# CONSTRUCTION COMPLETION REPORT LOOHNS CORNING SITE SITE # 851028

WORK ASSIGNMENT NO. D004434-35

# Prepared for:

# **New York State Department of Environmental Conservation Albany, New York**

Prepared by:

MACTEC Engineering and Consulting, P.C. Portland, Maine

**MACTEC: 3612102148** 

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## GLOSSARY OF ACRONYMS AND ABBREVIATIONS

A/C air conditioning

bgs below ground surface

CCR Construction Completion Report

ChemTech Environmental Laboratories

DDD dichlorodiphenyldichloroethane
DDE dichlorodiphenyldichloroethylene
DDT dichlorodiphenyltrichloroethane

FAP Field Activities Plan FS Feasibility Study

HASP Health and Safety Plan

HDPE high-density polyethylene

HSO Health and Safety Officer

IRM Interim Remedial Measure

Lu Engineers, Inc

MACTEC Engineering and Consulting, P.C.

mg/kg milligram(s) per kilogram

mg/L milligram(s) per liter

NYS New York State

NYSDEC New York State Department of Environmental Conservation

Op-Tech Environmental Services, Inc.

# GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

PCBs polychlorinated biphenyls

PCE tetrachloroethene

PID photoionization detector

RI Remedial Investigation

SC Site Characterization
Site Loohns Corning site

SVOC semi volatile organic compound

TCE trichloroethene

μg/L microgram(s) per liter

VOC volatile organic compound

#### 1.0 INTRODUCTION AND SITE BACKGROUND

MACTEC Engineering and Consulting, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC), is conducting a Remedial Investigation/Feasibility Study (RI/FS) at the Loohns Corning site (Site), a former dry cleaner in Corning, New York (Figure 1.1). The Site is currently listed as Class 2 Inactive Hazardous Waste Site No. 8-51-028, in the Registry of Hazardous Waste Sites in New York State (NYS).

MACTEC has prepared this Construction Completion Report (CCR) to document an Interim Remedial Measure (IRM) performed in December 2010.

This CCR has been prepared in accordance with the NYSDEC requirements in work assignment No. D004434-35 dated February 19, 2010; with the July 2005 Superfund Standby Contract between MACTEC and the NYSDEC; and with DER-10/Technical Guidance for the Completion of Site Investigation and Remediation (NYSDEC, 2010). Activities described in this CCR include RI sampling conducted in accordance with a Field Activities Plan (FAP) (MACTEC, 2010)

#### 1.1 SITE LOCATION AND HISTORY

The Site is located at 37 East Pulteney Street in the City of Corning, Steuben County, New York. (Figure 1.1). The Site property consists of 0.5 acres including a light commercial/retail building with a large front parking lot. According to the City of Corning Assessor's office, the Site building was constructed in 1971. A former dry cleaner occupied one of the center commercial spaces. The building is one story and is slab-on-grade.

Although it is not known if a dry cleaner was one of the original tenants in 1971, Gilliam's One Hour Cleaners was listed at the location in the 1975 city directory. The 1981 and 1989 directories reviewed listed Loohns Cleaners Launderers, Inc. at the location. The date the dry cleaner ceased operation is not known. The former dry cleaner space is now being leased and used as a delicatessen.

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Various environmental studies conducted between 1997 and 2010 identified tetrachloroethene (PCE) in groundwater and in shallow soil located in an alley directly north of the former dry cleaner space. PCE in shallow soil was reported in several samples above the current soil cleanup objective for unrestricted use of 1.3 milligrams per kilogram (mg/kg). A permanent monitoring well (MW-1) located in the alley opposite the rear door of the former cleaners contains PCE at concentrations up to 41 milligrams per liter (mg/L), above the Class GA groundwater standard of 5 micrograms per liter ( $\mu$ g/L). Additional details related to these prior investigations can be found in the FAP. The data indicates that dry cleaning solvents were likely released to the ground surface outside of the rear door of the former dry cleaner space.

Based on the findings from a Site Characterization (SC) completed by MACTEC in 2007 (MACTEC, 2007) and prior environmental investigations, the NYSDEC reclassified the Site as a Class 2 Inactive hazardous waste site and, in 2010, directed MACTEC to perform a RI/FS.

#### 1.2 2010 RI AND IRM OVERVIEW

Previous studies had identified PCE in surficial and shallow unpaved soils behind the former dry cleaner. Prior soil vapor and indoor air sampling identified PCE in soil vapor beneath the dry cleaner. The NYSDEC identified a soil removal IRM as a priority for the RI. The NYSDEC determined that removing accessible contaminated soil would be an appropriate remedial action to mitigate residual soil contamination and potentially reduce levels of PCE in sub-slab vapor beneath the Site structure.

MACTEC developed additional investigation tasks that were presented in the 2010 FAP. These included:

- a direct-push (Geoprobe) soil sampling program to better define the lateral and vertical extent of impacted soil and provide geotechnical data for remedial design
- surface soil sampling from locations outside of the impacted soils to evaluate naturally occurring levels of metals and organic constituents
- groundwater grab sampling from direct-push borings located south (downgradient) from the former dry cleaner
- property survey to establish boundaries and structure relationships.

The results of these activities are discussed in Section 2.0.

Based on the RI results and prior studies, MACTEC designed and executed a soil removal IRM. The IRM included excavation of accessible impacted soils located at the rear of the former dry cleaner and construction of a potential vapor extraction well.

#### 1.3 IRM BIDDING INFORMATION AND AWARD

MACTEC prepared project plans and specifications and issued Request for Quotations on October 13, 2010. A pre-bid meeting was held at the Site on October 15, 2010 for interested bidders to review the Site setting and access. A single correction to the contract documents, specifically items and/or quantities on the Bid Schedule, was issued to interested bidders on October 28, 2010.

MACTEC solicited bids from six firms and received bids from four responsive bidders on October 29, 2010. The low bidder was Op-Tech Environmental Services, Inc. (Op-Tech) of Syracuse, New York, with a total bid of \$38,282. MACTEC reviewed the responding bids and recommended award to Op-Tech based on price and technical capability. The NYSDEC authorized the award, and MACTEC executed a subcontract agreement with Op-Tech for the IRM.

The IRM was performed in December 2010, and waste disposal was completed in January 2011. The Scope of Work and findings for the IRM are presented in Section 3.0.

#### 2.0 2010 REMEDIAL INVESTIGATION

In June 2010, MACTEC conducted a sampling investigation to further evaluate the area of impacted soils and provide supporting data needed to design a soil removal IRM. The investigation included additional sampling to characterize groundwater downgradient of the area of soil impact.

#### 2.1 SOIL SAMPLING

#### 2.1.1 Scope of Work

To establish current conditions and better define the areal and vertical extent of PCE impact, MACTEC completed a soil sampling program along the north side of the former dry cleaners where prior sampling indicated the presence of PCE in shallow soils. MACTEC subcontracted Nothnagle Drilling of Scottsville, New York to perform the drilling. Field work was completed during the week of June 8, 2010. ChemTech Environmental Laboratories (ChemTech), a New York State Department of Environmental Health Environmental Laboratory Approval Program-certified laboratory analyzed the soil and groundwater samples.

The field investigation included:

- eleven direct-push soil borings (PDI-01 to PDI-09, PDI-12, PDI-13),
- three hand borings with shallow soil samples (PDI-10, PDI-11 and PDI-14),
- one surface soil location (SS-1)
- three offsite soil samples (BKSS-01, BKSS-02 and BKSS-03)

Exploration locations are shown on Figure 2.1. Figure 2.2 provides a more detailed map of sampling locations in the area of impacted soil, and includes prior sampling locations.

Nothnagle, under the direction of MACTEC, completed the soil borings to depths of between 16 and 22 feet below ground surface (bgs). Samples were retrieved continuously via 4-foot long sampling liners and each soil interval was logged and examined. Soil boring logs are provided in Appendix A. The logs include soil description, sample depths and IDs and measurements of the soil column using a photo-ionization meter (PID). Hand sampling was accomplished at three locations (PDI-10, PDI-11 and PDI-14) due to the presence of overhead utilities. Field data records for these samples are

provided as surface soil logs in Appendix A. A total of 26 soil samples, plus quality assurance/quality control samples were collected from PDI-01 through PDI-14. Sample locations were selected based on PID response and to provide spatial coverage to assess the levels of PCE in soils laterally and vertically in the area of impact. Samples were analyzed by ChemTech for volatile organic compounds (VOCs).

One surface soil sample was collected to characterize surficial soil for environmental constituents other than VOCs. SS-1 was collected from soil near the elbow of the natural gas feeder line that enters the rear of the building (see Figure 2.2). This sample was analyzed by ChemTech for semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs) and inorganics (metals).

Three surface soil samples were obtained at locations apart from the area of impact from dry cleaning solvent (Figure 2.1). Sample BKSS-01 is located south of the Site from the grass strip bordering East Pulteney Street and within the town right-of-way. BKSS-02 was collected from an unpaved vacant lot to the northwest of the former dry cleaner space. BKSS-03 was collected from the grass strip along the south side of Ontario Street, to the north of the Site. These samples were analyzed by ChemTech for SVOCs, pesticides, PCBs and metals. Field data records for the surface soil samples are also provided in Appendix A.

## 2.1.2 Analytical Findings

Analytical results from the 2010 RI sampling are summarized on Table 2.1 (Soil VOCs) and Table 2.2 (Soil Metals, Pesticides, and SVOCs). These tables show only those compounds reporting in one or more samples. Full data tables and a discussion of data usability are provided in Appendix B.

PCE was reported in all VOC soil samples at concentrations ranging from 0.0026 mg/kg (PDI-3 at 13 ft bgs) to 63 mg/kg (PDI-9 at 1 foot bgs). PCE was reported above the soil criteria of 1.3 mg/kg in two samples (one interval each at boring PDI-8 and PDI-9). Figure 2.2 includes the 2010 result as well results from prior soil analyses to show the historical distribution of PCE in Site soil. PCE reported as a tentatively identified compound in those samples where SVOCs were analyzed and there was no corresponding VOC analysis and these have also been included on Figure 2.2.

Other chlorinated solvent-type compounds detected in soil include trichloroethene (TCE) and cis-1,2-dichloroethene; however, they were only identified in two of the samples and were reported at concentrations below their respective soil criteria.

Levels of metals reported in soils from behind the building (samples from PDI-6, PDI-11 and SS-01) were consistent with concentrations reported in the three off-site soil samples. No onsite results exceeded criteria. Therefore, metals were not interpreted to be contaminants of concern in the area where dry cleaning solvents were present.

Levels of SVOCs reported in soils behind the building were consistent with the offsite background samples, and no onsite SVOC was reported above criteria. SVOCs were also not interpreted to be contaminants of concern related to the solvent release.

PCBs were not detected in any onsite or offsite background soil sample.

Three pesticides were reported in one or more of the onsite samples (4,4-dichlorodiphenyldichloroethane [4,4-DDD], 4,4-dichlorodiphenyldichloroethylene [4,4-DDE], 4,4-dichlorodiphenyltrichloroethane [4,4-DDT]) at levels above criteria. Pesticides were also detected in one of the three offsite background samples. The onsite samples with PCBs were located within the area of soil excavation and were therefore removed during the IRM. The occurrence of pesticides in shallow soils is interpreted by MACTEC to be coincidental and not likely related to the release of the dry cleaning solvents.

The 2010 soil sampling and analysis confirmed that the dry cleaning solvent PCE was the principal Site-related contaminant of concern and that it was still present locally at levels above soil criteria. The sampling array from the 2010 and prior environmental studies were used to develop a proposed area of excavation for the IRM. The proposed area used for remedial design and contract award is represented on Figure 2.2.

#### 2.2 GROUNDWATER SAMPLING

#### 2.2.1 Scope of Work

Prior investigations included the installation of permanent monitoring wells MW-01 and MW-02 at the Site. MW-01 is located directly behind the former dry cleaner within the area of impacted shallow soils. MW-02 is located south and downgradient of the area of impact in the front parking lot of the Site. Groundwater flow direction has been interpreted to be southerly or south-southeasterly towards the Chemung River. Sampling in 2006 had established that PCE was present in groundwater at MW-01 at 37j  $\mu$ g/L and at MW-02 at 2.5j  $\mu$ g/L (MACTEC, 2007). The Class GA groundwater criterion for PCE is 5 mg/L.

As part of the 2010 RI, MACTEC collected groundwater grab samples from three direct push borings (GW-13, GW-14 and GW-15) located in a line to the east of MW-02 (Figure 2.1). The sampling array was designed to provide data from a more comprehensive transect across groundwater flow direction.

Nothnagle used direct-push technique to advance borings and collect groundwater grab samples from the water table. Samples were obtained from a depth of 19 feet bgs in each of the three borings.

## 2.2.2 Analytical Findings

PCE was detected at low concentrations in two of the three groundwater samples. PCE at GW-014 was reported at 1.2  $\mu$ g/L and at GW-015 at 1.8  $\mu$ g/L. PCE was not detected at GW-013. These results are all below the criteria of 5  $\mu$ g/L and are consistent with the level of PCE reported in nearby MW-02. Results for detected compounds are provided in Table 2.3. Relatively low levels of fuel-related compounds (e.g. benzene, ethyl benzene, toluene, xylene) were also present in the groundwater grab samples.

