
SCT CO-1	NA	NA	472.30	—	465.20	—	14:15	
SCT CO-2	NA	NA	473.42	7.73	465.69	—	14:25	
SCT CO-3	NA	NA	471.21	—	465.71	—	14:30	
NCT CO-1	NA	NA	464.70	—	453.42	—	14:35	
MH-2 (Collection)	12.80	NA	465.31	11.95	453.33	—	14:40	

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:

synapse

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: 10/23/07

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	3.76	461.71	6.75	14:25	
MW-13A	10.92	10.93	469.23	4.06	465.17	6.87	11:29	
MW-14	13.00	12.96	478.37	6.95	471.42	6.01	10.05	
MW-17	11.25	11.25	466.02	11.24	457.78	0.01	13.08	
MW-18	11.73	11.72	475.96	6.71	469.25	5.01	13:50	
SCT CO-1	NA	NA	472.30	—	465.20	—	14:45	
SCT CO-2	NA	NA	473.42	7.72	465.70	—	14:50	
SCT CO-3	NA	NA	471.21	—	465.71	—	14:55	
NCT CO-1	NA	NA	464.70	—	453.42	—	14:59	
MH-2 (Collection)	12.80	NA	465.31	11.98	453.33	—	15:10	

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

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

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: 4/18/07 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)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

[illegible] Gallons

Purge Volume Calculation: (10.51 - 3.69) x .163 x 3 = 3.34 Gallons
(for 2" diameter well) *TD (ft.)* *WL (ft.)* *Vol/ft.* *#VOLS* *Purge Vol.* *(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
13:20	1	6.02	0.655	6.24	11.18	7500	6.58	
13:25	2	6.03	0.635	7.91	10.47	>500	6.50	
13:35	3	5.69	0.629	9.46	6.04	442	6.51	

WELL SAMPLING

Sample ID: MW-6R (14:20) **Receiving Lab (Chain of Custody)**: _____

General Notes:

synapse

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: 4/18/07 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)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Volume Calculation: (for 2" diameter well)

(11.09 - 2.14) x .163 x 3 = 4.37 Gallons

TD (ft.) WL (ft.) Vol/ft. #VOLS Purge Vol. (Vol/ft = 0.163 for 2" OD)

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

_____ Gallons

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
12:30	1	7.39	0.557	8.75	4.80	204	6.91	
12:41	2	6.70	0.554	10.12	10.20	77.1	6.98	
12:52	3	6.71	0.548	10.98	5.04	172	7.01	

WELL SAMPLING

Sample ID: MW-13A (14:00) MS/MSD **Receiving Lab (Chain of Custody)**: _____

General Notes:

_____

_____

_____

_____

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: 4/18/07 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)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Volume Calculation: (for 2" diameter well) (12.87 (TD ft.) - 2.99 (WL ft.)) x .163 (Vol/ft.) x 3 (#VOLS) = 4.83 (Purge Vol.) Gallons (Vol/ft = 0.163 for 2" OD)

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

_____ Gallons

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:30	1	4.78	0.266	6.42	7.15	10.5	6.30	
11:40	2	4.83	0.275	8.92	1.52	10.0	6.59	
11:50	3	4.95	0.272	10.96	0.87	8.1	6.86	

WELL SAMPLING

Sample ID: MW-14 (13:20) **Receiving Lab (Chain of Custody)**: _____

General Notes:

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: 4/18/07 Well Number: MW-17

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Volume Calculation: (11.25 - 11.15) x .163 x 3 = 0.05 Gallons
(for 2" diameter well) *TD (ft.)* *WL (ft.)* *Vol/ft.* *#VOLS* *Purge Vol.* *(Vol/ft = 0.163 for 2" OD)*

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

_____ Gallons

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations

WELL SAMPLING

Sample ID: _____ **Receiving Lab (Chain of Custody)**: _____

General Notes:

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: 4/18/07 Well Number: MW-18

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (for 2" diameter well) (11.72 - 4.72) x .163 x 3 = 3.4 Gallons

TD (ft.) - WL (ft.) x Vol/ft. x #VOLS = Purge Vol. (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
14:10	1	7.10	0.655	7.14	4.60	440	6.92	Orange Color
14:16	2	6.03	0.642	8.96	1.67	53.1	6.94	Clear
14.22	3	6.67	0.639	9.23	5.45	185	7.00	Orange

WELL SAMPLING

14:40

Sample ID: MW-18(Dup-1) 041907 **Receiving Lab (Chain of Custody)**: _____

General Notes:

synapse

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: 10/23/07 Well Number: MW-6R

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (for 2" diameter well) (10.51 TD (ft.) - 3.76 WL (ft.)) x .163 Vol/ft. x 3 #VOLS = 3.3 Gallons Purge Vol. (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
14:00	1	18.8	0.557	3.76	9.81	244	7.03	
14:15	2	18.2	0.559	6.71	10.06	110	7.09	
14:20	3	17.4	0.610	7.24	10.10	109	7.12	

WELL SAMPLING

Sample ID: MW-6R (14:25) **Receiving Lab (Chain of Custody)**: Life Science Labs

General Notes: MW-6R (MS/MSD) – Metals 10/24/07

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: 10/23/07 Well Number: MW-13A

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (for 2" diameter well)

(10.93 - 4.06) x .163 x 3 = 3.4 Gallons

TD (ft.) - WL (ft.) x Vol/ft. x #VOLS = Purge Vol. (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
11:10	1	18.5	0.541	4.06	10.20	46	7.42	
11215	2	18.8	0.549	6.72	10.41	172	7.05	
11329	3	18.3	0.551	7.72	10.46	196	7.01	

WELL SAMPLING

Sample ID: MW-13A (11:29) **Receiving Lab (Chain of Custody)**: LSL

General Notes: MW-13A Metals - 10/24/07

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: 10/23/07 Well Number: MW-14

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

1.5 Gallons

Purge Volume Calculation: (for 2" diameter well)

(12.96 (TD (ft.)) - 6.95 (WL (ft.))) x .163 (Vol/ft.) x 3 (#VOLS) = 2.9 (Purge Vol.) Gallons (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
10:06	1	14.9	0.512	6.95	12.20	209	7.04	
10:15	2	14.0	0.438	11.70	11.79	9	7.12	
DRY								→

WELL SAMPLING

Sample ID: MW-14 (11:30) **Receiving Lab (Chain of Custody)**: LSL

General Notes: MW-14- Metals

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: 10/23/07 Well Number: MW-18

AIR MONITORING

PID Model: NA Background: NA ppm At Well NA ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

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

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (for 2" diameter well) (11.72 (TD (ft.)) - 6.71 (WL (ft.))) x .163 (Vol/ft.) x 3 (#VOLS) = 2.4 (Purge Vol.) Gallons (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
13:30	1	16.3	0.684	6.71	11.30	177	6.88	
13:40	2	15.4	0.676	6.93	11.42	41	6.91	
13:47	3	15.2	0.671	10.44	11.46	28	6.96	

WELL SAMPLING

Sample ID: MW-18 (13:50) **Receiving Lab (Chain of Custody)**: LSL

General Notes: MW-18 (Metals - 10/24/07

APPENDIX F
GROUNDWATER ANALYTICAL DATA

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

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: **0705819**

Receive Date/Time: 04/19/07 16:08

Project Received by: LMG

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: Brenda Cameron, QA *Date:* 5/8/07

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 5/8/07

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0705819-001

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 14:20 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/20/07	5/1/07	DJP
Copper	<0.01	mg/l	4/20/07	5/1/07	DJP
Lead	0.013	mg/l	4/20/07	5/1/07	DJP
Zinc	<0.01	mg/l	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1221	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1232	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1242	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1248	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1254	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1260	<0.1	ug/l	4/26/07	4/26/07	CRT
Surrogate (DCB)	92	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	<1	ug/l		4/21/07	BD
Trichloroethene	<1	ug/l		4/21/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
Surrogate (1,2-DCA-d4)	101	%R		4/21/07	BD
Surrogate (Tol-d8)	108	%R		4/21/07	BD
Surrogate (4-BFB)	94	%R		4/21/07	BD

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-13A **LSL Sample ID:** 0705819-002

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 14:00 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/20/07	5/1/07	DJP
Copper	<0.01	mg/l	4/20/07	5/1/07	DJP
Lead	0.013	mg/l	4/20/07	5/1/07	DJP
Zinc	0.024	mg/l	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1221	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1232	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1242	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1248	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1254	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1260	<0.1	ug/l	4/26/07	4/26/07	CRT
Surrogate (DCB)	79	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	<1	ug/l		4/20/07	BD
Trichloroethene	<1	ug/l		4/20/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/20/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/20/07	BD
Surrogate (1,2-DCA-d4)	103	%R		4/20/07	BD
Surrogate (Tol-d8)	107	%R		4/20/07	BD
Surrogate (4-BFB)	94	%R		4/20/07	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 **LSL Sample ID:** 0705819-003

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 13:20 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/20/07	5/1/07	DJP
Copper	<0.01	mg/l	4/20/07	5/1/07	DJP
Lead	<0.01	mg/l	4/20/07	5/1/07	DJP
Zinc	<0.01	mg/l	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1221	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1232	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1242	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1248	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1254	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1260	<0.1	ug/l	4/26/07	4/26/07	CRT
Surrogate (DCB)	80	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	<1	ug/l		4/21/07	BD
Trichloroethene	<1	ug/l		4/21/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
Surrogate (1,2-DCA-d4)	100	%R		4/21/07	BD
Surrogate (Tol-d8)	107	%R		4/21/07	BD
Surrogate (4-BFB)	94	%R		4/21/07	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-18 **LSL Sample ID:** 0705819-004