#### 2.3 SURVEY

Lu Engineers (Lu) of Rochester, NY, under contract to MACTEC, provided survey services at the Site. As part of the SC, Lu had previously surveyed the Site in March 2006 and produced a survey plot of the Site structures and explorations. In 2010, Lu updated the survey to identify property

boundaries and abutters. Horizontal locations were tied to the NYS Plane Coordinate System using North American Datum of 1983. Vertical elevations were tied to mean sea level using National Geodetic Vertical Datum of 1988. Survey details for the IRM area are provided on Figure 2.3.

#### 3.0 IRM SCOPE OF WORK

#### 3.1 DESCRIPTION OF IRM

The NYSDEC determined that the IRM should include removal of accessible impacted soil between from the apparent release area to the rear of the former dry cleaners. MACTEC developed a proposed area of soil removal based on historic and RI sampling data. Due to proximity of both the Site structure (a slab-on-grade brick and block building with the former dry cleaner space) and a wood-frame barn on a loose fieldstone foundation, there were limits on the depth and slope that the excavation could achieve without potentially compromising structural stability. MACTEC developed design documents and consulted with the interested subcontractors to determine practical limits of excavation.

As part of the IRM, the NYSDEC required that existing monitoring well MW-01 be preserved. NYSDEC also requested the construction of a vapor extraction well, to be located within the excavation. This well could be used to mitigate residual PCE impact, if determined to be needed, after the soil removal phase of the IRM.

The elements of the 2010 IRM included:

- excavation of soils within a footprint of approximately 200 square feet
- removal of a central area of soils to an approximate depth of 6 feet, with the final configuration of the hole to be determined on-site while considering adjacent structure foundation stability
- backfill with crushed stone
- construction of a 4-inch diameter vapor well
- emplacement of a geotechnical membrane extending across the entire excavation creating a surficial seal around the potential vapor well to prevent entrainment of surface vapor.
- transport and disposal of excavated soil to a NYSDEC-approved landfill
- site restoration including restoration of storage structures, rain down sprouts, a free-standing air conditioning (A/C) unit, and removal of construction trash

Photo documentation of the field activities is provided in Appendix C.

#### PROJECT PREPARATION AND GOVERNING DOCUMENTS 3.2

MACTEC prepared project plans detailing the work elements, submittals, schedule, and project requirements. These were provided to bidders during the contractor selection process. The Civil Site Plan, Excavation plan, and Section and Details plan are provided in Appendix D. Once the NYSDEC approved the subcontract award, MACTEC worked with Op-Tech to develop and review project plans for the execution of the work.

Op-Tech submitted a Work Plan and Health and Safety Plan (HASP). These were accepted in final form on December 2, 2010, and field start was planned for December 6, 2010. The work plan provided descriptions of the methods, procedures, equipment and materials to be used to complete the project. While finalizing the work plan, Op-Tech pre-planned and coordinated the field elements to be able to perform the field tasks in the most efficient time. The majority of field tasks were scheduled and executed during a 6-day period, a significant reduction in the planned three-week schedule that resulted in labor savings for MACTEC and the NYSDEC.

#### 3.3 IRM EXECUTION

#### 3.1.1 **Site Mobilization and Preparation**

The following tasks were completed by Op-Tech before soil excavation commenced on December 7, 2010.

Container Staging. Op-Tech brought three 20-yard steel containers to the Site and staged them at a designated location to the north and west of the excavation area.

Brush removal. Op-Tech grubbed weeds and brush from the alley behind the Site building and placed the organic material in one of the containers. Miscellaneous paper trash and debris was bagged and would be disposed of as municipal trash during Site restoration.

Relocation of A/C Unit. The IRM included the temporary removal of an above ground A/C unit that was staged on the ground at the rear of the Site structure. Op-Tech used a subcontractor (Gene's Air Conditioning/Heating of Corning, NY) to depower and disconnect the unit, and then Op-Tech moved the unit and floating concrete pad off of the work area.

<u>Utility Clearance.</u> Op-Tech contacted Dig-Safe NY and had utilities in the area marked. Utilities within or near the work area included a buried natural gas line and overhead power lines. Op-Tech also met with the gas company to mark the line and review excavation safety requirements in the vicinity of the line. The Work Plan included hand excavation of the gas line at the commencement of excavation to expose its run within the work area.

<u>Shed relocation.</u> A small storage shed and its contents were temporarily relocated to allow equipment access between the soil excavation and the staged containers.

#### 3.1.2 Soil Excavation

Op-Tech began the excavation on December 7, 2010. The excavation proceeded generally from east to west with removal of shallow (upper two feet of soil) and then deeper (2 to 6 feet) where practical based on the design plans. Hand-digging was used to expose the natural gas line and to confirm the depth of the Site building's footing which was found at approximately 2.5 feet bgs. Existing monitoring well MW-01 was preserved in place and its cement collar was exposed by hand. The excavation proceeded as planned and reached an approximate depth of six feet below grade. The excavation north of MW-01 was limited to approximately three feet below grade, as planned, due to the nearby presence of the loose fieldstone foundation of the adjacent wood barn.

With the exception of material that was hand-dug, soils were removed using a Volvo EC35 miniexcavator and transported to the containers using a Volvo MC60 skid steer. Due to the constricted working area, care was taken to protect the structure foundations and avoid overhead and in-ground utilities.

Once the excavation had reached the approximate design lateral and vertical limits, as judged by the Op-Tech and MACTEC engineer onsite, documentation soil samples were collected by MACTEC (see Section 3.1.5) and a survey of the excavation limits was completed by a licensed surveyor subcontracted to Op-Tech.

Orange safety fencing material was then placed along the bottom and side slopes of the excavation to demarcate the limit of soil removal.

3.1.3 Vapor Well Construction

A perforated high-density polyethylene (HDPE) well pipe was installed for potential future use as a vacuum extraction well. As shown on MACTEC's Civil Section and Details Plan (Appendix D) the well consists of 4-inch diameter HDPE with a three-foot long slotted section with 0.020-inch well screen installed on the bottom of the excavation. The well was completed with a solid riser section that terminates within a 12-inch road box. A concrete apron was constructed around the roadbox.

3.1.4 Imported Backfill

The excavation was backfilled as a layered installation due to the design requirements including the placement of a geomembrane surrounding the potential vapor extraction well. Crushed stone was employed as backfill and compacted in lifts. The stone was brought to an elevation approximately 6-inches above the top of the extraction well screen. Non-woven geotextile (GEOTEX 311) was placed across the top of the crushed stone, and a 4-inch to 6-inch sand lift was placed on the geotextile.

A geomembrane was then constructed around the extraction well and across the entire excavation. The geomembrane consists of 40-mil thick HDPE smooth liner by Agru America, Inc. The liner covers the entire excavation footprint and is sealed around the monitoring well and vapor extraction well risers. A second sand lift was placed on top of the geomembrane to protect it from puncture, and then crushed stone was used as the surficial fill to restore the excavation area to its original elevation. Vertical section details can be seen on the Civil Sections and Details Plan (Appendix D).

The geomembrane installation was completed by Chenango Contractors of Johnson City, NY, a manufacturer-certified installer under contract to Op-Tech, and all seams were welded in accordance with the manufacturer's recommendations.

3-4

#### 3.1.5 **Documentation Samples**

MACTEC collected documentation samples from the excavation consistent with <u>DER-10</u>, <u>Technical Guidance for Site Investigation and Remediation</u> (NYSDEC, 2010) to determine the levels of PCE in Site soils at the limits of the remedy. A total of seven samples (EX-01 to EX-07) were collected by MACTEC on December 7, 2010 and analyzed by ChemTech for VOCs. Locations are shown on Figure 3.1. Samples EX-01 through EX-05 were collected from the bottom of the excavation. EX-06 and EX-07 were collected from the north sidewall, approximately 4-feet below original grade.

Results for PCE are also plotted on Figure 3.1. TCE was reported in one sample (EX-06 at 3.1j micrograms per kilogram). PCE was only reported in one location (EX-07) at a level above soil criteria.

A data usability review for these analyses is included in Appendix E. PCE and TCE results are summarized below:

Table 3.1 PCE and TCE Results: IRM Documentation Samples (reported in μg/kg)

Location	PCE	TCE
EX-01	15	ND (5.4U)
EX-02	79	ND (4.8U)
EX-03	29	ND (4.7U)
EX-04	110	ND (4.4U)
EX-05	42	ND (4.3U)
EX-06	170	3.1 J
EX-07	6300 D	ND (4.4U)

ND = Not detected (reporting limit); D = Diluted run; J = estimated value; U = non-detect

# 3.1.6 Soil Transport and Disposal

Samples were obtained from each of the three roll-offs on December 7, 2010. The samples, including one duplicate for quality assurance were analyzed by ChemTech for VOCs. Results for PCE and TCE are shown in the table below.

Table 3.2 PCE and TCE Results: Excavated Soil Samples (reported in μg/kg)

Location	Sample ID	PCE	TCE
Container 1	SC2520	14	ND (5.7 U)
Container 2	SC2509	640 D	2.1 J
Container 3	SC2513	200	ND (5.8 U)

MACTEC provided the results to the NYSDEC and requested a 'contained-in' determination. The NYSDEC approved the request which allowed the waste soil to be disposed of as non-hazardous solid waste. The NYSDEC approval letter is provided in Appendix F.

Op-tech engaged Page Transportation, a New York certified woman-owned business enterprise as the waste transporter. Page removed the three containers on January 11, 2011. The material was accepted for disposal at the Steuben County Bath Landfill in Bath, New York, also on January 11, 2010. Copies of the Non-hazardous Waste Manifests are provided in Appendix F.

#### 3.1.7 Site Restoration

After completion of excavation, backfill and construction activities, Op-Tech restored the Site to its original conditions. Activities included:

- restoring the A/C unit to its original location and re-connecting the power
- restoring the shed and contents to their original position
- removing miscellaneous contractor waste with disposal as local municipal solid waste
- restoring building rain downspouts and a protective bollard.

#### 3.1.8 Construction Surveys

Op-Tech subcontracted James Evans, Licensed Land Surveyor, Corning New York to survey the work site. James Evans performed the following surveys:

<u>Pre-Excavation Survey</u>. On November 29, 2010 to establish a construction baseline and elevations of the ground surface in the planned excavation and staging area.

<u>Limits of Excavation Survey</u>. On December 8, 2010, while the excavation was open, to document the boundary and depth of the excavation.

<u>Post-Excavation Survey</u>. On December 15, 2010 to document final ground elevations after Site restoration and to provide rim elevations for the flush-to-grade monitoring well and vapor extraction well.

The survey plots provided by Op-Tech are located in Appendix G.

### 3.1.9 Health and Safety

Work was performed by Op-Tech under a Site-specific HASP. Op-Tech's designated Health and Safety Officer (HSO) was Mr. Ken Hugo. MACTEC's Site engineer, Mr. David Lovejoy, oversaw and documented the IRM activities and served as MACTEC's HSO. Mr. Hugo or Mr. Lovejoy conducted daily work plan/safety meetings before the work commenced to review the planned tasks and any associated safety hazards.

All work was accomplished under Level D personal protective equipment. Weather during the period of excavation and restoration was consistently below freezing. This served to minimize the potential for volatile organic release to air. No VOCs were recorded in the breathing zone or near the excavation faces during the excavation. Dust monitoring was not deemed necessary by the NYSDEC due to the limited nature of the excavation, the weather, and on-site conditions.

All work was accomplished safely and there were no safety or health incidents during the course of the project. Daily work logs are provided in Appendix H.

# 4.0 ISSUES AND CHANGES TO THE CONTRACT

#### 4.1 CONTRACTOR

# 4.1.1 Project Schedule

During the project bidding phase, MACTEC asked bidders to commit to a field start date of November 29, 2010. MACTEC worked with the winning bidder, Op-Tech, to ensure that their project plans were adequate to govern the execution of the IRM and document its performance. MACTEC approved Op-Tech's Work Plan on December 2, 2010 and therefore field start did not occur until December 6, 2010.

Field work was executed professionally and in a timely manner. All construction tasks with the exception of transport and disposal of the containerized waste were completed within a two week timeframe instead of MACTEC's project estimate of three weeks.

MACTEC received a 'contained-in' designation for all waste from the NYSDEC dated December 14, 2010. Op-Tech incurred some delay while waiting for authorization from the receiving landfill and promptly transported the waste once this was issued. The containers were removed and received by the disposal facility on January 11, 2011, designated as the IRM completion date.

# 4.2 CONSTRUCTION ISSUES

There were no changes to Op-Tech's scope of work. No Change Orders were issued during the project.

4-1

# 5.0 ENGINEER'S CONSTRUCTION CERTIFICATION

# 5.1 CONCLUSIONS AND CERTIFICATION

I, Mark Stelmack, certify that I am currently a NYS registered professional engineer. I had primary direct responsibility for the implementation of the subject construction program, and I certify that the Remedial Design Plans and Specifications were implemented and that all construction activities were completed in substantial conformance with the DER-approved Remedial Design Plans and Specifications.



Signature:

Mark J. Stelmack, P.E. Principal Engineer

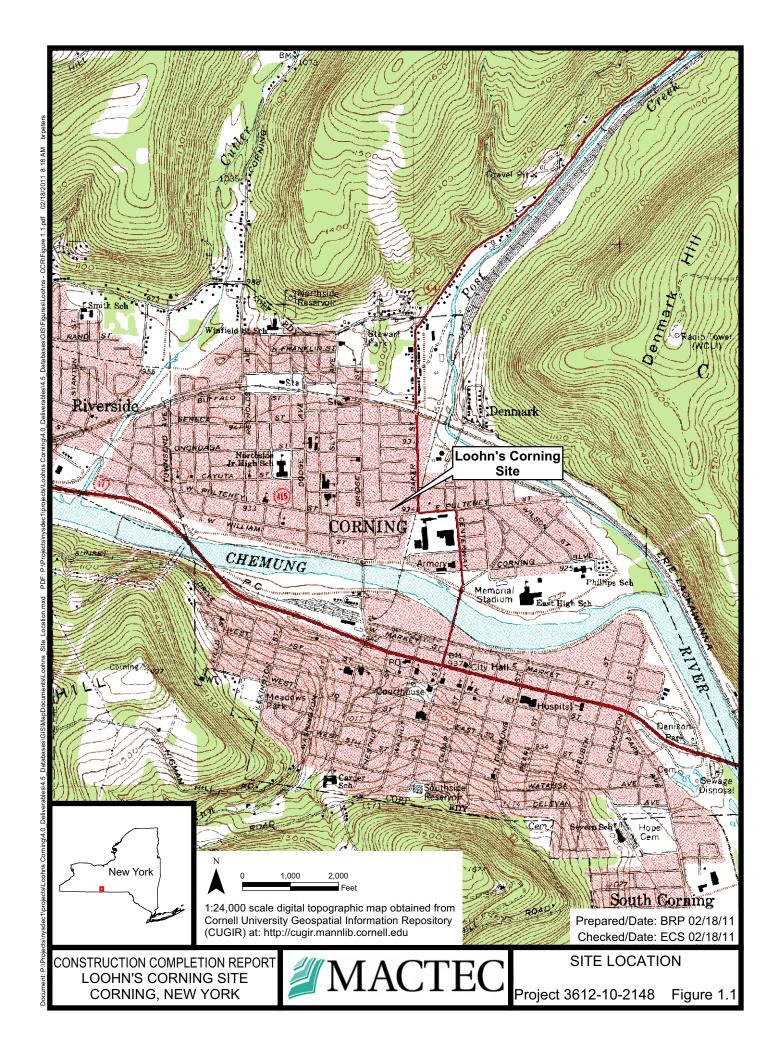
Date:

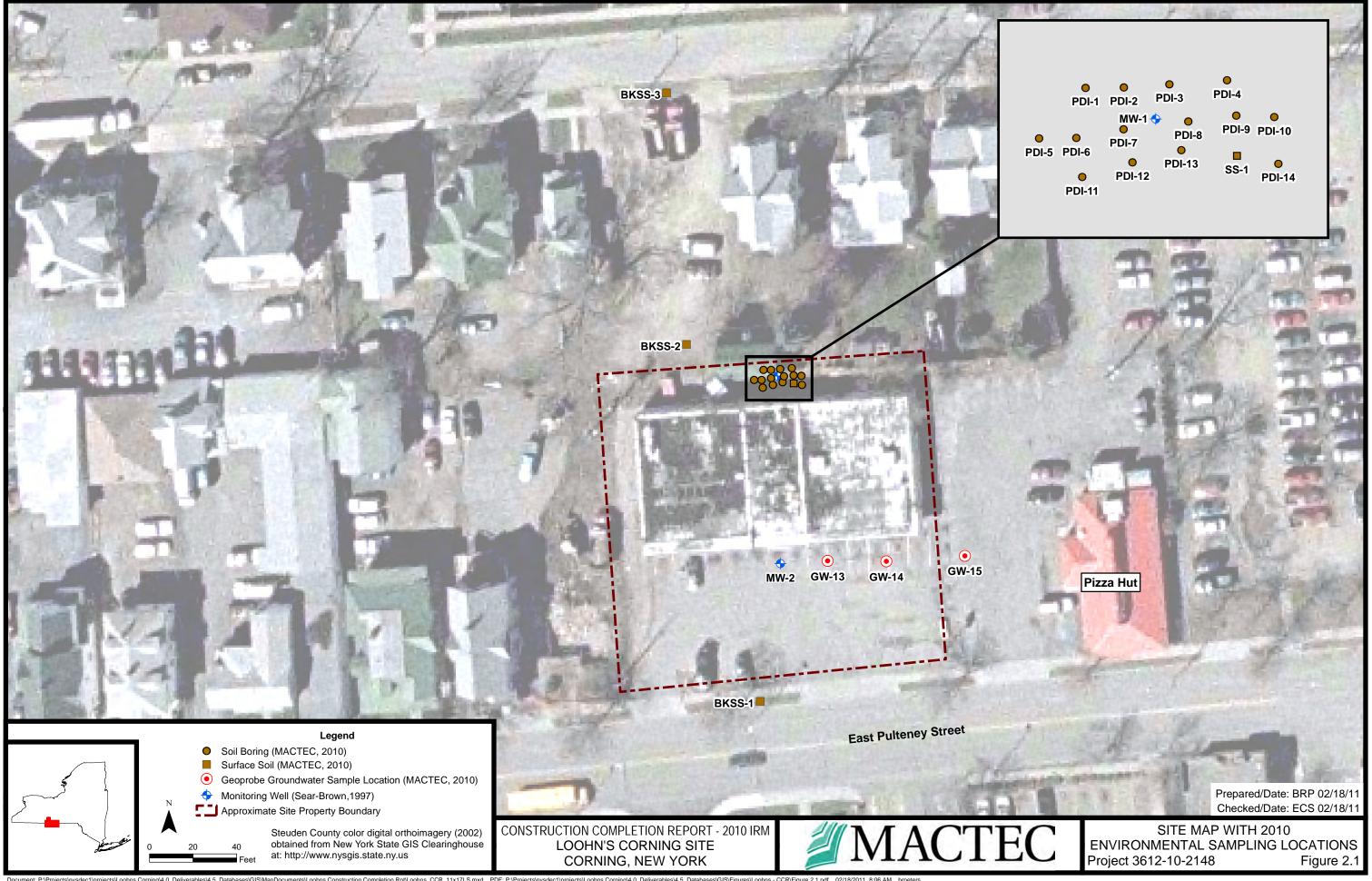
Feb. 28, 2011

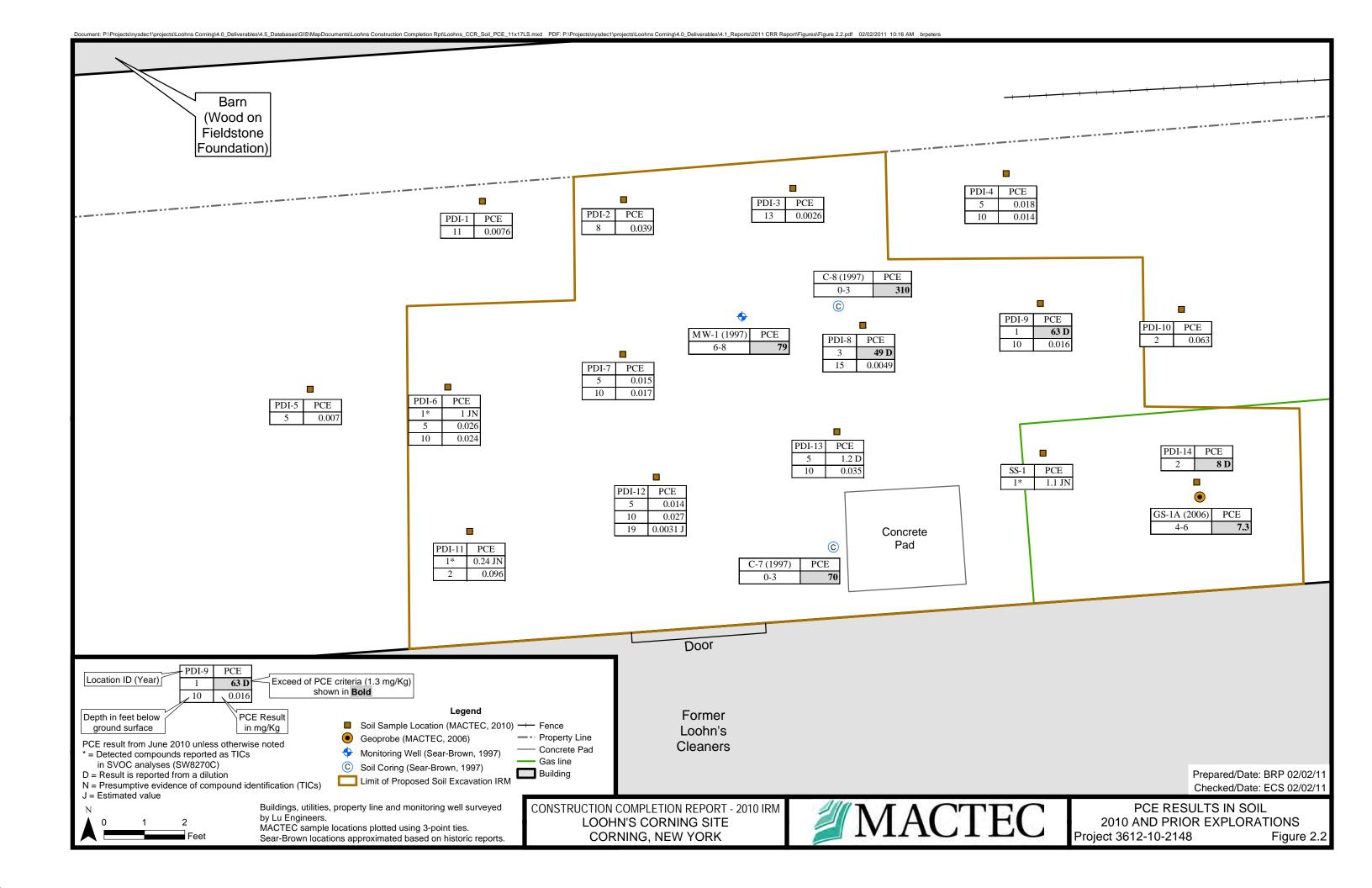
#### 6.0 REFERENCES

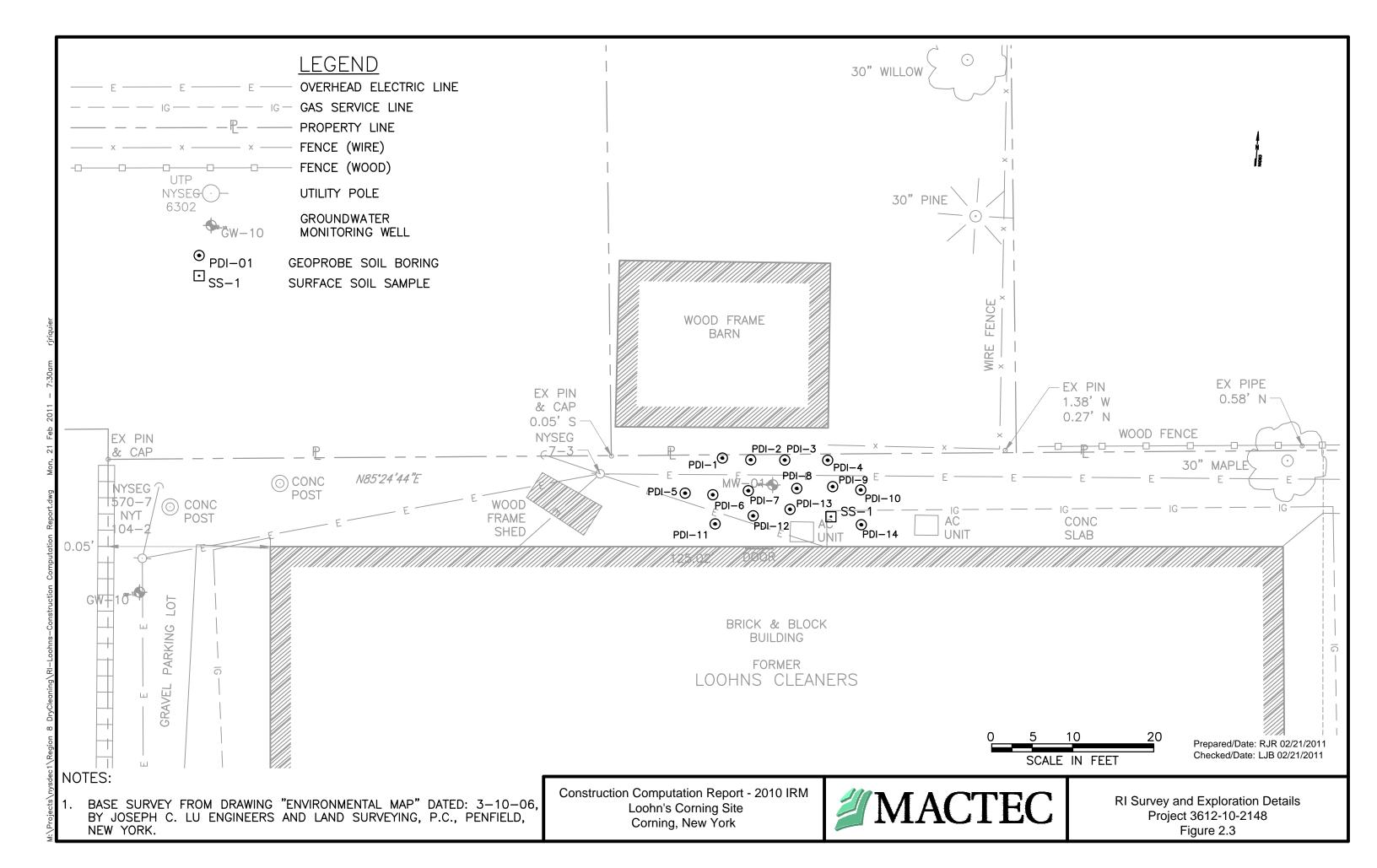
- MACTEC Engineering and Consulting, Inc. P.C. (MACTEC) 2007. Final Site Characterization Report, Region 8 Dry Cleaning Sites, Loohns Corning Site, Corning, New York, March 2007.
- MACTEC 2010. Field Activities Plan, Loohns Corning Site: Site # 851028; Work Assignment No. D004434-35, May 2010.
- NYSDEC 2010. DER-10 / Technical Guidance for Site Investigation and Remediation, Issued May 3, 2010.