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 14:40 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/20/07	5/1/07	DJP
Copper	<0.01	mg/l	4/20/07	5/1/07	DJP
Lead	0.014	mg/l	4/20/07	5/1/07	DJP
Zinc	<0.01	mg/l	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1221	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1232	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1242	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1248	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1254	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1260	<0.1	ug/l	4/26/07	4/26/07	CRT
Surrogate (DCB)	106	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	7.5	ug/l		4/21/07	BD
Trichloroethene	<1	ug/l		4/21/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
Surrogate (1,2-DCA-d4)	99	%R		4/21/07	BD
Surrogate (Tol-d8)	107	%R		4/21/07	BD
Surrogate (4-BFB)	94	%R		4/21/07	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: **Dup-1 041907** **LSL Sample ID:** **0705819-005**

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 0:00 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	4/20/07	5/1/07	DJP
Copper	<0.01	mg/l	4/20/07	5/1/07	DJP
Lead	0.014	mg/l	4/20/07	5/1/07	DJP
Zinc	<0.01	mg/l	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1221	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1232	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1242	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1248	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1254	<0.1	ug/l	4/26/07	4/26/07	CRT
Aroclor-1260	<0.1	ug/l	4/26/07	4/26/07	CRT
Surrogate (DCB)	72	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	7.4	ug/l		4/21/07	BD
Trichloroethene	<1	ug/l		4/21/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
Surrogate (1,2-DCA-d4)	99	%R		4/21/07	BD
Surrogate (Tol-d8)	107	%R		4/21/07	BD
Surrogate (4-BFB)	96	%R		4/21/07	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: **MW-13A Matrix Spike** **LSL Sample ID:** **0705819-006**

Location: 2200 Bleecker St., Utica

Sampled: 04/19/07 0:00 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	105	%R	4/20/07	5/1/07	DJP
Copper	98	%R	4/20/07	5/1/07	DJP
Lead	96	%R	4/20/07	5/1/07	DJP
Zinc	97	%R	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016			4/26/07	4/26/07	CRT
Aroclor-1221			4/26/07	4/26/07	CRT
Aroclor-1232			4/26/07	4/26/07	CRT
Aroclor-1242	114	%R	4/26/07	4/26/07	CRT
Aroclor-1248			4/26/07	4/26/07	CRT
Aroclor-1254			4/26/07	4/26/07	CRT
Aroclor-1260			4/26/07	4/26/07	CRT
Surrogate (DCB)	95	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	96	%R		4/20/07	BD
Trichloroethene	97	%R		4/20/07	BD
trans-1,2-Dichloroethene	90	%R		4/20/07	BD
cis-1,2-Dichloroethene	89	%R		4/20/07	BD
Surrogate (1,2-DCA-d4)	102	%R		4/20/07	BD
Surrogate (Tol-d8)	102	%R		4/20/07	BD
Surrogate (4-BFB)	90	%R		4/20/07	BD

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: MW-13A Matrix Spike Duplicate **LSL Sample ID:** 0705819-007
Location: 2200 Bleecker St., Utica
Sampled: 04/19/07 0:00 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	24	RPD	4/20/07	5/1/07	DJP
Copper	26	RPD	4/20/07	5/1/07	DJP
Lead	5.4	RPD	4/20/07	5/1/07	DJP
Zinc	38	RPD	4/20/07	5/1/07	DJP
(1) EPA 8082 PCB's					
Aroclor-1016			4/26/07	4/26/07	CRT
Aroclor-1221			4/26/07	4/26/07	CRT
Aroclor-1232			4/26/07	4/26/07	CRT
Aroclor-1242	<1	RPD	4/26/07	4/26/07	CRT
Aroclor-1248			4/26/07	4/26/07	CRT
Aroclor-1254			4/26/07	4/26/07	CRT
Aroclor-1260			4/26/07	4/26/07	CRT
Surrogate (DCB)	71	%R	4/26/07	4/26/07	CRT
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	6	RPD		4/20/07	BD
Trichloroethene	2	RPD		4/20/07	BD
trans-1,2-Dichloroethene	2	RPD		4/20/07	BD
cis-1,2-Dichloroethene	2	RPD		4/20/07	BD
Surrogate (1,2-DCA-d4)	101	%R		4/20/07	BD
Surrogate (Tol-d8)	103	%R		4/20/07	BD
Surrogate (4-BFB)	91	%R		4/20/07	BD

Sample ID: Trip Blank **LSL Sample ID:** 0705819-008
Location:
Sampled: 04/19/07 0:00 **Sampled By:**
Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B Volatiles (Partial List)					
Vinyl chloride	<1	ug/l		4/21/07	BD
Trichloroethene	<1	ug/l		4/21/07	BD
trans-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
cis-1,2-Dichloroethene	<1	ug/l		4/21/07	BD
Surrogate (1,2-DCA-d4)	101	%R		4/21/07	BD
Surrogate (Tol-d8)	107	%R		4/21/07	BD
Surrogate (4-BFB)	94	%R		4/21/07	BD

LSL

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
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

0705819

SynapseRiskManage

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

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

Fax: 585-554-6745

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

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

Date Needed or Special Instructions:

Authorization or P.O. #
DANA 01-07 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 grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	4/19/07	14:20	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		001AB
MW-6R		14:20	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		001C
MW-13A		14:00	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		002AB
MW-13A		14:00	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		002C
MW-14		13:20	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		003AB
MW-14		13:20	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		003C
MW-18		14:40	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		004AB
MW-18		14:40	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		004C
041907 Dup			Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		005AB
041907 ↓			Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		005C
MS/MSD MW-13A			Grab	W	HCl	4	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		006AB 007AB
MS/MSD MW-13A			Grab	W	--	2	1-Liter Amber	PCBs by EPA Method 8082		006C 007C
Trip Blank			—	W	HCL	2	40ml/VOA	VOC's		008AB

LSL use only:

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

Custody Transfers

		Date	Time
Sampled By: R. Creighton	Received By:	4/19/07	16:10
Relinquished By:	Received By:		
Relinquished By:	Rec'd for Lab By: 04-19-07 16:08 RCVD		
Shipment Method:	Received Intact: Y N		1.8°C

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

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

LSL North Lab.
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0705819

SynapseRiskManage

Fax: 585-554-6743

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

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@synapseriskmanagement.com

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 grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	4/19/07	14:20	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		001D
MW-13A		14:00	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		002D
MW-14		13:20	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		003D
MW-18		14:40	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		004D
Dup-1 041907			Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		005D
MS/MSD MW-13A			Grab	W	HNO_3	2	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		006D 007D

LSL use only:

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

Custody Transfers

		Date	Time
Sampled By: R. Creighton	**Received By:**	4/19/07	16:10
Relinquished By:	**Received By:**		
Relinquished By:	**Rec'd for Lab By:** 04-19-07	16:08 RCVD	
Shipment Method:	Received Intact: (Y) N	1.8°C	

***** 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 01-07 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: **0718825**

Receive Date/Time: 10/23/07 15:55

Project Received by: RD

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: Cindy Conway, QA *Date:* 11/06/07
Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 11/6/07

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0718825-001

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 14:25 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	<1	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	103	%R		10/24/07	BD
Surrogate (Tol-d8)	103	%R		10/24/07	BD
Surrogate (4-BFB)	98	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1221	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1232	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1242	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1248	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1254	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1260	<0.1	ug/l	10/30/07	11/2/07	KIS
Surrogate (DCB)	112	%R	10/30/07	11/2/07	KIS

Sample ID: MW-13A **LSL Sample ID:** 0718825-002

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 12:30 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	<1	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	101	%R		10/24/07	BD
Surrogate (Tol-d8)	101	%R		10/24/07	BD
Surrogate (4-BFB)	96	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1221	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1232	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1242	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1248	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1254	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1260	<0.1	ug/l	10/30/07	11/2/07	KIS
Surrogate (DCB)	105	%R	10/30/07	11/2/07	KIS

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 **LSL Sample ID:** 0718825-003

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 11:30 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	<1	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	105	%R		10/24/07	BD
Surrogate (Tol-d8)	101	%R		10/24/07	BD
Surrogate (4-BFB)	96	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1221	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1232	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1242	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1248	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1254	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1260	<0.1	ug/l	10/30/07	11/2/07	KIS
Surrogate (DCB)	86	%R	10/30/07	11/2/07	KIS

Sample ID: MW-18 **LSL Sample ID:** 0718825-004

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 13:50 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	17	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	103	%R		10/24/07	BD
Surrogate (Tol-d8)	103	%R		10/24/07	BD
Surrogate (4-BFB)	98	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1221	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1232	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1242	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1248	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1254	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1260	<0.1	ug/l	10/30/07	11/2/07	KIS
Surrogate (DCB)	101	%R	10/30/07	11/2/07	KIS

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: 102307 - Duplicate **LSL Sample ID:** 0718825-005

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 0:00 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	17	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	103	%R		10/24/07	BD
Surrogate (Tol-d8)	100	%R		10/24/07	BD
Surrogate (4-BFB)	95	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1221	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1232	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1242	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1248	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1254	<0.1	ug/l	10/30/07	11/2/07	KIS
Aroclor-1260	<0.1	ug/l	10/30/07	11/2/07	KIS
Surrogate (DCB)	97	%R	10/30/07	11/2/07	KIS