# **FIGURES**









# **TABLES**

February 2011

CCR – Loohns Corning NYSDEC – Site No. 851028 MACTEC E&&C, P.C., Project No. 3612102148

Sample Location			PDI-001		PDI-001		PDI-002		PDI-003		PDI-004		PDI-004	
	LCPDI00101110XD		LCPDI00	LCPDI00101110XX		LCPDI00200810XX		LCPDI00301310XX		LCPDI00400510XX		LCPDI00401010XX		
	FD		FS		FS		FS		FS		FS			
Sample Depth			11 f	t bgs	11 ft bgs		8 ft bgs		13 ft bgs		5 ft bgs		10 ft bgs	
	Sar	mple Date	06/0	08/10	06/08/10		06/08/10		06/09/10		06/09/10		06/09/10	
Method	Method Parameter Criteria		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	1,2-Dichlorobenzene	1	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	1,4-Dichlorobenzene	1.8	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	Acetic acid, methyl ester	NC	0.0048	U	0.0041	U	0.0053	U	0.0032	J	0.0045	U	0.0076	
SW8260B	Acetone	0.05	0.024	U	0.021	U	0.026	UJ	0.028	U	0.016	J	0.023	J
SW8260B	Cis-1,2-Dichloroethene	0.25	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	Cyclohexane	NC	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	Methyl cyclohexane	NC	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0027	J	0.0074	U
SW8260B	Methylene chloride	0.05	0.0048	U	0.0041	U	0.0056	U	0.0067		0.0031	J	0.0078	
SW8260B	Tetrachloroethene	1.3	0.0062		0.0073		0.039		0.0026	J	0.018		0.014	
SW8260B	Toluene	0.7	0.0048	U	0.0012	J	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	Trichloroethene	0.47	0.0048	U	0.0041	U	0.0053	U	0.0057	U	0.0045	U	0.0074	U
SW8260B	Xylene, m/p	0.26	0.0095	U	0.0082	U	0.011	U	0.011	U	0.0091	U	0.015	U

#### Notes:

VOCs = Volatile organic compounds

\* = Detected compounds reported as TIC in SVOC analyses (SW8270C)

TICs = Tentatively Identified Compunds

SVOCs = Semi-volatile organic compounds

Results in milligrams per kilogram (mg/Kg)

ft bgs = feet below ground surface

Only detected compounds shown.

"--" = Parameter not analyzed

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

D = Result is reported from a dilution

N = Presumptive evidence of compound identification (TICs)

J = Estimated value

Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

NC = no criteria available

Detections are indicated in BOLD

Highlighted results exceed criteria

February 2011

CCR – Loohns Corning NYSDEC – Site No. 851028 MACTEC E&&C, P.C., Project No. 3612102148

	PDI-005		PDI-006*		PDI-006		PDI-006		PDI-007		PDI-007			
	\$	LCPDI00500510XX		LCPDI00600110XX		LCPDI00600510XX		LCPDI00601010XX		LCPDI00700510XX		LCPDI00	701010XX	
		FS		FS		FS		FS		FS		I	FS	
	5 ft	bgs	1 f	1 ft bgs		5 ft bgs		t bgs	5 ft bgs		10 ft bgs			
	Sa	mple Date	06/0	08/10	06/08/10		06/08/10		06/08/10		06/08/10		06/0	08/10
Method	Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	1,2-Dichlorobenzene	1	0.0047	U			0.0047	0.0047 U		0.0049 U		0.0049 U		U
SW8260B	1,4-Dichlorobenzene	1.8	0.0047	U				U	0.0049	U	0.0049	U	0.0043	U
SW8260B	Acetic acid, methyl ester	NC	0.0047	U				U	0.0049	U	0.0028	J	0.0087	
SW8260B	Acetone	0.05	0.023	U			0.024	U	0.025	U	0.025	U	0.026	U
SW8260B	Cis-1,2-Dichloroethene	0.25	0.0047	U			0.0047	U	0.0049	U	0.0049	U	0.0043	U
SW8260B	Cyclohexane	NC	0.0047	U			0.0047	U	0.0049	U	0.0049	U	0.0043	U
SW8260B	Methyl cyclohexane	NC	0.0047	U			0.0047	U	0.0049	U	0.0049	U	0.0043	U
SW8260B	Methylene chloride	0.05	0.0047	U			0.0047	U	0.0049	U	0.0049	U	0.0044	U
SW8260B	Tetrachloroethene	1.3	0.007		1	1 JN			0.024		0.015		0.017	
SW8260B	Toluene	0.7	0.0047	U				U	0.0049	U	0.0049	U	0.001	J
SW8260B	Trichloroethene	0.47	0.0047	U				U	0.0049	U	0.0049	U	0.0043	U
SW8260B	SW8260B Xylene, m/p 0.26		0.0093	U			0.0094 U		0.0098 U		0.0098 U		0.0087	U

#### Notes:

VOCs = Volatile organic compounds

\* = Detected compounds reported as TIC in SVOC analyses (SW8270C)

TICs = Tentatively Identified Compunds

SVOCs = Semi-volatile organic compounds

Results in milligrams per kilogram (mg/Kg)

ft bgs = feet below ground surface

Only detected compounds shown.

"--" = Parameter not analyzed

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

D = Result is reported from a dilution

N = Presumptive evidence of compound identification (TICs)

J = Estimated value

Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

NC = no criteria available

Detections are indicated in BOLD

Highlighted results exceed criteria

February 2011

CCR – Loohns Corning NYSDEC – Site No. 851028 MACTEC E&&C, P.C., Project No. 3612102148

	PDI-008		PDI-008		PDI-009		PDI-009		PDI-010		PDI-011*				
	S	Sample ID	LCPDI00800310XX		LCPDI00801510XX		LCPDI00900110XX		LCPDI00901010XX		LCPDI01000210XX		LCPDI01100110XX		
		FS		FS		FS		FS		FS		FS			
Sample Depth			3 f	t bgs	15 ft bgs		1 ft bgs		10 ft bgs		2 ft bgs		1 ft bgs		
Sample Date			06/08/10		06/08/10		06/09/10		06/09/10		06/09/10		06/09/10		
Method	Parameter	Criteria	Result	Qualifier											
SW8260B	1,2-Dichlorobenzene	1	0.027		0.0046	U	0.0052	J	0.0045	U	0.0048	U			
SW8260B	1,4-Dichlorobenzene	1.8	0.012		0.0046	U	0.0023	J	0.0045	U	0.0048	U			
SW8260B	Acetic acid, methyl ester	NC	0.0051	U	0.0042	J	0.0068	U	0.0023	J	0.0048	U			
SW8260B	Acetone	0.05	0.025	U	0.023	UJ	0.012	J	0.012	J	0.024	U			
SW8260B	Cis-1,2-Dichloroethene	0.25	0.19		0.0046	U	0.0028	J	0.0045	U	0.0048	U			
SW8260B	Cyclohexane	NC	0.0051	U	0.0046	U	0.0068	U	0.0045	U	0.0048	U			
SW8260B	Methyl cyclohexane	NC	0.0051	U	0.0046	U	0.0068	U	0.0045	U	0.0048	U			
SW8260B	Methylene chloride	0.05	0.0077	U	0.0051	U	0.0042	J	0.0046		0.004	J			
SW8260B	Tetrachloroethene	1.3	49	D	0.0049		63	D	0.016		0.063		<b>0.24</b> JN		
SW8260B	Toluene	0.7	0.0051	U	0.0014	J	0.0068	U	0.0045	U	0.0048	U			
SW8260B	Trichloroethene	0.47	0.18		0.0046	U	0.0093		0.0045	U	0.0048	U			
SW8260B	SW8260B Xylene, m/p 0.26		0.01	U	0.0091	U	0.014	U	0.0091	U	0.0096	U			

#### Notes:

VOCs = Volatile organic compounds

\* = Detected compounds reported as TIC in SVOC analyses (SW8270C)

TICs = Tentatively Identified Compunds

SVOCs = Semi-volatile organic compounds

Results in milligrams per kilogram (mg/Kg)

ft bgs = feet below ground surface

Only detected compounds shown.

"--" = Parameter not analyzed

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

D = Result is reported from a dilution

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J = Estimated value

Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

NC = no criteria available

Detections are indicated in BOLD

Highlighted results exceed criteria

February 2011

CCR – Loohns Corning NYSDEC – Site No. 851028 MACTEC E&&C, P.C., Project No. 3612102148

	Sample	Location	PD	[-011	PD	I-012	PDI-012		PDI-012		PDI-013		PDI-013	
	S	Sample ID	LCPDI01	100210XX	LCPDI01	200510XX	LCPDI01	201010XX	LCPDI01	201910XX	LCPDI01	300510XX	LCPDI01301010XX	
		QC Code	I	FS	]	FS	]	FS	]	FS	F	FS	FS	
	Sam	ple Depth	2 f	t bgs	5 ft bgs		10	ft bgs	19 ft bgs		5 ft	t bgs	10 f	ft bgs
	Sar	mple Date	06/0	09/10	06/	08/10	06/0	08/10	06/0	08/10	06/08/10		06/08/10	
Method	Parameter	Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	1,2-Dichlorobenzene	1	0.0041	U	0.0045	U	0.0044	U	0.0041	U	0.0012	J	0.0044	U
SW8260B	1,4-Dichlorobenzene	1.8	0.0041	U	0.0045	U	0.0044	U	0.0041	U	0.0045	U	0.0044	U
SW8260B	Acetic acid, methyl ester	NC	0.0041	U	0.0019	J	0.0044	U	0.0041	U	0.0045	U	0.0044	U
SW8260B	Acetone	0.05	0.02	U	0.022	U	0.022	U	0.025	U	0.022	UJ	0.022	U
SW8260B	Cis-1,2-Dichloroethene	0.25	0.0041	U	0.0045	U	0.0044	U	0.0041	U	0.0016	J	0.0044	U
SW8260B	Cyclohexane	NC	0.0041	U	0.0045	U	0.0044	U	0.0025	J	0.0045	U	0.0044	U
SW8260B	Methyl cyclohexane	NC	0.0041	U	0.0045	U	0.0044	U	0.0028	J	0.0045	U	0.0044	U
SW8260B	Methylene chloride	0.05	0.003	J	0.0045	U	0.0055	U	0.0053	U	0.0045	U	0.0044	U
SW8260B	Tetrachloroethene	1.3	0.096		0.014		0.027		0.0031	J	1.2	D	0.035	
SW8260B	Toluene	0.7	0.0041	U	0.0045	U	0.0044	U	0.0022	J	0.00091	J	0.0044	U
SW8260B	Trichloroethene	0.47	0.0041	U	0.0045	U	0.0044	U	0.0041	U	0.0045	U	0.0044	U
SW8260B	Xylene, m/p	0.26	0.0081	U	0.009	U	0.0088	U	0.0015	J	0.0089	U	0.0088	U

### **Notes:**

VOCs = Volatile organic compounds

\* = Detected compounds reported as TIC in SVOC analyses (SW8270C)

TICs = Tentatively Identified Compunds

SVOCs = Semi-volatile organic compounds

Results in milligrams per kilogram (mg/Kg)

ft bgs = feet below ground surface

Only detected compounds shown.

"--" = Parameter not analyzed

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

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D = Result is reported from a dilution

N = Presumptive evidence of compound identification (TICs)

J = Estimated value

Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

NC = no criteria available

Detections are indicated in BOLD

February 2011

CCR – Loohns Corning NYSDEC – Site No. 851028 MACTEC E&&C, P.C., Project No. 3612102148

	Sample	Location	PD	I-014	SS-	001*
	S	Sample ID	LCPDI01	400210XX	LCSS001	100110XX
		QC Code	]	FS	1	FS
	Sam	ple Depth	2 f	t bgs	1 f	t bgs
	Sar	mple Date	06/0	09/10	06/0	08/10
Method	Parameter	Criteria	Result	Qualifier	Result	Qualifier
SW8260B	1,2-Dichlorobenzene	1	0.00079	J		
SW8260B	1,4-Dichlorobenzene	1.8	0.0042	U		
SW8260B	Acetic acid, methyl ester	NC	0.0042	U	-	
SW8260B	Acetone	0.05	0.021	U		
SW8260B	Cis-1,2-Dichloroethene	0.25	0.0042	U		
SW8260B	Cyclohexane	NC	0.0042	U		
SW8260B	Methyl cyclohexane	NC	0.0042	U		
SW8260B	Methylene chloride	0.05	0.0045			
SW8260B	Tetrachloroethene	1.3	8	D	1.1	JN
SW8260B	Toluene	0.7	0.0042	U		
SW8260B	Trichloroethene	0.47	0.0051			
SW8260B	Xylene, m/p	0.26	0.0084	U		

### Notes:

VOCs = Volatile organic compounds

\* = Detected compounds reported as TIC in SVOC analyses (SW8270C)

TICs = Tentatively Identified Compunds

SVOCs = Semi-volatile organic compounds

Results in milligrams per kilogram (mg/Kg)

ft bgs = feet below ground surface

Only detected compounds shown.

"--" = Parameter not analyzed

QC Code:

FS = Field Sample

FD = Field Duplicate

Qualifiers:

U = Not detected greater than the reporting limit

D = Result is reported from a dilution

N = Presumptive evidence of compound identification (TICs)

J = Estimated value

Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

NC = no criteria available

Detections are indicated in BOLD

NYSDEC - Site No. 851028

MACTEC Engineering and Consulting, P.C., Project No. 3612102148

Table 2.2: 2010 Soil Results - Metals, Pesticides and SVOCs

	a	D1100 001		Bulg one	•		DDY 011	66.001
:	Sample Location	BKSS-001	BKSS-002	BKSS-003	BKSS-003	PDI-006	PDI-011	SS-001
	Sample ID	LCBKSS00100110X		LCBKSS00300110XD	LCBKSS00300110XX	LCPDI00600110XX	LCPDI01100110XX	LCSS00100110XX
	Qc Code	FS	FS	FD	FS	FS	FS	FS
	Sample Depth	1 ft bgs	1 ft bgs	1 ft bgs	1 ft bgs	1 ft bgs	1 ft bgs	1 ft bgs
	Sample Date	06/09/10	06/09/10	06/09/10	06/09/10	06/08/10	06/09/10	06/08/10
Parameter	Criteria	Result Qualifi	er Result Qualifier	Result Qualifier				
Metals by USEPA Meth								
Aluminum	NC	7050 J	5430 J	6400 J	5470 J	5420	6180 J	8240
Antimony	NC	0.7 J	2.58 U	1.37 J	1.08 J	2.76 U	0.58 J	2.89 U
Arsenic	13	5.67	3.94	9.37	7.69	4.22	4.34	6
Barium	350	83.2 J	36.7 J	106 J	93.6 J	49.1	<b>66.6</b> J	97.3
Beryllium	7.2	0.42	0.26 J	0.46	0.36 J	0.26 J	0.3	0.41
Cadmium	2.5	1.09	0.66	1.37	0.96	0.61	0.79	1.16
Calcium	NC	3400 J	13000 J	12600 J	2060 J	1050	6320 J	2570
Chromium	30	12.6	7.69	9.65	8.8	7.63	8.64	10.7
Cobalt	NC	8.35	5.57	7.74	6.87	4.68	5.79	7.13
Copper	50	15.6	18.1	37.5	32.8	11.8	21	25.2
Iron	NC	16600 J	13500 J	15700 J	13100 J	12000	13900 J	17400
Lead	63	47.9	12.1	190	144	28.8	44.1	38.8
Magnesium	NC	2480 J	4840 J	2290 J	1540 J	1450	1790 J	2380
Manganese	1,600	488 J	317 J	<b>467</b> J	415 J	405	343 J	413
Nickel	30	17.8	13	14.9	12.3	9.78	12.8	16.3
Potassium	NC	767 J	382 J	584 J	507 J	407	400 J	671
Selenium	3.9	2.28 J	1.68 J	2.73 J	2.32 J	1.88	1.92 J	2.45
Sodium	NC	605 J	96.8 J	211 J	188 J	225	120 J	119
Vanadium	NC	11.2	9.13	11.3	9.9	10.4	9.88	13.9
Zinc	109	77.1 J	58.1 J	137 J	113 J	59.2	76.4 J	105
Mercury	0.18	0.088 J	0.017 J	0.164 J	<b>0.193</b> J	0.106 J	0.134 J	0.081 J
Pesticides by USEPA M								
4,4`-DDD	0.0033	0.0021 U	0.00394 U	0.0021 U	0.0021 U	0.0019 U	0.0013 J	0.016
4,4`-DDE	0.0033	0.0021 U	0.0367 U	0.0027 JP	0.003 JP	0.0019 U	0.0047	0.01
4,4`-DDT	0.0033	0.0021 U	0.00026 U	0.0029	0.0031	0.017	0.0057	0.036
Dieldrin	0.005	0.0021 U	0.00066 U	0.0021 U	0.0021 U	0.0019 U	0.0032 JP	0.0039 U
Methoxychlor	NC	0.0021 U	13 U	0.0021 U	0.0021 U	0.0019 U	0.012	0.038 J
SVOCs by USEPA Metl	hod 8270							
Benzo(a)anthracene	1	0.21 J	0.00769 U	0.1 J	0.11 J	0.38 U	0.39 U	0.054 J
Benzo(a)pyrene	1	0.22 J	0.00557 U	0.11 J	<b>0.1</b> J	0.38 U	0.39 U	0.055 J
Benzo(b)fluoranthene	1	0.29 J	0.0181 U	0.16 J	0.15 J	0.38 U	0.39 U	0.087 J
Benzo(ghi)perylene	100	0.16 J	13.5 U	0.083 J	0.078 J	0.38 U	0.39 U	0.093 J
Benzo(k)fluoranthene	0.8	0.13 J	0.0121 U	0.054 J	0.41 U	0.38 U	0.39 U	0.38 U
Bis(2-Ethylhexyl)phthala		0.41 U	4.84 U	0.41 U	0.41 U	0.13 J	0.34 J	1.8
Butylbenzylphthalate	NC	0.41 U	0.317 U	0.41 U	0.41 U	0.38 U	0.39 U	0.13 J
Chrysene	1	0.24 J	0.013 U	0.13 J	0.13 J	0.38 U	0.39 U	0.08 J
Di-n-butylphthalate	NC	0.41 U	0.382 U	0.41 U	0.41 U	0.38 U	0.39 U	0.063 J
Di-n-octylphthalate	NC	0.41 U	0.00168 U	0.41 U	0.41 U	0.38 U	0.39 U	0.055 J
Fluoranthene	100	0.48	0.0968 U	0.24 J	0.26 J	0.38 U	0.056 J	0.16 J
Indeno(1,2,3-cd)pyrene	0.5	0.14 J	0.00913 U	0.072 J	0.068 J	0.38 U	0.39 U	0.049 J
Phenanthrene	100	0.16 J	0.0581 U	0.11 J	0.14 J	0.38 U	0.39 U	0.061 J
Pyrene	100	0.35 J	0.000017 U	0.19 J	<b>0.2</b> J	0.38 U	0.39 U	0.13 J
Notes:		•	•	•	•	•	•	· · · · · · · · · · · · · · · · · · ·

SVOCs = Semi-volatile organic compounds Results in milligrams per kilogram (mg/Kg

ft bgs = feet below ground surface Only detected compounds shown.

NC = no criteria available

QC Code:

FS = Field Sample FD = Field Duplicate

### Qualifiers:

U = Not detected greater than the reporting limit

P = Indicates >25% difference for detected

concentrations between the two GC columns.

J = Estimated value Criteria - 6 NYCRR 375 Soil Cleanup Objectives

for unrestricted use.

Detections are indicated in BOLD

Table 2.3 - 2010 Groundwater Results - VOCs

	Sample Location	GW	-013	GW	-014	GW-015		
	Sample ID	LCGW013	302010XX	LCGW014	402010XX	LCGW01502010XX		
	Sample Date	06/0	9/10	06/0	9/10	06/0	9/10	
	Qc Code	F	S	F	S	F	S	
	Sample Depth	19 f	t bgs	19 f	t bgs	19 f	t bgs	
Parameter	GA Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	
Benzene	1	1	U	1	U	2		
Cyclohexane	NC	1	U	1	U	1.8		
Ethyl benzene	5	1	U	1	U	0.57	J	
Methyl cyclohexane	NC	1	U	0.76	J	1.2		
Tetrachloroethene	5	1	U	1.2		1.8		
Toluene	5	0.91	J	0.88	J	3.8		
Xylene, m/p	5	1.2	J	2	U	2.9		
Xylene, o	5	0.51	J	1	U	1.2		

### Notes:

Samples analyzed for volatile organic compounds (VOCs) by USEPA Method 8260

Results reported in micrograms per liter ( $\mu g/L$ )

Only detected compounds shown.

ft bgs = feet below ground surface

QC Code:

FS = Field Sample;

Qualifiers:

U = Not detected greater than the reporting limit

 $J = Estimated \ value$ 

Criteria = New York State GA Standards, part 703.

NC = no criteria established

Detections are indicated in BOLD

### APPENDIX A

### 2010 RI FIELD DATA RECORDS

									SOIL BORING LOG				
	i di di	~ 4	- 4		7			$\overline{}$	Project Name: Loohn's Corning	Boring I	D: PD1-1		
		M	Α	1	1		E(	الد	Project Location: Corning, New York	Page No			
	511 (	Congress S	Street.	Portla	and Ma	ine 04	1101		Project No.: 3612102148 Client: NYSDEC	<del></del>	of:		
Bor		cation:							Refusal Depth: Total Depth:	Bore Ho	Bore Hole ID/OD: 4" OD		
		SUNN				05			Soil Drilled: (6 Method: Direct Push	Casing Size: NA			
	contra				e Drill				P.I.D (eV): 10.6 Protection Level: Level D	+	Sampler: Macrocore		
		Jeff, La							Date Started: 6 8 10 Date Completed: 6 8 10		ID/OD: 1.85"/4"		
_		Model:				DT			Logged By: LJB Checked By: RUM 6 22/10				
Ref		Elevation le Inform		Grad	ne T	Mor	itoring		Water Level: >16 Time: //55 CB C/22//6	Hamme	r Type: 130 30° NA		
1	<del>,                                    </del>	F		<u>.                                      </u>	=		litoring			ďn			
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
					0				0.0 - 0.4 TSOM (SM) TOPSOIL AND ORGANIC	SM			
2		4.0.	_						MATERIAL (C) M (ML PE)	ML			
3	75	50 h	1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				BROWN, MOIST, SILT, SOME SAND,  FINE TO COARIE, LIME TO SOME  GRAVEL, NP-LEANGULAR TO RANDED  (FILL) TRAVETO LITTLE CLAY.  1.0-2.0 GRAVELLY SAND W/ SILT (SM)  BROWN, MOIST, SAND, FINE TO COARSE,  SOME FINE TO COARSE GRAVEL,	SM	;		
5 6	7	4.0			0 +				WET ATIS (ISSLATED)	Sm			
7 %	S	63%		_					4.0-0.5 SAME AS ABOVE COLOR  (BY VARIATIONS BRUIN   GRAVISH  BROWN, ISOLATED WET INTERVAL  AT 5.0"				
9		4.0			0 0				8.0 - 11.5 SAME AS ABOVE PID SCREEN @ 11.0" (1.9 PPM) ACDOISH BROWN Q. 9.0"; 10.5"	SM			
10	5-3	D.)	J		01.9	1.4	Yes	⊛			@ LCfDlosio\\10xx VOCs LCfDlosio\\10xg VOCs(DUF)		
(3		4.0	1	7	0.0				12-18 SAME AS ABORE	5/h			
19	⊣ ~′.	1			<u>√</u>								
( <sub>U</sub>	TES:							75	BOE @ 16.0'; NOT REFUSAL				

									SOIL BORING LOG	·				
al.	ididi.	~ -	- A		~				Project Name: Loohn's Corning	Boring I	D: PD1-2			
		M	А	(		•	H.(	ì		Dama Ni				
	<u> </u>	_ V		Davido	حمد داداده	ina 0/	1101		Project Location: Corning, New York  Project No.: 3612102148 Client: NYSDEC	Page No	of:			
Desir		Congress S				ine o-	+101		Refusal Depth: — Total Depth: 16	-	ole ID/OD: 4" OD			
		cation: ۰ دمورک					70.4		Soil Drilled: Method: Direct Push	<del></del>				
_	ontra				Drill		<u></u>		P.I.D (eV): 10.6 Protection Level: Level D	Casing Size: NA Sampler: Macrocore				
Drill		Jeff, La				ш5			Date Started: 6/8/10 Date Completed: 6/8/10	<del></del>	Sampler: Macrocore Sampler ID/OD: 1.85"/4"			
		Model:				DT			Logged By: LJB Checked By: RLM 6/22/16	Hammer Wt/Fall: /30/30" NA				
_		Elevation		Grac					Water Level: [8.48 (MW-1) Time: ]300	<del></del>	r Type: Auto NA			
		le Inform				Mor	nitoring							
<del></del>					E	ę,	<u>_</u>	۵		USCS Group Symbol				
t bg	qui	ion/ (fee	9/sa	g	Sce	spac	sts	le I	Sample Description and Classification	P. Ga	Remarks			
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	ab Sample ID	Sample Description and Classification	Sym	Kemarks			
pt pt	mple	Sene Scov	SPT I	z	DF	DΗ	Lat	ab S		55				
ದಿ	Saı	Re	S	<u></u>	I.	Ы		ıï		ļ				
1.					0				0.0-0.4 TSDM	TSOM				
11									0.4 - 2.0 SILTY SAMO W GLANEL (SM).	Sm	,			
		: /			П			1	MOIST, BROWN TO OPANGEISH BROWN	1	٠.			
12		4.0			Н				STIND, FINE TO COARSE, LITTLE TO		·			
$\vdash$	1	2.0	-	-	H				SOME SILT AND GRAVEL INP,					
3	8	2.0	ŀ		H		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Some SICI AND GRADE INT,					
L		50%							ANGULAR TO ROULDED, TRACT CREAMICS (ROOTS)					
4		7010			Щ				Creation ( Robers)					
					W									
			1		0				4.0 -6.5 GRAVELY SAND (SMGM) MOIST,	Son-				
5			1		1		1		BROWN TO GRAY BROWN SAUD,	GM				
	1	4.0			H				FAIR TO COARSE SOME FILE TO	1				
6	2		ĺ		H	_			FINE TO COARSE, SOME FILE TO COARSE GRAVEL, FEW SILT, NP,					
-	1 3		-	-	$\vdash$		~		Correct Granter /					
17	10	2.5			- -	<u> </u>	ł		ANGULAR TO SUBROLLOZO					
<u>  '</u>		63%			Щ									
8		6010			1				•	Ì				
0					W				·	}				
[					4.8	0.9	8	(3)	8-12 SAME AS ABOVE	Sm-	@LCPD1002008lox			
٩					Y.8	Ė	ارها	Ü		GM	1330 BASTO ON			
	1	4.0			H٢	<del> </del>	1							
10			_	_	+		1				PID HIT			
_	3	4.0			H		ł							
u	الم	,			4					}				
11	-	100%			$\coprod$									
1.5														
12					V					<i>(</i>	,			
1/2					0			Γ	12-15 SAME AS ABOVE	CM-				
13		11/-			1		1			CW				
-	1	14,0			H	-	1			į				
14	<b> </b> ~	_		_	H	ļ								
' '	4 ì	3.0	-		1	1								
1	S	1			Щ	<u> </u>	]							
((		75%												
1.	Ī				V				0 1.7					
16									BOE @ 16; NOT REPUSAL					
NO'	TES:	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	1	ــــــــــــــــــــــــــــــــــــــ		٠	Ь			<u> </u>			