Sample ID: MW-6R Matrix Spike **LSL Sample ID:** 0718825-006

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 14:25 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	92	%R		10/24/07	BD
trans-1,2-Dichloroethene	95	%R		10/24/07	BD
Trichloroethene	101	%R		10/24/07	BD
Vinyl chloride	102	%R		10/24/07	BD
Surrogate (1,2-DCA-d4)	100	%R		10/24/07	BD
Surrogate (Tol-d8)	102	%R		10/24/07	BD
Surrogate (4-BFB)	91	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016			10/30/07	11/2/07	KIS
Aroclor-1221			10/30/07	11/2/07	KIS
Aroclor-1232			10/30/07	11/2/07	KIS
Aroclor-1242			10/30/07	11/2/07	KIS
Aroclor-1248			10/30/07	11/2/07	KIS
Aroclor-1254	66	%R	10/30/07	11/2/07	KIS
Aroclor-1260			10/30/07	11/2/07	KIS
Surrogate (DCB)	92	%R	10/30/07	11/2/07	KIS

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Trip Blank **LSL Sample ID:** 0718825-007

Location:

Sampled: 10/23/07 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
trans-1,2-Dichloroethene	<1	ug/l		10/24/07	BD
Trichloroethene	<1	ug/l		10/24/07	BD
Vinyl chloride	<1	ug/l		10/24/07	BD
Surrogate (1,2-DCA-d4)	105	%R		10/24/07	BD
Surrogate (Tol-d8)	101	%R		10/24/07	BD
Surrogate (4-BFB)	97	%R		10/24/07	BD

Sample ID: MW-6R Matrix Spike Duplicate **LSL Sample ID:** 0718825-008

Location: 2200 Bleecker St., Utica, NY

Sampled: 10/23/07 14:25 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	1	RPD		10/24/07	BD
trans-1,2-Dichloroethene	3	RPD		10/24/07	BD
Trichloroethene	<1	RPD		10/24/07	BD
Vinyl chloride	5	RPD		10/24/07	BD
Surrogate (1,2-DCA-d4)	92	%R		10/24/07	BD
Surrogate (Tol-d8)	102	%R		10/24/07	BD
Surrogate (4-BFB)	92	%R		10/24/07	BD
(1) EPA 8082 PCB's					
Aroclor-1016			10/30/07	11/2/07	KIS
Aroclor-1221			10/30/07	11/2/07	KIS
Aroclor-1232			10/30/07	11/2/07	KIS
Aroclor-1242			10/30/07	11/2/07	KIS
Aroclor-1248			10/30/07	11/2/07	KIS
Aroclor-1254	11	RPD	10/30/07	11/2/07	KIS
Aroclor-1260			10/30/07	11/2/07	KIS
Surrogate (DCB)	94	%R	10/30/07	11/2/07	KIS

Life Science Laboratories, Inc

CHAIN OF CUSTODY RECORD

0718825

SynapseRiskManage

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

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

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 L
30 East Main St.
Cuba, NY 14727
Phone: 585-968-264
Fax: 585-968-264

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

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

Date Needed or Special Instructions:

Authorization or P.O. # DANA 01-07 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 grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	10/23/07	14:25	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		001 A B
MW-6R		14:25	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-13A		12:30	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		002 A B
MW-13A		12:30	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 A B
MW-14		11:30	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		C
MW-18		13:50	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		004 A B
MW-18		13:50	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		C
102307-Dup		—	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		005 A B
10 2307-Dup		—	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		C
MS/MSD MW-6R		14:25	Grab	W	HCl	4	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		MS 006 A B 008 A B MSD
MS/MSD MW-6R		14:25	Grab	W	–	2	1-Liter Amber	PCBs by EPA Method 8082		C 008 C
Trip Blank		11:30	—	W	HCl	2	40ml/VOA	VOC's		007 A B

LSL use only:

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

Custody Transfers

		Date	Time
Sampled By: R. Creighton	Received By:	10/23/07	15:55
Relinquished By:	Received By:		
Relinquished By:	Rec'd for Lab By: R Dunbar		
Shipment Method:	Received Intact: Y N		

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in

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: **0718918**

Receive Date/Time: 10/24/07 15:22

Project Received by: GS

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: Craig Gauthier, QA *Date:* 11/02/07
Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 11/1/07

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0718918-001
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:45 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	<0.01	mg/l	10/25/07	10/29/07	DJP

Sample ID: MW-13A **LSL Sample ID:** 0718918-002
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:20 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	<0.01	mg/l	10/25/07	10/29/07	DJP

Sample ID: MW-14 **LSL Sample ID:** 0718918-003
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:00 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	<0.01	mg/l	10/25/07	10/29/07	DJP

Sample ID: MW-18 **LSL Sample ID:** 0718918-004
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:35 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	<0.01	mg/l	10/25/07	10/29/07	DJP

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Duplicate - 1 **LSL Sample ID:** 0718918-005
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 0:00 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	<0.01	mg/l	10/25/07	10/29/07	DJP

Sample ID: MW-6R Matrix Spike **LSL Sample ID:** 0718918-006
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:45 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	0.047	mg/l	10/25/07	10/29/07	DJP

Sample ID: MW-6R Matrix Spike Duplicate **LSL Sample ID:** 0718918-007
Location: 2200 Bleecker St., Utica
Sampled: 10/24/07 13:45 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Total Metals					
Chromium	<0.01	mg/l	10/25/07	10/29/07	DJP
Copper	<0.01	mg/l	10/25/07	10/29/07	DJP
Lead	<0.01	mg/l	10/25/07	10/29/07	DJP
Zinc	0.040	mg/l	10/25/07	10/29/07	DJP

Life Science Laboratories, Inc.
CHAIN OF CUSTODY RECORD

0718918
SynapseRiskManage

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

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

5611 Water St.
Middlesex, NY 14507
Phone: 585-554-5347
Fax: 585-554-6743

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@synapseriskmanagement.com

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

Turnaround Time
Normal: 14 DAY [X]
Pre-Authorized: 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

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	10/24/07	13:45	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		001
MW-13A	↓	13:20	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		002
MW-14	↓	13:00	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		003
MW-18	↓	13:35	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		004
Dup-1	↓	—	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		005
MS/MSD MW-6R	↓	13:45	Grab	W	HNO_3	2	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		006
↳										007

LSL use only:
Temp. of samples:
Containers this C-O-C:

Custody Transfers

			Date	Time
Sampled By: R. Creighton	Received By:		10/24/07	15:22
Relinquished By: [signature]	Received By:			
Relinquished By:	Rec'd for Lab By: [signature]			
Shipment Method:	Received Intact: Y (N)		2.3°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 ***

LSL COC

See Initials

APPENDIX G
GROUNDWATER TREATMENT SYSTEM INSPECTION LOGS

2007 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

MARCH 2008

0430-007

Chicago Pneumatic

Utica, NY

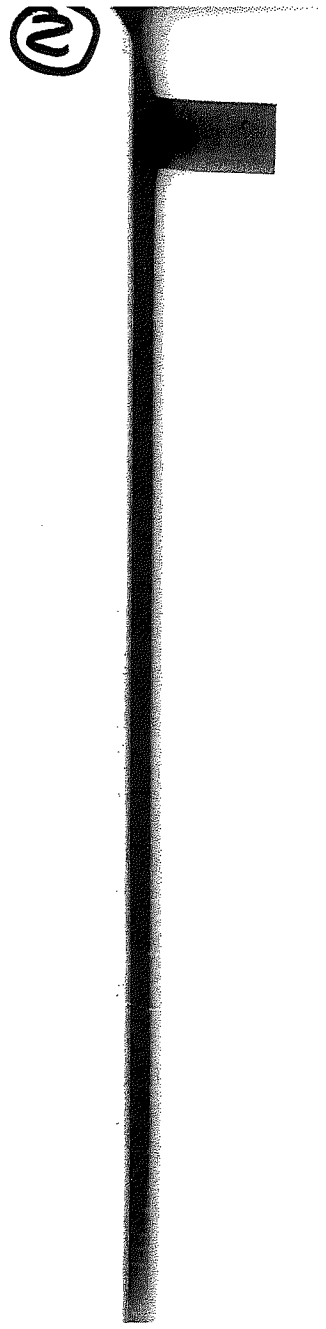
1/2006 - 5/2007

"Rite in the Rain"

ALL-WEATHER

FIELD BOOK

No. 350 NF



1/02/07 45° CLOUDY

09:00 ON SITE

CHECK SYSTEM - SYSTEM OPERATING
CHECK H2O DEPTH IN M.H's
MH1 - 54" FROM M.H. Lyon
MH2 - 68" FROM M.H. Rim

CHANGE OUT BAG FILTER IN P1
CANNISTER

READINGS
MH1 77653 g
MH2 1963 g
FS 43 g
(SYSTEM) 143434 g

Mag Ga 28"
CYCLED OFF @ 11:00
ON @ 11:40

P1 18 psi
P2 20 psi

OFF SITE 12:30 A

Cloudy 55°

1/05/07
11:00 Massena & Lamphere on site

Readings:

MH 1	89445 gal.
MH 2	2442 gal.
FS	43 gal.
System Mtr.	171353 gal. 165500 gal.