									SOIL BORING LOG				
		NI	٠.٨		7	ויו		7	Project Name: Loohn's Corning	Boring II	D: PD1-3		
	1	TAT		N		LJ		_	Project Location: Corning, New York	Page No.			
	511 C	ongress S	treet,	Portla	nd Ma	ine 04	101		Project No.: 3612102148 Client: NYSDEC	Of	f:		
Borii	ıg Lo	cation:	See S	Site P	lan				Refusal Depth: Total Depth: 16	Bore Ho	le ID/OD: 4" OD		
		Sud-d'				50	3 RA	الما	Soil Drilled: 6 Method: Direct Push	Casing S	ize: NA		
	ontra				Drill		<u> </u>		P.I.D (eV): 10.6 Protection Level: Level D	Sampler:	Sampler: Macrocore		
Drill		Jeff, Lar							Date Started: (9)10 Date Completed: (9)10	Sampler ID/OD: 1.85"/4"			
		Model:				DT				Hammer	Wt/Fall: 130/36 " NA		
		Elevation		Grad					Water Level: 18.48 (NW-1) Time: 1300 + 1210 6/8/10	Hammer	Type: Auto, NA		
	Samp	le Inforn	nation	1		Mor	itoring		ctatio (co				
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
					O		-		0.0-0.3 TOPSOIL AND ORGANIC	5m			
i	2- /	4.0' 1.5'		_			1-man 2731A		MATERIAL (18DM) (SM)  0.3-1.5 SILTY SAND W GRAVEL (SM)  BROWN, MOIST, SAND, FINE TO COARSE,  SOME SILT, LITTLE TO SOME FACTO	- ~			
3		38%							COARSE GRANEL, NP, ANGULAR TO				
		ופוטני			$\sqcap$				SOROLNOED (FILL)				
4					V					58 -			
<del> </del>					<del></del>			<del> </del>	4.0 - 6.5 GLAVELLY SAND - SILT (SP-GP)	GP			
ς υ τ 8	5.2	40' 2.5' (3%	-					_	PROJULITO CAPATISH (BROWN, MOIST,  SAND, FINE TO COTRISE, SOME FINE  TO COARSE GLANEL, LITTLE SILT, NP,  ANGULAR TO SUBROWNOEN; (ALLUVIAL  DEPOSITS). OCCUSIONIAL COBONES  > 2"	51-	,		
ς.					0	ļ			8-11 SAME AS ABOVE	68			
10 11 12	5 - 5	4.0° 3.0° 45%		-	*								
1,2					Ø				12-15 54NE AS MOOVE	58-	Q I Manianania in i		
13	1	3.0	_	-	5.8 1.7 0 0	0,2	6	<b>3</b>	PIO SCIRTEM AT 45 @ 13". SAMPLE TAXEN	G P	& LCPD1003013102x VOC 5 0830		
-	-	75%			۲	-							
16									BOE @ 16 ; NOT REFUSAL				
NO	TES:												

	SOIL BORING LOG	
	Project Name: Loohn's Corning	Boring ID: POI-4
MACIEC	Project Location: Corning, New York	Page No.
511 Congress Street, Portland Maine 04101	Project No.: 3612102148 Client: NYSDEC	of: Z
Boring Location: See Site Plan	Refusal Depth: Total Depth: 22	Bore Hole ID/OD: 2.75"/6"
Weather: RAIN		Casing Size: NA
Subcontractor: Nothnagle Drilling		Sampler: SPLIT SARREL (24")
Driller: Jeff, Larry (assistant)	2 6 6 11 12 14	Sampler ID/OD: 1.63" / 2 "
Rig Type/Model: Geoprobe 6610DT		Hammer Type: 4070 NA
Reference Elevation: Grade  Sample Information Monitoring	Water Level. 18.48 (MW-1) Time. 1360 ( \$10 110)	Training Type, 170 To
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	USCS Group Symbol Remarks
2.0 1 3 9	0.0-0.2 TSOM 0.2-0.7 SILTY SAND WI GRAVEL (SM); LOOSE, MOIST, BROWN SAND, FINE TO COARSE, SOME SILT, LITTLE GRAVEL, NP-LP(FILL)	SM & NO PID USED FOR S-1 (TOWET) -NO OPER, VISSAL EVIDENCE OF IMPACT.
3 1 5	CUTINAS CONSISTENT W OTHER BORINGS. EASILY ADVANCED TO 5'BGS	
6 ~ 2.0 1 0 0 6 8 7 35% 9 12	5.0-5.7 GRAVELLY SAND W/ SILT (SAN)  COMPALT, WET, BROWN SAND, FINETO  COMPACT, SOME GRAVEL, LITTLE SILT,  NP, ANGULAR TO ROUNDED (ALLUVIAL  PEPOSITS)	SM @LCPDIOUYOUS/OXX
8   9   9   9   9   9   9   9   9   9	* HARD PRIMING FROM 5-10" (NOTOMBLE) AT & DGS). FREQUENT COBSUES (2004DED) IN EXCESS OF 4"	
11 M 20 20 8 10 12 15 50% 4 25	10-1( SAME AS ABOVE; MOIST, COMPACT	PIO NOTUSED  (RAWING TOO HANG)  NO EVIDENCE OF  (MARCE)  LEPPIOON CICIOX  VOCS
13 14 15	· CUTINGS TRANSITION TO MORE  SANGY GRAVEL, LESSPL SANDS AND  SILTS  · DIFFICULT OPPILLING  · PIO SCREEN OF BOREHOLE (CUTINGS)  PILE 0.0 -1.9; AMBIENT 0.0-1.9	sen sm
NOTES:	BASED ON RAW. MULL NOT CONTRINERISE	FIGURE 4-

	SOIL BORING LOG			
MACTEC	Project Name: Loohn's Corning	Boring ID: POI - 4		
MIACIEC	Project Location: Corning, New York	Page No. 💙		
511 Congress Street, Portland Maine 04101	Project No.: 3612102148 Client: NYSDEC	of: Z		
Boring Location: See Site Plan		Bore Hole ID/OD: 2.75" [6"		
Weather: RAIN	Soil Drilled: 70 Method: 1+54	Casing Size: NA		
Subcontractor: Nothnagle Drilling		Sampler: Strit BARREL (24")		
Driller: Jeff, Larry (assistant)	Date Started: 6/9/10 Date Completed: 6/9/10	Sampler ID/OD: 1.63"   2"		
Rig Type/Model: Geoprobe 6610DT		Hammer Wt/Fall: りの# 33" NA		
Reference Elevation: Grade	Water Level: 18.48 (MW-1) Time: 1300 (06/18/11)	Hammer Type: AUTO NA		
Sample Information Monitoring		5		
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	OSCS Group Remarks		
16 32% 18 368 168 168 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	VERY DENSE, WET, SAND, FINE TO COARSE, LITTLE SILT THE GRAVEL, NP, SUBLEWHOED TO RESIDED	Ser DID MOT USED		
19 20	HARD BRUING 20-22 @ 20-21 @	Sm. Gur (49)		
21 (5) 30 (6) 30	GENTELLY JAND WI SILT (SM-SM) VERY PENSE, WET, GENTY BROWN JAND, FINE TO COARSE, SOME FINE TO COARSE GENTEL, LITTLE SIUT, NP, ANKOUNTO ROUNDED  HOLE OPEN AFTER REMOVAL OF AUCERS, COUNTSED TO 9 BUS. BATICFILLED WI CUTINGS  BOE @ 22 ; NOT REFUSAL	8:0 NOT USED (TOO NUCH RAM)		
NOTES:				

									SOIL BORING LOG				
		NΛ	Δ		7		F(	7	Project Name: Loohn's Corning	Boring I	D: PD1-5		
		TAT	$\Gamma$	7				_	Project Location: Corning, New York	Page No	. I		
Ĺ	511 C	Congress S	treet,	Portla	nd Ma	ine 04	101	<u> </u>	Project No.: 3612102148 Client: NYSDEC		f. I		
Bori	ng Lo	cation:	See S	Site P	lan				Refusal Depth: — Total Depth: 6		le ID/OD: 4" OD		
Wea	ther:	Suna	14	<u>, C</u>	ALA	Λ.	505		Soil Drilled: 6 Method: Direct Push	Casing S	Size: NA		
Subc	ontra	ctor:	Noth	nagle	Drill	ing			P.I.D (eV): 10.6 Protection Level: Level D	Sampler: Macrocore			
Drill	er:	Jeff, Lar	ту (а	ssista	nt)				Date Started: 6810 Date Completed: 6810		Sampler ID/OD: 1.85"/4"		
Rig '	Гуре/	Model:	Geor	robe	6610	DT			Logged By: LJB Checked By: £CM 6/22/10	Hammer	· Wt/Fall: 130   36 NAs		
Refe	rence	Elevatio	n:	Grad	le				Water Level: (8,48 (MU-1) Time: 1306	Hammer	Type: Auto NA		
	Samp	le Inforn	ation	1		Mor	nitoring						
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
<b>!</b>				-	0				0.0-0.4 TSOM, MOIST, DEBROWN, FIRST TO				
2 3	2-1	4.0 2.0 5°60	1	1	\(\frac{1}{4}\)		7		MEDIUM SAND, LITTLE COARGE SAND, SOME SILT, TRAVE GRAVEL, FREQUENT ORGANIGS, REOTS 0.4-2.0 GRAVELY SAND U SILT (SM-GM) MOIST, BROWN, SAND, FINE TO COALSE, SOME FINE TO COARSE GRAVEL, TRAVE				
5		<b>4.</b> 0			0			_	TO LITTE SICT, NP, POOLLY SOUTED, ADJAULAND TO SUBLEWINDED		@ 1600100500510000 VOCS 1045		
5 7 00	5-2	50%	J	_	0.9	0,0	<i>€</i> )	<b>(2)</b>	2.0-4.0 SAME AS ABONE COLOR WARLATIONLE (GLAY BROWN TO BROWN) PLOW HITS AT 5'AND 6' (LOW LEVER)		Vocs <del>1095</del>		
Ļ	ļ		ļ	<u> </u>	-	<u> </u>	<del> </del>		0 11 = 0 - 0 000				
9		4.0'			1				B-11.5 SANÉ AS ABOVE				
(2)	5-3	3.5	-	_			_	_					
1	2	88%			V								
(2					Ė								
13		4.0			0				12-15 SAME AS ABOVE				
19	3	3.0	-	_			_	_					
15	- 3	7500			4								
6									BOE @ 16'; NOT REFUSAL				

NOTES:

FIGURE 4-4 SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

	SOIL BORING LOG												
	INN T	N A	Λ		71			7	Project Name: Loohn's Corning	Boring I	D: PO [ -6		
		IVI	$\mathcal{L}$	II.					Project Location: Corning, New York	Page No	). [ ˈ		
	511 C	Congress S	treet,	Portla	nd Ma	ine 04	101		Project No.: 3612102148 Client: NYSDEC	0	f. (		
Bor		cation:							Refusal Depth: Total Depth: /6	Bore Ho	ile ID/OD: 4" OD		
We	ther:	SUMMIT	CA	rn	, 57	95			Soil Drilled: 16 Method: Direct Push	Casing S	Size: NA		
Sub	contra	ctor:	Noth	nagle	Drill	ing		_	P.I.D (eV): 10.6 Protection Level: Level D	Sampler	: Macrocore ID/OD: 1.85"/4"		
Dril	ler:	Jeff, Laı	ту (ая	ssista	nt)				Date Started: 6/2/10 Date Completed: 6/2/10				
Rig	Type/	Model:	Geor	orobe	6610	DT			Logged By: LJB Checked By: 1/15 (66 [21]12)		Wt/Fall: NA NA		
Ref	егепсе	Elevatio	n:	Grad	le				Water Level: 1858 (MW-1) Time: (300	Hammer	r Type: Auto NA		
	Samp	le Inforn	nation	1		Mor	itoring	,					
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
					0				0.0-0.4 TSOM	5m			
2 3	726	4.0° 2.0° 50°/10	ڕٛ				æ	<b>&amp;</b>	OH - 2.0 SILTY SANOW CLMY AND GRAVEL (SM)  MOIST, BROWN, SANO, FINE TO CEARSE, LITTLE  TO SOME SILT, LITTLE FINE TO COARSE GRAVEL,  FEW CLAY, MP-LP, ANGULAR TO SUBROMOEN,  POORLY SORTED (POTENTIAL FILL MATERIAL)	SM	ELCPDIOCLOUILOXX SUCLIPLBIPEST, NETTLS		
14				•	1					60			
5 6 7 6	6.5	4.0° 2.0° 50°00			VO +	D	<b>€</b>	<b>Ø</b>	4.8-6.0 SANDY GRANCE W/SILT (GP-GM) MOISTPOWET IN PLACES, BROWN, GRANTL, FINE TO COARSE, LITTLE SAND, FINE TO COARSE, FEW TO LITTLE SILT, NP, ANGULAR TO SUBROWNORD, POORLY SORTED (ALLUVIAL PEPOSITS) ** GRADATION SAMPLE CONFERED FROM REMAINING MATTRIAL FOULDWING SAMPLA AT ST FOR VOCS	SP-	©LCP010060410xx GRADATION € LCP0100600510AX VOCS		
9		402			0				B.O-8.4 GRAVELLY STAND W/ SILT (SP-SM) MOIST, BROWN TO CHANGE BROWN, STAND,	· ·			
[1]	1.79	3.0° 75°6	_			0	<b>(2)</b>	<b>E</b>	FINE TO CORRIE LITTLE GRAVEL, TRACE SILT, NP, PODRLY SONTED  8.4-11 GRAVELLY SAND (SP) MOIST, BROWN, SAND I COARSE TO FINE, LITTLE TO SOME FINE TO COARSE GRAVEL, TRACE SILT, NP, ANGULAN TO SUB ROUNDED, POORLY SONTED	SP	S CCPOICULOIOIXX Ve CS		
ίŞ		4.0			0				12-14,5 SAME AS ABOVE	SP			
[4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.5	_	L	H								
(<		(3 <sup>7</sup> 6)							BOE CIG ; NOT REFUSAL				
1	YTES:	<u></u>			l V	1	1	Ш.		<u> </u>			

FIGURE 4-4 SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

T-34 V.									SOIL BORING LOG			
A	18161-	N /F	A					7	Project Name: Loohn's Corning	Boring I	D: PD1-7	
	4	M	A		ï		E(	i	Project Location: Corning, New York	Page No		
	511 C	ongress S	treet 1	Portla	nd Mai	ine 04	101		Project No.: 3612102148 Client: NYSDEC		f: 1	
Bori		cation:						···	Refusal Depth: Total Depth: 16	<del></del>	le ID/OD: 4" OD	
Wea		5711				. 5	D4		Soil Drilled: 16 Method: Direct Push	Casing Size: NA		
$\vdash$	ontrac				Drilli	-,			P.I.D (eV): 10.6 Protection Level: Level D	Sampler	: Macrocore	
Drill	er:	Jeff, La							Date Started: 4 8 10 Date Completed: 6 8 10	Sampler	ID/OD: 1.85"/4"	
Rig '	Type/l	Model:	Geor	robe	66101	DT			Logged By: LJB Checked By: RLM 6/22/10		Wt/Fall: 130/36"NA	
Refe	rence	Elevatio	n:	Grad	e				Water Level: 18.5% (Mw-1) Time: 1300	Hammer	Type: Auto NA	
	<del></del>	le Inforn	nation	l		Mor	itoring	·	•	d		
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks	
					0				D.0-0.5 TSOM	SM		
1									05-25 GLANELLY SAND W/ SILT (SM)			
		40			П				MOIST, BROWN TO GRAMISH BROWN, SAND			
12	_		_	_	П			_	CORRETO FINE, LITTLE TO. SOME FINE TO			
	5	25							CORPE TO THE CONTRACT OF SECOND			
3		63%			П				COMEST GRAVEL, LITTLE SILT, NP, POORLY			
		656	ļ		H				SANTO ANGULAR TO SUBROMOED			
4	·				V		1					
$\vdash$	<del> </del>		<del> </del>		0			$\vdash$	\$ 4.0-7.0 SAME AS ABOUT! DRY IN			
5		,			<del>-</del> ا		1		2.5 4.0 - 7.0 34100 113 34100 00			
-	1	40	ļ		H	0	<b>®</b>	1	practs		@LCPD100700510xx	
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									SOIL BORING LOG				
	<b>MMACTEC</b>							7	Project Name: Loohn's Corning	Boring I	D: PD1-9		
		IVI	$\Gamma$	IC	_ 1_				Project Location: Corning, New York	Page No	. (		
	511 Congress Street, Portland Maine 04101								Project No.: 3612102148 Client: NYSDEC	0	f: \		
	Boring Location: · See Site Plan								Refusal Depth: Total Depth: 16		le ID/OD: 4" OD		
Weat	her:	Suna					) 2		Soil Drilled: 16 Method: Direct Push		Casing Size: NA		
	ontra				Drill	ing			P.I.D (eV): 10.6 Protection Level: Level D	Sampler			
Drille		Jeff, Lar							Date Started: ( 8/10 Date Completed: ( 8/10	Sampler	ID/OD: 1.85"/4"  Wt/Fall: 10 10 NA		
		Model:				DI	<del>.</del>	·	Logged By: LJB Checked By: A (61 21 16)				
		Elevation le Inform		Grad	le .	Mor	itoring		Water Level: 18-48 (MV-1) Time: (300	Hammer	Type: ANN NA		
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Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks		
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'	:				0								
,		40			4.2				0-4 -3.0 SILM SAND W GRAVEL AND CORY				
1	-	3.0	_						(SM-ML) MOIST, BROWN, SAND, FINE				
	ら	<i>J</i> , <i>c</i>			1,9				TO COMELÉ, SOME SILY, TRACE TO				
3.		بعن د.		Ì	117	90	<b>@</b>	<b>6</b>			@LCP7180200310xx		
		756			119	1.6	)	V	MP - LP, POORLY SONTED, ANGULAR		Noce		
4													
					, Li				FO ROJUDED (FILL)				
5		El .			0.4				4.0 - 70 GRAVERLY SAND W/ SICT (SM)				
		40											
,					0.9				MOIST, BROWN TO DEMINERSH RED		,		
6	2	3,0							BROOM SAND, FINE TO COMSE, LITTLE	}			
ر	5	75'20	٠	_	0,4		_	_	FINE TO COARSE GRAMEL, LITTE SILT,				
7		7 3 10			0				MP, POORLY SONTED, ANGULAR TO				
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6									ROWN ED (ALLUVIAL DEPOSITS)				
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									SOIL BORING LOG			
MACTEC								7	Project Name: Loohn's Corning	Boring 1	Boring ID: PIDI-9	
	IVITIOILLO							_	Project Location: Corning, New York	Page No	Page No.	
511 Congress Street, Portland Maine 04101									Project No.: 3612102148 Client: NYSDEC		of:	
Boring Location: See Site Plan									Refusal Depth: Total Depth:		ole ID/OD: 4" OD	
Wea	ther:	RAI							Soil Drilled: 6 Method: Direct Push		Size: NA	
Subo	ontra				Drill	ing			P.I.D (eV): 10.6 Protection Level: Level D	Sampler		
Drill		Jeff, La							Date Started: 6 9 0		ID/OD: 1.85"/4"	
		Model:				DT			Logged By: LJB Checked By: Rin 5/22/10		r Wt/Fall: (30/30" NA	
		Elevatio	_	Grac	ie	Mo	itanina		Water Level: 18,48 (MW-1) Time: 1300 Hate 6/8/1	Hamme	r Type: AMTO NA	
<b></b>		le Inform	пацоі	<u>1</u>	_		itoring	_	o Harris	1 💂		
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks	
					0				0.0-0.3 TSOM	5.M		
١١.		4.0			62	3,0	<b>(2</b> )	1	· · · · · · · · · · · · · · · · · · ·	- C-	6) 10090010001000	
<b>—</b>		1.			1.9	11-		9	0.3-2.9 SILTY SAND W GRAVEL (JM)	3 M	(From 0.5 to 1.00)	
2		20			04				BROWN, MOIST, SAND, FINE TO COARSE,		(Farm 0.5 +01.0")	
<u> </u>	!		-	_	u.7				SOME SILF, LITTLE TO SOME FINE TO		(72	
3	5	50/10		_	·				COARSE GRAVEL, NP , ANGULAR TO			
_		50 10							ROUMOED (FILL)		·	
И												
					<u> </u>	<u> </u>			(0,00)			
1					0				4.0-6.5 GRAVELLY SAMP W SILT (SP-GP)			
)									BROWN TO GRAYISH BROWN, MOIST,			
		4.0							SAND, FINE TO COARSE, SOME FINE			
6	N	-			П							
-	4	2.5		-	$\sqcap$		-	-	NP, ANGULAR TO SUBROMOED,	1 .		
7	<b>'</b> '	· ·			H				Occasional Cobbles > 2" (ALCUAL			
$\vdash$		6310			$\vdash$	_			DEPOSITS)	,	,	
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9					0				8.0-10.5 SAME AS ABOVE			
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	SOIL PODING LOC			
	SOIL BORING LOG  Project Name: Lockels Coming	Boring ID:		
MACTEC	Looms Corning	Boring ID: POI - 12		
WITTCILC	Project Location: Corning, New York	Page No.		
511 Congress Street, Portland Maine 04101	Project No.: 3612102148 Client: NYSDEC	of: 2		
Boring Location: See Site Plan	Refusal Depth: Total Depth: Zo	Bore Hole ID/OD: 4" OD		
Weather: SUNNIT CALM, 50-	Soil Drilled: 20 Method: Direct Push	Casing Size: NA		
Subcontractor: Nothnagle Drilling	P.I.D (eV): 10.6 Protection Level: Level D	Sampler: Macrocore		
Driller: Jeff, Larry (assistant)	Date Started: ( 8/10 Date Completed: ( 5/10	Sampler ID/OD: 1.85"/4"		
Rig Type/Model: Geoprobe 6610DT	Logged By: LJB   Checked By: B   Col   Miles	Hammer Wt/Fall: 130 Kn NA Hammer Type: Make NA		
Reference Elevation: Grade	water Level: [8-16 (MW)] Time. [392	Hammel Type. A IN THA		
Sample Information Monitoring	<b>-</b>	<u>a</u>		
Depth (feet bgs) Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	Remarks Remarks		
	0.0 - 0.4 TSOM	TSOM		
2 2.5	Q.Y-2.5 SILTY SAND W GRAVEL AND CLAM  (SM -ML) MOIST, BROWN TO DEADLEISH  BROWN, FINE TO COARSE SAND, LITTLE	5m- mL		
3 63%	TO SOME SPET & SILT, LITTLE GRAVEL, TRACE CLAY, NP-LP, PEORLY SORTED, ANGULUM TO ROTHOES (FILL)			
7   1	(110)			
5 4.0	Moist, Brown to Ormageis it Brown	SM DEPDIOIZODS 10 xx		
6 7 3.0 T	GRAYISH BROWN, SAMO, FINE TO COARSE, LITHE TO SOME FAR TO (CARSE GRAVEL, FEW TO LITTLE SILT, NY, FOORLY SORTED, ANGULAR TO ROSHOED (ALLOVIAL DEPOSITS)	Vocs		
	_			
9 4.0	3,6-12.0 SAME +> ABOVE	S8-		
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Q 4.0 Q	12.0 - 15.5 SAME AS ABOVE	50- 5m		
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- "									SOIL BORING LOG		
		<b>N</b> //	Λ		7		E(	_	Project Name: Loohn's Corning Boring	ID: PD1-12	
		IVI	$\mathcal{L}$	1	۔ ر			_	Project Location: Corning, New York Page N	o. <b>2</b>	
	511 Congress Street, Portland Maine 04101						1101		Project No.: 3612102148 Client: NYSDEC	of: Z	
Bori		cation:							Refusal Depth: Total Depth: 20' Bore H	ole ID/OD: 4" OD	
Wea	ther:	SUNA	14	CAL	.M.	50	٠,		Soil Drilled: 20 Method: Direct Push Casing	Size: NA	
Subc	ontra	ctor:			Drill				P.I.D (eV): 10.6 Protection Level: Level D Sample	г: Масгосоге	
Drill	er:	Jeff, Lar	ту (а	ssista	nt)					r ID/OD: , 1.85"/4"	
		Model:	Geop	orobe	6610	DT				er Wt/Fall: 130 30" NA	
Refe	rence	Elevatio	n:	Grad					Water Level: 18.48 (NW-1) Time: 1350 Hamme	er Type: Auto -NA	
		le Inforn		1		Mor	nitoring			'	
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification  Sympol  Symbol	Remarks	
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18	1	4.0	_	_			·		se- sm		
(9.	٠ + ك	100%				D	<b>⊙</b> -	₾		DLCPDIOIZO1910xx VOCS (1/2 02 MIERVAL BELOW WATCH SURFACE (18 -20))	
20					W.				BOE @ 20 , NOT REFUSAL	( 1/2 of noterome	
										BELOW WATER	
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NOTES: WATER ESTIMATED AT MIB.O FT BELOW GROWIDS ORFITE, CONSISTENT