Tank Inventory: 1500 gal

Primary Filter pressure - 20 psi
Secondary Filter pressure - 14 psi

12:30 Changed both filters

Sampled @ MH1 & MH2 & effluent

Distance from MH2 rim to water surface 87"

Offsite @ 14:45

1/11/07 36°/CLOUDY

0930 ON-SITE JEFF LAMPHERE/MIKE MASSENA

CHECK SYSTEM OPERATION AND PERFORM WEEKLY EFFLUENT SAMPLING

PERM1) MH1: 123,678
(PERM2) MH2: 2966
PERM1) FS: 43
PERM2) SYSTEM: 236,003
MTR: 227,800

TANK INVENTORY: 1900 GAL

PRIMARY FILTER PRESSURE: 18 psi

SECONDARY FILTER PRESSURE: 14 psi

MH2 - 68" FROM MH RIM

- DRILLED HOLES IN EQ TANK DROP TUBE
- CHECKED CLEANOUT IN "SECRET ROOM"
- INSTALL STRAINER IN PUMP 6B

1/17

0930 Onsite to meet Paragon to clean out MH2 line (Brett, Andy)

MH1: 167559
MH2: 3093
FS: 43
System: 307891
MTR:

Tank Inventory: 1650 gal

1000 Replaced primary bag filter

1100 Snaked MH2 line from locked room - found a lot of soft buildup

- Bled air from line @ cleanout seemed to make a difference in flow rate - getting consistent reading at of MH2 flowmeter

1730 Checked level in MH2 - down 6" from 10:00

Getting consistent flow of 4gpm from MH 2 with both pumps on

- when turning pump #4 off, there is no change in flow. Turning pump 3 off reduces flow

offsite @ 1400

MJMassenz

1/22/07 25°/Cloudy

0915 ON SITE: JEFF LAMPHERE

CHECK SYSTEM OPERATION & PERFORM WEEKLY EFFLUENT SAMPLING

MH 1 (PERM 1): 191206
MH 2 (PERM 2): 8520
FS (PERM 1): 43
SYSTEM (PERM 2): 371606
MTR: 357,400

TANK INVENTORY: 1300 GAL.

MH 2: 118" FROM MH RIM

- CHANGED PRIMARY BAG FILTER

- BLED AIR IN PIPING VIA SECRET ROOM CLEANOUT

1140 OFF SITE

1/26/07 0°F/Sunny

0920 ON SITE: JEFF LAMPHERE

CHECK SYSTEM OPERATION & GRAB EFFLUENT PH SAMPLE

MH 1 (PERM 1): 204,600
MH 2 (PERM 2): 8694
FS (PERM 1): 43
SYSTEM (PERM 2): 412,897
MTR: 396,800

TANK INVENTORY: 1900 GALLONS

MH2: 150" FROM RIM

- BLED AIR FROM INFLUENT LINE VIA "SECRET ROOM" CLEANOUT

- PULLED ON CHAINS IN MH2 TO FREE UP ANY SEDIMENTS IN THE PUMPS

1105 OFF SITE

10° Sunny

1/29 onsite @ 9:30

MH1 226256
MH2 6206
MH1 Eff 41638

9:30 Replaced bag filter

1000 Replaced bag filter - only 900 gallons on last run - heavy iron/silt

10:30 Replaced bag filter (600 gal) 4/8/85

10:42 Replaced bag filter (600 gal) 418882

11:00 Replaced both bag filters (350 gal) 419236

11:45 checked level in MH2 60" to water

11:51 replaced filter

12:15 left site

1/30/07 20° cloudy

1600 JEFF LAMPHERE ON-SITE

CHECK SYSTEM AND CHANGE BAG FILTER.

MH 1 (PERM 1) 215,041
MH 2 (PERM 2) 8972
FS (PERM 1) 43
SYSTEM (PERM 2) 427,755
MTR: 410,900

TANK INVENTORY: 2400 GALLONS

~~MH 2: From MH RIM~~ (JDL)

1615 CHANGE PRIMARY BAG FILTER AGAIN

1632 CHANGE PRIMARY BAG FILTER (3RD TIME)

1710 CHANGE PRIMARY BAG FILTER (4TH TIME)

1805 OFF SITE

1/31/07 20° cloudy

1135 JEFF LAMPHERE ON-SITE

CHECK SYSTEM AND CHANGE BAG FILTER

MH 1 (PERM 1): 215,592
MH 2 (PERM 2) 10,401
FS (PERM 1): 68
SYSTEM (PERM 2): 430,457
MTR: 413,600

TANK INV: 1800 GALLONS

1140: REMOVED PRIMARY AND SECONDARY BAG FILTERS AND RAN SYSTEM FILTERLESS

1322 MH2: 101" FROM MH RIM

1535 MH2: ~126" FROM MH RIM

1550 OFF SITE - NO FILTERS IN SYSTEM
WILL RETURN TOMORROW W/ PARAGON.

2/1/07

0835 JEFF LAMPHERE ON-SITE W/ (3) PARAGON REPRESENTATIVES.

0845 BEGIN PUMPING MANHOLE 2 DRY W/ VAC TRUCK.

MH1 : 219763
MH2 : 21520
FS : 75
SYSTEM 448,554
MTR : 430,960

TANK INVENTORY: 1750 GALLONS

0910 ANDY (PARAGON REPRESENTATIVE) STATED THERE WAS APPROXIMATELY 3" OF SLUDGE IN THE BOTTOM OF THE MANHOLE. ALSO, THERE WAS WATER LEAKING FROM THE PIING UNIONS IN THE MANHOLE. ANDY TIGHTENED THESE UNIONS WITH A PIPE WRENCH AND REMOVED THE REMAINING SLUDGE FROM THE BASE OF THE MANHOLE

0935 OFF SITE TO PURCHASE UNION FOR MH2 CLEAN-OUT AND (2) SAMPLE PORTS FOR INFLUENT.

1020 ON SITE → ANDY SNAKED MH2 LINE AND INSTALLED UNION.

1058 INSTALLATION OF CHECK VALVE IN "SECRET ROOM"

1230 INSTALLATION OF INFLUENT SAMPLING PORTS FOR MH1 + MH2

1250 CHECK PUMP 3 + PUMP 4 FLOW RATES (VISUALLY) OUT OF MH2 APPEAR EQUAL AND ADEQUATE. PARAGON OFF-SITE

1405 PUT BAG FILTERS BACK IN SYSTEM AND RAN

1500 OFF SITE

JDL

2/2/07 30°/cloudy

1225 JEFF LAMPHERE ON-SITE

MH1: 222,458
MH2: 22,051
FS: 92
SYSTEM: 453,413
METER: 435,500

TANK INVENTORY: 2350 GALLONS

1235 FILTER PRESSURE ALARM → REMOVED BAG FILTERS AND RAN SYSTEM.

1450 ATTEMPTED TO RUN SYSTEM WITH BAG FILTERS INSTALLED BUT CONTINUED TO TRIP ALARM FOR HIGH PRESSURE. DUE TO THE CURRENT STATE OF THE GW THE SYSTEM WILL BE RUN WITHOUT BAG FILTERS THROUGH THE WEEKEND

1955 OFF-SITE

2/8/07 20°/Snowy

0800 JEFF LAMPHERE ON SITE TO MEET WITH ANDY (PARAGON REPRESENTATIVE) REGARDING AIR STRIPPER CLEANING. AND TO PERFORM MONTHLY SAMPLING EVENT.

MH1: 235,863
MH2: 32,938
FS: 102
SYSTEM: 500,330
METER: 480,100

TANK INV: 1700 GALLONS

1035 OFF-SITE

2/9/07

1120 RAY SMITH ON SITE TO MEET PARAGON FOR AIR STRIPPER DISMANTLING & CLEANING. 20° SNOW

1135 ANDY PICKERD OF PARAGON WITH 5 WORKERS ON SITE. SAFETY MEETING CONDUCTED.

1226 A/S & EQ PUMP RUN IN HAND MODE TO DRAIN EQ TANK FROM 1800 GAL. TO 900 GAL. PANELS DE-ENERGIZED. PARAGON BEGIN REMOVING A/S PIPING.

1330 THREE TRAYS REMOVED AND PLACED ON FLOOR TO DRY. BOTTOM TRAY BRACED UP FROM BOTTOM UNIT TO DRY.

1400 SITE SECURED. ALL PERSONNEL OFF SITE.

2/9/07

2/12/07 30°/cloudy

0800 JEFF LAMPHERE ON SITE FOR AIR STRIPPER CLEANING. PARAGON ON-SITE w/ 3 REPRESENTATIVES

0900 JEFF LAMPHERE OFF SITE

2/13/07 0° Cloudy
TOO Denise Sero on site
Conduct H&S briefing w/
Paragon Env Const
Andy Pickerd
Bill Hajdasz
Craig Reles
Comm'td any blank H&S briefing sign-in sheets. Topics covered - HASP, lifting & back safety, weather (Nat. Weather Svc issued winter storm warning ~100% chance of snow + "blizzard like conditions" starting @ ~1500 will endeavor to get on road by ~1530)
1520 all offsite

2/13/07

2/14/07 20°, SNOW

0830 ON SITE W/PARAGON, COMPLETING CLEANING AND REASSEMBLY OF A/S UNIT. CONDUCTED H+S MEETING.

1100 PARAGON COMPLETED REASSEMBLY + FIXED MINOR LEAKS. SYSTEM RUN IN HAND MODE TO TEST FOR LEAKS. ANDY PICKERD ADJUSTED BLOWER IMPELLENT TO FIX A/S LOW AIR PRESSURE CONDITION. BAG FILTERS PUT IN FILTER UNITS. SYSTEM NOW IN FULL AUTO MODE. PARAGON OFF SITE. PARAGON ALSO CLEANED A/S TRENCH DRAIN + SUMP.

1110 FILTER PRESSURE 1= 16 psi, 2=12 psi. MANHOLE 1 & MH2 HIGH SUMP LEVEL LIGHTS ON. EQ PUMP 6B ON. 6A IS OFF.

1130 EQ TANK HIGH SUMP LEVEL LIGHT ON. MH PUMPS SHUT OFF. EQ PUMP 6B AND A/S ON. BAG FILTER 1=21 psi, 2=10 psi.

1140 EQ TANK LEVEL PUMPED DOWN TO 1000 GAL. MH PUMPS TURN ON. EQ PUMP 6B TURNS OFF. EQ TANK HIGH SUMP LEVEL LIGHT STILL ON. A/S ON.

1145 SPOKE W/LUKE MCKINNEY. RESET SYSTEM RS.

2/14/07

MH 1 HIGH SUMP LEVEL LIGHT OFF. EQ TANK HIGH SUMP LEVEL LIGHT OFF. MH PUMPS 1, 3 + 4 ON. EQ TANK FILLING.

1150 EQ TANK AT 2000 GAL. EQ PUMP 6A ON. EQ TANK STILL FILLING FASTER THAN EQ PUMP CAN EMPTY. BAG FILTER 1 = 22 psi, 2=9 psi.

1235 EQ TANK FILLING. 1900 GAL. MH PUMPS 3 + 4 ON. EQ PUMPS OFF. A/S OFF. MH PUMPS 1 + 2 OFF. MH2 HIGH SUMP LEVEL LIGHT ON. ALL OTHER LIGHTS OFF.

1242 EQ TANK 1,980 GAL. A/S + EQ PUMP 6B ON. MH PUMPS 3 + 4 ON. MH 2 HIGH SUMP LEVE LIGHT ON. BF 1 = 23 psi, BF 2 = 8 psi. EQ TANK LEVEL DROPPING.

1256 BF 1 = 30 psi, BF 2 = 1 psi. EQ TANK AT 1,100 GAL.

1305 CHANGED BAG FILTERS. EQ TANK FILLING.

1338 A/S ON. EQ 6A ON. MH PUMPS 1, 3+4 ON. BF 1 = 14 psi, BF 2 = 12 psi. EQ DROPPING

1345 ALL LOOKS GOOD CLOSE PANEL + LOCK UP OFF SITE.

2/15/07 15°/SUNNY

0915 JEFF LAMPHERE AND RAY SMITH ON-SITE. REVIEWED SYSTEM OPERATIONS WITH RAY. WENT OVER WEEKLY/MONTHLY SAMPLING EVENT PROCEDURES AS WELL.

1035 RAY SMITH OFF SITE

1100 WEEKLY SAMPLING PERFORMED AND BAG FILTERS CHANGED.

1215 SYSTEM APPEARS TO BE STABLE AT THIS TIME. BAG FILTER PRESSURE IS REMAINING CONSISTANT @ APROX. 14-16 PSI. EQ TANK INFLUENT APPEARS TO BE CONSIDERABLY LESS TURBID AT THIS TIME.

1230 ~~OFF SITE~~ @

MH1: 248,284
MH2: 44,043
FS: 102
SYSTEM: 532,945
METER: 511,100

1250 OFF SITE

2/20/07 40°/CLOUDY

0915 JEFF LAMPHERE ON-SITE FOR WEEKLY SAMPLING EVENT AND SYSTEM CHECK-UP.

MH1: 257,969
MH2: 48,346
FS: 102
SYSTEM: 564,969
METER: 541,200

0955 SAMPLING ON AIR STRIPPER EFFLUENT PERFORMED

1025 ATTEMPTED TO TIGHTEN LEAKING CHECK VALVE IN "SECRET ROOM". APPEARS TO STILL BE LEAKING - WILL CONTACT PARAGON

1105 CHANGED BAG FILTERS - NO ALARMS - PREVENTATIVE MAINTENANCE

1210 OFF-SITE

2/27/07 38°/CLOUDY

0905 JEFF LAMPHERE ON-SITE FOR WEEKLY EFFLUENT SAMPLING EVENT AND SYSTEM CHECK-UP.

0939 WEEKLY SAMPLING PERFORMED

1025 BAG FILTER CHANGED (PRIMARY)

1105 MH1: 271,758
MH2: 52,627
FS: 102
SYSTEM: 609,233
METER: 583,100

1110 OFF SITE

3/6/07 5°/SUNNY

1300 JEFF LAMPHERE ON-SITE FOR MONTHLY SAMPLING AND TO CLEAR ALARMS AND RE-START SYSTEM. BAG FILTER HIGH PRESSURE ALARM "ON" CHANGED BAG FILTER AND RE-STARTED SYSTEM. (PRIMARY FILTER ONLY CHANGED)

MH1: 278,028
MH2: 53,885
FS: 104
SYSTEM: 627,555
METER: 600,380

TANK: 1200 GALLONS

1347 HIGH PRESSURE BAG FILTER ALARM → CHANGED FILTER

1414 HIGH PRESSURE BAG FILTER ALARM → CHANGED FILTER

1505 HIGH PRESSURE BAG FILTER AL[illegible] → CHANGED FILTER

15⁴⁰ OFF SITE

3-7-07 20°/SUNNY

11¹⁰ JEFF LAMPHERE ON-SITE TO ADDRESS ALARM CONDITION → CHANGED BAG FILTER AND RE-STARTED SYSTEM

12⁰⁰ ALARM COND → HIGH BAG FILTER PRESS. CHANGED PRIMARY FILTER

17⁵⁵ ALARM COND → HIGH BAG FILTER PRESS. CHANGED PRIMARY FILTER

17⁴⁰ RESET HIGH SUMP LEVEL ALARM FOR THE EQ TANK

MH1: 290,897
MH2: 55,346
FS: 104
SYSTEM: 642,083
METER: 614,000

14⁵⁰ PRIMARY FILTER 24 PSI
SECONDARY " 20 PSI

15²⁵ OFF SITE

3/15/07

0800 RAY SMITH ON SITE. A/S BLOWER RUNNING. MH-1, MH-2, EQ TANK HIGH, FLOOR SUMP HIGH WARNING LIGHTS ON. CHANGED PRIMARY BAG FILTER. TURNED OFF A/S BLOWER.

MH-1: 309,643
MH-2: 67,507
FS: 104
SYSTEM: 699,681
METER: 668,400

FLOOR SUMP 2 INCHES FROM TOP. EQ TANK FULL TO TOP. RUN EQ TANK PUMP 6A & SUMP PUMP IN HAND UNTIL LEVELS DROP. RESET SYSTEM. ALL SWITCHES GREEN. MH-1 & MH-2 HIGH LEVELS STILL ON.

3/15/07

0900 PRIMARY BF = 26 psi
SECONDARY BF = 21 psi
COLLECT EFFLUENT SAMPLES FOR TCE, DCE, & V.C.

0910 HIGH EQ TANK LEVEL. PRIMARY B.F. AT 35 psi. B.F. HIGH PRESSURE ALERT. CHANGE PRIMARY B.F. & RESET.

0930 HIGH B.F. PRESSURE. CHANGE PRIMARY B.F. RESET SYSTEM.

955 HIGH B.F. PRESSURE. CHANGE PRIMARY B.F. RESET SYSTEM. CALLED LUKE McKENNEY

1030 HIGH B.F. PRESSURE. CHANGE PRIMARY & SECONDARY B.F. RESET SYSTEM.
PRIMARY B.F. = 15 psi
SECONDARY B.F. = 12 psi.
SYSTEM = 706,908 GALLONS.

1100 PRIMARY B.F. = 19 psi
SECONDARY B.F. = 11 psi
SYSTEM = 710900 GAL
OFFSITE

3/16/07

0800 HIGH B.F. PRESSURE. CHANGE PRIMARY B.F. & RESET. SYSTEM = 726,615 GAL.
P.B.F. = 16 psi S.B.F. = 13 psi

0900 MH-1 & MH-2 HIGH SUMP ALERTS ON. EQ TANK FILLED & HIGH EQ LEVEL ON. MH PUMPS 1 & 2 SHUT OFF. MH PUMPS 3 & 4 SHUT OFF BUT SWITCHES FLASH GREEN & CAN HEAR RELAYS CLICKING IN LEFT PANEL BOX.

0905 EQ TANK PUMPED DOWN TO 1,000 GAL. MH PUMPS 1-4 TURN ON (3 & 4 STOP FLASHING) EQ PUMP 6A OFF. EQ TANK LEVEL HIGH STILL ON. RESET & EQ HIGH LEVEL TURNS OFF.

0910 EQ TANK AT APPROX 2,000 GAL. EQ PUMP 6B ON. P.B.F. = 17 psi S.B.F. = 13 psi SYSTEM = 729,300. EQ TANK STILL FILL W/ EQ PUMP 6B ON.

0925 HIGH EQ LEVEL ON. 2350 GAL MH PUMPS OFF. MH PUMPS 3 & 4 FLASH & TRIPPING SWITCH. EQ TANK PUMPING DOWN. P.B.F. = 18 psi S.B.F. = 12 psi SYSTEM = 731,500 GAL.

0940 EQ TANK = 1,000 GAL. MH PUMPS 1-4 ON. EQ PUMP OFF. EQ TANK HIGH LEVEL ON.

3/17/07

1030 SPOKE W/ LUKE McKENNEY ABOUT MH 3+4 PUMP SWITCHES + EQ HIGH LEVEL LIGHT. CALLED + LEFT MESSAGES W/ DAVE M. AND JEAN C. IN WESTFORD OFFICE. SYSTEM CYCLING CORRECTLY OTHERWISE. P.B.F. = 20 psi, SBF = 12 psi, SYSTEM = 738500

1050 CHANGE PRIMARY B.F. SYSTEM = 739,700 G P.B.F. = 16 psi, S.B.F. = 12 psi. OFFSITE

3/19/07

1347 Denise Sea (CENSR) onsite. Several alarm lights on, but had already known about that.

MH-1 363984
MH-2 95681
FS 104
System 798909
MTR 76200

1400 Blower off - DS contact Ray Smith - he says that should happen w/ new system.

1410 SAMPLE CP Effluent

1420 SAMPLE CP AS Drum 1
VOC, SVOC, RCRA 8 Metals, pH
- Drums 1 + 2 labeled on top.

1430 SAMPLE CP AS Drum 2
VOC, SVOC, RCRA 8, pH

1445 SAMPLE CP BAO - hold

1500 Mob to Boiler house to sample drums.

1505 @ boiler house inaccessible - 3-5' of snow piled in front of doors. DS update Luke McKenney (CENSR PM), he says we will have to leave it

1505 cont'd. LPM says do not submit Bag filter sample to lab yet. EWSR will hold until analyses are decided. DS Return Field book to Stripper area; complete C of C.

1530 DS off site.

- Note - System not pumping while DS on-site. Not enough effluent to collect pH battle. ~~DS collect from~~ (DS)
→ Stripper started @ 1535 collect pH.

3/19/07

3/27/07

1350 ON SITE. W/ DAN SHEARER
MH1 : 432,284 GAL.
MH2A = 141758 GAL.
FS = 104 GAL
SYSTEM = 944,599 GAL
METER = 899,200 GAL
FLOOR DRAIN DRY.
P.B.F. = 13 psi
S.B.F. = 6 psi
1445 COLLECT EFFLUENT SAMPLES.
1600 CHECKED MANHOLES 1 & 2A
1645 OFF SITE

4-5-07

0900 JEFF LAMPHERE ON-SITE FOR MONTHLY SAMPLING EVENT

MH 1: 496,161
MH 2: 189,447
FS: 104
SYSTEM: 1,103,557
METER: 1,097,400

11:10 OFF SITE

JDL

4-9-07

0925 JEFF LAMPHERE ON SITE FOR ~~MONTHLY~~ WEEKLY SAMPLING EVENT

MH1: 578,483
MH2: 203,523
FS: 104
SYSTEM: 1,166,219
METER: 1,102,800

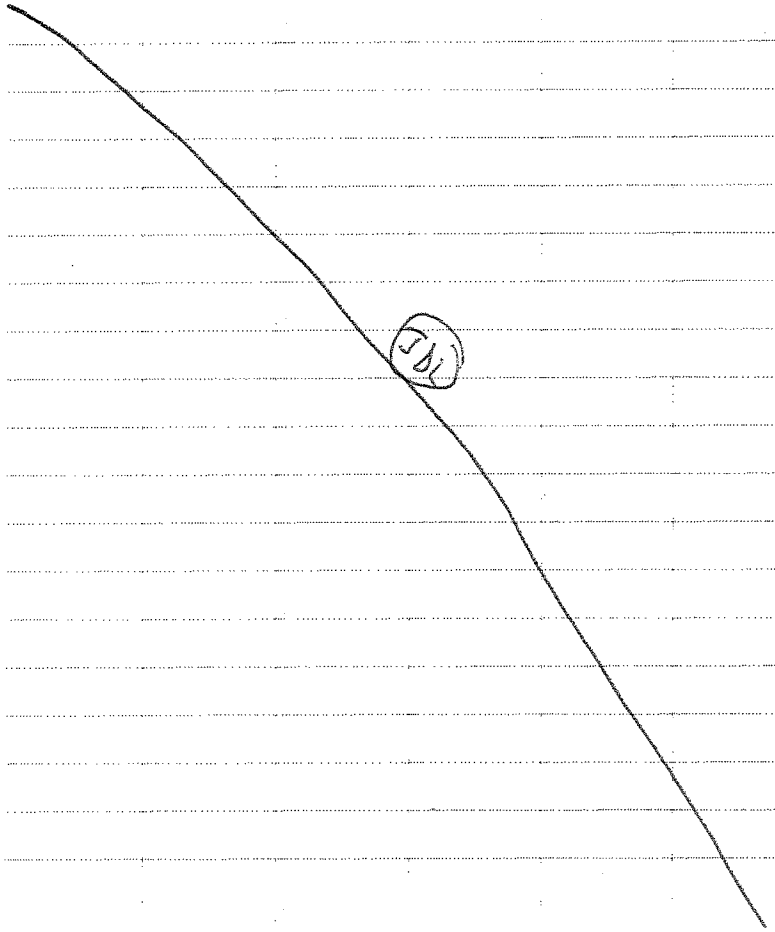
10:30 OFF SITE

JDL

4-9-07

11[20] JEFF LAMPHERE ON-SITE TO CHANGE PRIMARY BAG FILTER.

12[35] OFF SITE



4-17-07

0920 JEFF LAMPHERE ON-SITE FOR WEEKLY SAMPLING EVENT

MH1: 575,614
MH2: 276,085
FS: 104
SYSTEM: 1,300,611
METER: 1,227,400

1010 OFF SITE

4-23-07

12[05] JEFF LAMPHERE ON-SITE TO ADDRESS HIGH SUMP LEVEL ALARM IN EQ TANK. ATTEMPTED TO MANUALLY LOWER GW LEVEL IN EQ TANK

MH1: 606,666
MH2: 264,455
FS: 104
SYSTEM: 1,872,777
METER: 1,294,100

PUMPED EQ TANK DOWN TO APPROX. 600 GALLONS AND LET RUN AUTOMATICALLY.

1320 SYSTEM UP AND RUNNING
1350 HIGH FILTER PRESSURE ALARM
- CHANGED PRIMARY BAG FILTER
1435 OFF-SITE

4/24/07

0800 ONSITE. SYSTEM RUNNING. MH2A HIGH LEVEL ALARM. MH PUMPS 2, 3, & 4 RUNNING. EQ TANK: 1800 GALLONS.
MH1 = 620,900
MH2 = 278,000
FS = 113
SYSTEM = 1,402,535
METER = 1,321,800
PBF = 22 psi
SBF = 10 psi
A/S = 17 in.
0830 PRIMARY BAG FILTER UNIT LEAKING AROUND LID.
0930 CHANGED PRIMARY & SECONDARY BAG FILTERS. CLEANED O-RINGS, LIDS, AND O-RING GROOVE IN TOP OF FILTER UNIT. LIDS HAD SCALING IN AREA OF O-RING. REASSEMBLED UNITS.
0950 EQ PUMP ON. NO LEAKS AT BAG FILTERS.
PBF = 14 psi
SBF = 11 psi
1015 SYSTEM FUNCTIONING NORMALLY. OFF SITE.

4/25/07

0820 RAY SMITH ON SITE. ALL ALARMS OFF. NOTHING PUMPING

MH1 = 625,716 GALLONS
MH2 = 283,056 GALLONS
FS = 113 GALLONS
SYSTEM = 1,417,508 GALLONS
METER = 1,335,700 GALLONS
EQ TANK = 1,800 GALLONS

0850 CHANGED PRIMARY & SECONDARY BAG FILTERS.

P.B.F. = 15 psi
S.B.F. = 11 psi
Δ$ = 17.8 inches

0900 OFF SITE.

4/27/07

11[05] JEFF LAMPHERE ON SITE. MH1, MH2, EQ HIGH SUMP LEVEL ALARMS ON

MH2: 634,279
MH2: 288,559
FS: 113
SYSTEM: 1,442,053
METER: 1,358,700
EQ TANK: ~ 2300 GALLONS

PUMPED EQ TANK DOWN MANUALLY TO 1600

PBF: 16 PSI
SBF: 12 PSI

ATTEMPTED TO RESET SYSTEM → RESET SUCCESSFUL

12[35] OFF-SITE

5-4-07

14[10] JEFF LAMPHERE ON SITE- FOR WEEKLY SAMPLING AND TO CHANGE PRIMARY BAG FILTER-

MH1: 664,535
MH2: 303,928
FS: 113

15[20] OFF SITE

5/8/07 Monthly sampling, drum sampling.
1528 Denise Sew (ENSR) onsite.
MH-1 676,292 gal
MH-2 305,929 gal
FS 113
System 1,565,530
Meter 1,473,700
EQ tank 1200 gal
1330 Sample CP effluent
1340 Sample CP influent 1
1355 Sample CP influent 2
1400 DS look for keys to access ows. Keys missing. DS contact ENSR project personnel - nobody has keys. Possibly former employee took keys to office by accident. Will access ows area at a later time.
1435 DS offsite.

5/8/07

5/15/07

0935 JEFF LAMPHERE ON-SITE FOR WEEKLY SAMPLING EVENT AND TO CHANGE PRIMARY BAG FILTER.

MH-1: 695,321
MH-2: 308,701
FS: 113
SYSTEM: 1,625,571
METER: 1,529,900

1030 OFF-SITE

5/22/07

0400 ON SITE. SYSTEM DOWN MH 1, MH 2 EQ TANK HIGH LEVELS ON.

1440 CHANGED BOTH BAG FILTERS. RAN EQ PUMP IN HAND MODE UNTIL RESET WOULD WORK TO RUN IN AUTO.

1445 COLLECTED CP-EFFLUENT SAMPLES
MH 1 = 713640 gal
MH 2A = 310779 gal
FS = 113 gal
SYSTEM = 1681512 gal
METER = 1581435 gal

1455 MH 1 HIGH LEVEL OFF AFTER RESET. MH 2A HIGH LEVEL STILL ON
P3 & P4 RUNNING, FLOW RATE = 7.1 gpm
P1 ON AT 80.5 gpm.
P1 OFF, P3+P4 = 11 gpm.

1510 P.B.F. = 15 psi
S.B.F. = 12 psi

1530 EQ TANK PUMPED DOWN. SYSTEM RUNNING. OFF SITE.

RS

5/31/07
1105 Dennis Sepo (ENSR) ons. Fe for weekly sampling.
MH-1 0 gpm, 731722
MH-2 0 gpm, 314591
FS 0 gpm, 113
System 1745962
Meter - 1641100
1110 SAMPLE CP effluent
1120 OS off site.

6/4/07 Monthly samp, Change filters.
1400 Dennis Sepo & George Aikea onsite. Change filters.
MH-1 0 gpm, 738935
MH-2 0 gpm, 315001
FS 113
System 1772580
Meter 1665500
1420 Collect CP effluent
1430 Collect CP influent 1
1440 Collect CP influent 2
1445 All off site.

6/13/07 weekly Sampling
1510 DS onsite
mH-1 753068
mH-2 315930
FS 113
AS
Meter
1515 SAMPLE Cl effluent
1530 DS offsite.
6/13/07

6/15/07 Emergency call-out
1055 Denise Sun (ENSR) onsite.
mH-1 hi alarm
mH-2 hi alarm
Eq tank hi alarm
mH-1 - 0 gpm, 754130
mH-2 - 0 gpm, 316000
FS - 0, 113
AS - 0, 1829914
Meter 1718300
Blower on. Will pump EQ tank down by hand.
1115 attempt to re-set alarms;
6/15/07

6/15/07
1115 cont'd - pumps did not turn on. DS contact ENSR PM Luke McKenney, who suggests pumping MH-1 by hand to turn off alarm. This operation is successful. System operating - both MH's pumping at 1125. DS update CM, who says to remain on site until EQ pumps turn on to check filter pressure.
1215 DS discuss w/ ENSR PM that EQ pumps are not turning on. Suggest pump EQ down by hand, then turn sys. off for 5-10 mins.
1222 Sys off.
1235 attempt to start system; EQ pumps do not activate. Ray Smith of ENSR suggests hand pump EQ to 6000 gal & let fill up, see if pumps turn on. MH-2 running.
1310 EQ pumps still not on. Attempt to pump down EQ tank by hand.
6/15/07

6/15/09

1335 MH-2 pumping <10gpm, EQ tank @ 1600 gal, no pumps in tank have turned on yet. DS discuss w/ Ray Smith of ENSR, who says he is waiting for a phone call from Dave Macmi, ENSR engineer who worked on system design. Will leave in auto while DS leaves for lunch. DS off site.

1410 DS on site - EQ pumps & blower running. DS update RS, he says pumps in MH-2 are running, but no flow is registered. This may be seperate issue - could indicate a line flushing event is required. DS check filter pressure -
Primary - 22 psi
Secondary - 10 psi
DS will remain on site a little while longer while RS discuss w/ engineer.

1430 RS calls back - system is OK. DS off site.

6/18/07

0800 RAY SMITH ON SITE. SYSTEM DOWN. CHANGE BAG FILTERS.

0900 RUN EQ PUMPS IN HAND MODE. PUMP DOWN + SHUT OFF SYSTEM AT PANEL.

0910 RESTART + CHANGE PRIMARY BAG FILTER.

1130 OFF SITE.

6/26/07

0800 RON SMITH ONSITE.

0815 COLLECT CP EFFLUENT SAMPLE.
CHANGE BAG FILTER.
MH1 = 774,331 gal
MH2A=328,771 gal
FS = 113 gal
SYSTEM = 1,902,180 gal
METER = 1,783,962 gal

0900 OFF SITE.

FS

7/2/07 Monthly Sampling

1347 Denise Sero (ENSR) onsite.
MH-1 @ gpm 784922
MH-2 @ 329459
FS @ 113
AS @ 194741
Meter 1819700
1350 Sample CP effluent
1355 Sample CP influent #1
1400 Sample CP influent #2
1412 Off site

7/2/07

7/6/07

0830 CHANGED PRIMARY BAG FILTER.
OFFSITE

FS

7/12/07

0750 ON SITE.

MH1 = 799,468 GAL

MH2A = 330,461 GAL

FS = 113 GAL

SYSTEM = 1,998,123 GAL

METER = 1,870,710 GAL

0820 CHANGE PRIMARY & SECONDARY BAG FILTERS

0840 COLLECT WEEKLY EFFLUENT SAMPLES

0900 OFFSITE

RS 7/12/07

7/18/07

0820 ONSITE

MH1 = 809,055 GAL

MH2A = 331,081 GAL

FS = 113 GAL

SYSTEM = 2,035,196 GAL

METER = 1,903,965 GAL

CHANGE PRIMARY BAG FILTER

0840 COLLECT CP EFFLUENT SAMPLE.

0900 OFFSITE

FS.

7/23/07 Weekly Sampling

1430 DS onsite

1435 SAMPLE effluent

MH-1 821080 0 gpm

MH-2 331788

FS 113

System 2072573

Meter 1937400

1450 DS offsite.

8/1/07 WEEKLY SAMPLING / FILTER CHANGE

0800 RS ONSITE.

MH1 = 834,685

MH2A = 332,665

FS = 113

SYSTEM = 2,124,738

METER = 1,983,990

0840 CHANGE P.B.F. & S.B.F. TAKE MEASUREMENTS OF FILTER AREA

0900 COLLECT CP EFFLUENT SAMPLE.

0910 OFFSITE

RS 8/1/07

8/8/07

1500 ON SITE.

MH1 = 845,291

MH2A = 333,394

FS = 113

SYSTEM = 2,167,380

METER = 2,022,105

1520 CHANGE PRIMARY & SECONDARY BAG FILTERS.

1536 COLLECT CP EFFLUENT

1540 COLLECT CP INFLUENT #1

1545 COLLECT CP INFLUENT #2

1620 OFF SITE.

RS

8/15/07

0745 ON SITE.

MH1 = 855,719

MH2A = 334,127

FS = 113

SYSTEM = 2,206,442

METER = 2,057,005

0800 CHANGE PRIMARY & SECONDARY BAG FILTERS

0815 COLLECT CP EFFLUENT SAMPLE.

0830 OFF SITE.

RS

8/21/07

0915 JEFF LAMPHERE ON-SITE

MH1: 867,942

MH2: 334,886

FS: 113

SYSTEM: 2,240,738

METER: 2,087,600

0930: SAMPLED EFFLUENT

1015: OFF-SITE

8/24/07

07:30 ON SITE

WEATHER 75° OVERCAST HUMID

MH1 - 867,473

MH2 - 335,244

FS - 113

SYSTEM - 2,256,174

METER - ~~(2,104,400) 8:00 AM~~

2,104,400

CHECK SYSTEM OPERATION

P1 P. FILTER P2 FILTER

VERIFYING SYSTEM OPERATION - OK

11:30 AM OFF SITE

8/29/07 Weekly Sampling
945 Denise Sero (EJSR) on site.
MH-1 00074265
MH-2 00335787
FS 113
AS 02283557
Meter 02126000
950 SAMPLE CP effluent
1000 OS offsite.

9/4/07 63° P. CLOUDY
0730 RAY SMITH ON SITE.
MH1 = 880,462
MH2A = 336,470
FS = 113
SYSTEM = 2,311,982
METER = 2,151,410
1,700 GAL. IN EQ TANK. CHANGE PRIMARY + SECONDARY BAG FILTERS
CHECK SYSTEM. OPERATING NORMALLY.
0845 OFF SITE.

RS

9/5/07 Monthly Sampling
1345 Denise Sero (EJSR) on site
MH-1 881742
MH-2 336604
FS 113
AS 2317578
Meter 2156400
1350 SAMPLE CP effluent
1400 SAMPLE CP influent #1
1410 SAMPLE CP influent #2
1430 OS offsite

9/13/07
0900 RAY SMITH ON SITE
MH1: 891,556
MH2A: 337,565
FS = 113
SYSTEM: 2,358,338
METER = 2,193,352
0930 COLLECT CP EFFLUENT WEEKLY SAMPLE
1020 CHANGE PRIMARY + SECONDARY BAG FILTERS.
1630 REPLACE 10' STEP LADDER. INSTALL STEPS FOR BAG FILTER. OFFSITE

R.S.

9/14/07
745 Ray Smith (ENSR) on site for flushing cleaning for site inspection.
900 Denise Sero (ENSR) on site for sampling & to review bag filter changing procedure.
MH-1 899317
MH2 338511
FS 113
A/S 2390628
Meter 22226000
945 SAMPLE cl effluent
1015 DS off site.
1430 RS off site.

9/26/07 Weekly Sampling, bag filter
920 D. Sero (ENSR) on-site.
MH-1 907312
MH-2 339449
FS 113
A/S 2425691
Meter 2254400
9:25 DS change bag filter

940 SAMPLE cl effluent
950 DS off site

9/26/07

10/2/07 Monthly Sampling
1115 DS on site. Filter housing apparently leaking. Tighten up.
MH-1 914833
MH-2 340335
FS 113
A/S 2455674
Meter 2281800
1130 SAMPLE cl effluent
1148 SAMPLE cl influent #1
1150 SAMPLE cl influent #2
1200 DS off site.

10/2/07

10/8/07
1100 RAY SMITH ON SITE. SYSTEM DOWN. MH1-HIGH/MH2A-HIGH/EQ TANK-HIGH. A/S RUNNING
RESET. RUN EQ PUMP IN HAND MODE UNTIL EQ TANK = 1,700 GAL. RESET SYSTEM

10/8/07

MH 1 PUMPS AND MH2A PUMPS ON (ALL 4). NO EQ PUMP ON. A/S ON. NO LIGHTS ON FREIJE UNIT.
A/S PRESSURE WITH EQ PUMP ON = 23".
EQ TANK FILLING - NO EQ PUMP ON.
SYSTEM SHUT DOWN. EQ HIGH
RUN EQ PUMP IN HAND MODE.
PRIMARY BAG FILTER = 23 psi.
SECONDARY BAG FILTER = 4 psi
SYSTEM EFFLUENT = 60 GPM @ 1,600 GAL IN EQ.
FLOW WAS ≈ 80 GPM @ 1900
1100 GAL. EFF = 40 GPM
PRIMARY B.F. = 35 psi
EQ TANK WATER V. TURB.O.
BAG FILTER PRESSURE HIGH
A/S STILL RUNNING
CHANGED P.B.F. & S.B.F.
CONTINUE EP PUMP EFF = 141 GPM
P.B.F. = 14 psi
S.B.F. = 11 psi
PUMP EQ TANK TO 600 GAL.
RESET SYSTEM. MH 1-HI / MH2A-HI
EQ TANK - LO A/S STILL ON.
SHUT SYSTEM CONTROL POWER OFF.

10/9/07

1155 TURN ALL SYSTEM COMPONENTS ON WAIT 5 MINUTES. TURN CONTROL POWER ON, RESET. NOTHING ON.
RUN MH 1 PUMPS IN HAND TO 1,000 GAL.
RESET. MH1-HI / MH2A-HI
EQ LOW - OFF. MH PUMPS ON (4)
EQ TANK FILLING.
MH1 = 150 GPM
MH2A = 0.0 GPM
1210 MH1 PUMPS OFF. RESET - MH1-HI OFF.
MH2A-HI. BOTH MH2A PUMPS ON.
MH2A = 0.0 GPM. FLOW METER BAD OR LINE PLUGGED. EQ = 1,500 GAL
1245 A/S ON. EQ PUMP ON. MH2A PUMPS ON. MH2-HI. EFF = 145 GPM
PBF = SBF =
A/S = 23.3"
1250 EQ PUMP OFF. A/S ON MH2A PUMPS ON. MH2A-HI. OFF SITE.

RS
10/8/07

10/5/07

0730 RM SMITH ON SITE.
MH1-HI/MH2A-HI/B.F PRESSURE-HI
CHANGE P.B.F. AND S.B.F. RESTET
SYSTEM.

0830 SYSTEM CYCLED BUT A/S CONTINUES
TO RUN. MH2A-HI. BOTH MH2A
PUMPS RUNNING. SHUT DOWN SYSTEM
POWER. RESTART AFTER 5 MINUTES
MH2A-HI. BOTH MH2A PUMPS ON
A/S BLOWER OFF.

0900 CHECK MH2A. ABLE TO SEE TOP OF
FLOAT. HEAR PUMPS RUNNING, CHECK
VALVE ROTTING, + WATER IN LINES.
AFTER 15 MINUTES UNABLE TO SEE
DROP IN WATER LEVEL. OFF SITE.

RS
10/9/07

10/11/07 Weekly Sapling
11:30 DS on site.
MH-1 924644
MH2 342008
FS 113
AIS 2506605
Meter 232 & 100
Change filters
1145 SAMPLE effluent.
1155 DS offsite.

DS 10/11/07

10/17/07 Weekly Sampling
1315 DS onsite.
MH-1 946892
MH-2 343397
FS 113
AIS 2553223
Meter 237050
1320 Sample effluent
1330 DS offsite.

DS

10/17/07

10783 - 014/043 (3)
ATLAS COPCO
CP - UTICA
26/07 -

"Rite in the Rain"®
ALL-WEATHER
FIELD BOOK
No. 350 NF

No. 350NF Field Num-Fab

10/24/07 Weekly Sampling
945 DS onsite.
MH-1 967480
MH-2 344407
FS 113
ALS 2607309
Meter 2419900
Change filters.
1010 SAMPLE CP effluent
1020 DS offsite.
~~JMS 10/24/07~~

10/29/07
13:18 Denize Serv + Bill Hardy of EVSR on site
MH-1 980482
MH-2 344973
FS 113
ALS 2637340
Meter 2447200
Change filters, re-start system.
1340 Sample CP effluent
1400 Filter pressure causes shut off. DS check with EVSR Crew

1900 RS says might have to change filters several times since sys was shut down over weekend. DS + BH attempt to re-start system after 2nd filter change, but only 15 mins of run time later, system is shut down due to hi filter pressure. Attempt change filters again - same time period. DS check in w/ RS.
1450 RS says try 1 more time - eq tank may be filled w/ sediment that could need vac truck or similar to remove. Re-start system again after change Prim. filter.
1500 10 mins of operating time + filter pressure caused system shut down. RS says stop for the day. DS + BH offsite.

10/29/07

10/30/07

0800 RAY SMITH ON SITE. TROUBLE SHOOTING SYSTEM. MH1 + MH2A HIGH LEVEL ALARMS ON. BP RESSURE HIGH. CHANGE BAG FILTERS.

1100 MH1 PUMPED DOWN. MH2A STILL HIGH. CHECKED EQ TANK FOR SEDIMENT. DID NOT FEEL SEDIMENT W/ POLE. SYSTEM RUNNING. OFFSITE.

RS

11/7/07 Monthly Sampling
10:00 Denise Sand (ENSR) on-site.
MH-1 1023326
MH-2 347174 Hi Alarm
PS 113
A/S 2729995
Meter 2531700
Change Filters
10:20 SAMPLE CP: effluent #1
10:30 SAMPLE CP: effluent #2
10:40 Sample CP effluent
10:45 DS offsite.

11/13/07

0800 RAY SMITH ON SITE TO CHANGE BAG FILTERS AND COLLECT WEEKLY EFFLUENT SAMPLE.
MH1 = 1038534
MH2A = 347845
FS = 113
SYSTEM = 2772834
METER = 2570788
0815 COLLECT CP EFFLUENT
0830 CHANGE PRIMARY + SECONDARY BAG FILTERS. OFF SITE.

RS 11/13/07

11/21/07 Weekly Sampling
930 Denise Sand on site.
mh-1 1070830
mh-2 348721
PS 113
System = 2855340
meter = 2642300
Change filters
950 collect sample CP effluent
1000 DS offsite.

11/29/07 Weekly Sampling
10:11 Denise Sero (ENSR) on site.
MH-1 1116250
MH-2 349136
FS 113
A/S 2947124
Meter 7730300
Change filters
1035 SAMPLE CL effluent
1045 DS offsite.

11/24/07

12/3/07 Emergency call-out
1254 D. Sero (ENSR) onsite.
Blower running. MH-1 hi alarm, MH-2 hi alarm, EQ tank hi alarm. Turn off Blower + change filters.
- Also turn off Freire system -
MH-1 1123682
MH-2 349203
FS 113
A/S 2963152
meter 2744300

1346 Restart system + pump EQ tank down.
1317 EQ tank pumped down, re-set mH pumps. All MHs pumping currently.
1325 EQ pumps turned on. filter pressure is good. will stay on site for 1 more system cycle.
1332 Primary filter pressure rising. After EQ tank pumps down, will change filter once more.
1340 change primary filter, restart EQ pump
1359 EQ tank full, turn off mH pumps so it can pump down.
1410 change primary filter.
1418 MH pumps running
1425 EQ tank pumping.
1507 Change primary filter, turn all to "auto."
1530 DS offsite

12/6/07 Monthly Sampling
945 Dennison onsite
MH-1 1150256
MH-2 349458
FS 113
A/S 3010720
Meter 2788100
950 collect effluent sample
955 collect ~~MH-1~~ influent 1 sample
1000 collect influent #2 sample
1015 DS offsite.
DNS 12/6/07

12/13/07 Weekly Sampling
955 DS onsite.
MH-1 1184167
MH-2 349772
FS 113
A/S 3058507
Meter 2859500
1000 SAMPLE CP effluent
Change filters
1020 DS offsite

12/18/07
0800 ONSITE TO SAMPLE EFFLUENT AND CHANGE BAG FILTERS. WILL TROUBLESHOOT MODEM WITH MIKE REDMOND.
0840 COLLECT CP EFFLUENT
MH 1 = 1,209,503
MH2A = 349,863
FS = 113
A/S = 3,145,479
METER = 2,910,248

12/27/07
1015 Luke McKenney & Christy Rosenbarker onsite to sample effluent & to address MH1, MH2 & EQ TANK alarm.
1330 Collect Effluent Sample
MH1 = 1,236,320
MH 2A = 349,929
FS = 113
A/S 3,194,980
METER = 2,955,200
MAG = 25
1430 OFF SITE

1/2/08