FIGURE 4-4

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SOIL BORING LOG

NYSDEC QUALITY ASSURANCE PROGRAM PLAN

1,41	: .								SOIL BORING LOG			
MACTEC							F(	~	Project Name: Loohn's Corning	Boring ID: PP1-13		
								_	Project Location: Corning, New York	Page No	Page No.	
511 Congress Street, Portland Maine 04101							101	<u> </u>	Project No.: 3612102148 Client: NYSDEC	of: J		
Boring Location: See Site Plan									Refusal Depth: Total Depth: 70	Bore Hole ID/OD: 4" OD		
Wea		80M					3		Soil Drilled: 100 Method: Direct Push	Casing S		
Subc	ontra				Drill	ing			P.I.D (eV): 10.6 Protection Level: Level D	Sampler		
Drill		Jeff, Lar							Date Started: 6 8 10 Date Completed: 6 8 10	Sampler		
		Model:				DT			Logged By: LJB Checked By: BAS		Wt/Fall: 136 130 -NA	
		Elevatio		Grad	le	3.6	·		Water Level: 8.78 (MW-1/rime: 1/200	Hammer	Type: ALD -NA	
		le Inforn	atior	1		· · · · · · · · · · · · · · · · · · ·	itoring	T _		g,		
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks	
					Q				0.0-0.4 Tsom			
		(A)							0.4-1.7 SILTY SONIP W(GAAVEL(SM)			
		J.o				·			MOIST, BROWN, FINETO COARSE SAND,			
2		20							Miss , Dieter 1 - 70 COARSE	ĺ		
	5		_	-				_	Some SICT, LITTLE FORE TO COARSE	ĺ		
3.	-0	no.			H				GRAVEL, NO ANGULAR TO SUBREULIDED,	İ		
-		50%			$\vdash\vdash$				POURLY SOURD (FILL)	ĺ		
4					<b>₩</b>	$\vdash$			1.7-2.0 GRAVELLY SAND W/SILT (SPSM)	ĺ		
)				ļ	¥				GRADES COARECT THAN HISTER			
5					0				CESSER FINES (SILT), INCREMSED	}		
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NOTES:

									i S	SOIL BORING	G LOG			
MACTEC								7	Project Name:	Loohn's Corni	ng		Boring I	101-13
WIACILC								_	Project Location	on: Corning, New			Page No	
511 Congress Street, Portland Maine 04101									Project No.:	3612102148	Client: NYSI			f: Z
Boı	ing Lo	cation:	See	Site P	lan				Refusal Depth:		Total Depth: Z			le ID/OD: 4" OD
We	ather:	JUMA	17,	CAL	m,	<u>50:</u>	<u> </u>		Soil Drilled:	20.0	Method: Direc		<del></del>	Size: NA
	contra		Noth	magle	Drill	ing			P.I.D (eV):	10.6	Protection Level:		Sampler	
	ller:	Jeff, La							Date Started:	618110	Date Completed:		Sampler	
Rig	Туре	Model:	Geo	probe	6610	DT			Logged By:	LJB	Checked By:			Wt/Fall: 30 30 NA
Ref		Elevatio		Grad	ie				Water Level:	18,48 (MW-1)	Time: (300		Hammer	Type: Alto NA
	Samp	ole Inform	natio	1		Mor	nitoring		]					
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID		Sample Descript	ion and Classificatio	n	USCS Group Symbol	Remarks
17		4.0/			0				16-1%-5	SAME AS	ROOVE	-		ATPANELIT DIW
1 mg 20		63%			V				B05 C1	0-0/) nor	atrigue.			
						-	1					•		

NOTES:

SURFACE SOIL SAMPLE FIELD DATA RECORD
Project: LOCIAN'S CORNING  Project Number: 3612 to 2148   02.01  Site: CORNING NT  Date: 6/9/10  Time: Start: 0/620/550 End: 1625/555  Signature of Sampler: Signature of Sampler:
SOIL SAMPLE  DEPTH OF SAMPLE INTERVAL:  (Feet below ground surface) reported to 1/10 fool    JHAND AUGER   JETHYL ALCOHOL   JESS METHANOL/ 75% ASTM TYPE II WATER   JESS BUCKET   JECHNOL   JESS METHANOL/ 75% ASTM TYPE II WATER   JESS BUCKET
SAMPLES COLLECTED  MATRIX  / IF REQUIRED  AT THIS LOCATION  STORED  ONE LOCATION  STORED  ONE LOCATION  STORED  ONE LOCATION  STORED  ONE LOCATION  STORED  ONE LOCATION  STORED  ONE LOCATION  ONE LO
NOTES/SKETCH SAMPLE CELEGED FROM 0.5-1.0. SAMPLE DESCRIPTION:  SAMPLE CELEGED FROM 0.5-1.0. SAMPLE DESCRIPTION:  0.0-0.5 TOPSOIL AND ORGANIC MATTERIAL (TSOM)  NOIST, PAUL DROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  NOIST, PAUL BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME FINE SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME SAMO, LITTLE TO SOME CLAM,  CATCHER BROWN, SILT, SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTLE TO SOME SAMO, LITTL

Site: Corning A19  Date: 6/9/10
(.10170
Time: Start: 1620 End: 1520
Signature of Sampler:
-0
R COLLECTION: DECONTAMINATION FLUIDS USED:  ALL USED  [ ] ETHYL ALCOHOL [ ] 25% METHANOL/75% ASTM TYPE II WATER  [ ] DEIONIZED WATER  [ ] LIQUINOX SOLUTION [ ] HEXANE [ ] HNO 3 SOLUTION [ ] POTABLE WATER  LECTED: [ ] NONE  SOIL TYPE: [ ] CLAY DNS: SAND [ ] ORGANIC [ ] ORGANIC [ ] GRAVEL
SEE SITE PLAN
VOLUME COLLECTED/NOTES  LCBICSS = 02 001 10 xx Consultab  S 07 JAIL FILLED
TY SAND W/ GLANEL (SM-GM) TY SAND W/ GLANEL (SM-GM) TO BOUND TO GLAYEST BROWN SAND, TO COARSE, AND GLAVEL, FINE TO SE, LITTLE SILT, NP, ANGULARIED ADED (NO PID O.OPPM)

SURFACE SOIL SAMPLE F	IELD DATA RECORD
	SHO CORNING MY
Project: LOOHN'S CORNING	(1.1.
Project Number: 3612102148	Date: 61/1630 Engl: 1635
BCB1655003001104	Signature of Sampler:
Sample Location ID: LCB IC 55 0 0 3 0 0 1 (0 x)	Signature or cample.
SOIL SAMPLE	·
PERTUGE SAMPLE INTERVAL: 0.5-1-0 EQUIPMENT USED F	OR COLLECTION: DECONTAMINATION FLUIDS USED:
(Feet below ground surface)	ALL USED  N   ETHYL ALCOHOL
reported to 1/10 foot	25% METHANOL 75% ASTM TYPE II WATER
[X] HAND SPOON [ ] ALUMINUM PANS	K] DEIONIZED WATER  M LIQUINOX SOLUTION
[ ] SS BUCKET	1 HEXANE
i i	POTABLE WATER
TYPE OF SAMPLE C	
[ ] DISCRETE  X  COMPOSITE	SOIL TYPE:
·-	[ ] CLAY TIONS: [ ] SAND
SAMPLE OBSERVATING ODOR	Ø IXI ORGANIC
K COLOR NOW	I GHAVEL
[]	
FIELD GC DATA: XIFIELD DUPLICATE COLLECTED SAMPLE	LOCATION SKETCH:
DUPLICATE ID: LCBICSS00300//0XID [] YES	SEE SITE PLAN
PID Reading D. O PP	
PID Reading	
SAMPLES COLLECTED	
SAMPLES COLLECTED  MATRIX	
/ IF REQUIRED OF AT THIS LOCATION OF COLLECTED COLLECTED	VOLUME COLLECTED/NOTES
	LE COBRESSOOZEOTIOXX AND
INDUCC IN IN IN IN IN INC. BY	(1) 03 03 1 1 0xD COURTED
[X] PEST [X]	12/8 06 300
[NPCB [NORGANICS [] [] []	
IX METALS IX	
NOTES/SKETCH	ED AS SIMILAL TO BILSS-1
SOIL DESCRIPTION'S SOILS PERSON	1 al A (MI) BROWN TO DANK BROW.
SANDY SILT U	(CLAY (ML) BROWN TO DAIR BROWN,
moist, sict,	LITUE TO SONG FINE SAND,
1. The CLAN	, NP TO LP, TRAVE FINE GRAVEL
Cifiot	(C
2 163	CHELLER DY

SAMPLED BY: LSB

CHEUCOP BY EN 6/22/10

SURFACE SOIL SAMPLE FIE	LD DATA RECORD
Project Number: 3612102148 (02.0) (21)	Site: Corning, and SS-I  Date: 6 8 10  Time: Start: 1030 End: 1030  Signature of Sampler:
DEPTH OF SAMPLE INTERVAL:  (Feet below ground surface)  DEPTH OF SAMPLE INTERVAL:  D.5-1.3  EQUIPMENT USED FOF [ ] HAND AUGER [ ] S.S. SPLIT SPOON	R COLLECTION: DECONTAMINATION FLUIDS USED:  / ALL USED [ ] ETHYL ALCOHOL [ ] 25% METHANOL/75% ASTM TYPE II WATER
reported to 1/10 foot   X SHOVEL  X HAND SPOON     ALUMINUM PANS     SS BUCKET	DEIONIZED WATER    CALIQUINOX SOLUTION    HEXANE    HNO 3 SOLUTION    POTABLE WATER
SAMPLE OBSERVATION  SAMPLE OBSERVATION  A ODOR MONE  A COLOR MONE	SOIL TYPE: [ ] CLAY ONS: [ ] SAND [ ] ORGANIC
SAMPLE LC	CATION SKETCH: SEE SITE PLAN
SAMPLES COLLECTED  MATRIX	
[] VOC [  SVOC []   METO [  N PEST []   M G/24/m [] SAME	VOLUMB COLLECTED/NOTES  NE CONTEST FOR SVUL PEST ACB  US TROM GAS LINE EXCAVATION!  UE CONTEST FROM 0.5 -14" (1.2")  NE CONTEST & 1030 LPB 6/24/16

Rin 6/22/10

NOTES/SKETCH

SURFACE SOIL SAMPLE	IELD DATA RECORD
Project: LOUITN'S (ORNING  Project Number: 3612102148 (EZ,0) (25)  Sample Location ID: LCPO10100210X	Site: COENING UT (PDI-10)  Date: 6910  Time: Start: 1620 End: 1650
SOIL SAMPLE	
DEPTH OF SAMPLE INTERVAL: 2.0  (Feet below ground surface)  reported to 1/10 foot  (Shovel  HAND SPOON  ALUMINUM PAN  SS BUCKET  TYPE OF SAMPLE  DISCRETE  COMPOSITE  SAMPLE OBSERVA  FIELD GC DATA: [ ] FIELD DUPLICATE COLLECTED  DUPLICATE ID: SAMPLE  SAMP	I ETHYL ALCOHOL [ ] 25% METHANOU 75% ASTM TYPE II WATER [ ] 25% METHANOU 75% ASTM TYPE II WATER [ ] DEIONIZED WATER [ ] HEXANE [ ] HEXANE [ ] HNO 3 SOLUTION [ ] POTABLE WATER [ ] NONE  SOIL TYPE: [ ] CLAY [ ] SAND [ ] ORGANIC [ ] ORGANIC [ ] GRAVEL  E LOCATION SKETCH:
PID Reading NOT USED (TOO WET)	
SAMPLES COLLECTED  MATRIX  / IF REQUIRED OF ATTHIS LOCATION OF COLLECTED COLLECTED  [X] VOC [] [X] [X] VOC [] SVOC [] [] [] [] [] [] [] [] [] [] [] [] []	VOLUME COLLECTED/NOTES  1 70 SOLIDS STANIE CONFITMS  2 BLS AT THIS LOCATIONS
[] PCB [] INORGANICS []	FOR PDI-11. NO ORGANICS, FABRIC
SEE SANDLE DESCRIPTION (NOTES	JNT.

1 BA 1/2/210

SURFACE	SOIL SAMPLE FIELD DATA RECORD
Project: LOOHNI) CORNING  Project Number: SW2102148 /02	Site: COMING NI 9 PDI-11  Date: 6 9 10  Time: Start: 300 Pnd: 1405
Sample Location ID.	Signature of Sampler:
DEPTH OF SAMPLE INTERVAL:  (Feet below ground surface) reported to 1/10 foot	EQUIPMENT USED FOR COLLECTION:  [ ] HAND AUGER [ ] S.S. SPLIT SPOON [ ] SHOVEL [ ] HAND SPOON [ ] ALUMINUM PANS [ ] SS BUCKET [ ] HEXARCE  TYPE OF SAMPLE COLLECTED: [ ] HONG [ ] NONE  SAMPLE OBSERVATIONS: [ ] ODOR NONE [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC [ ] ORGANIC
FIELD GC DATA: [X FIELD DUPLICATE COLLECTE  DUPLICATE ID: LCPOIDIO  LCPOIDIO	10 210 MS12 (191 NO SEC 3112
IF REQUIRED OF AT THIS LOCATION STORY COLLECTED  [X] VOC [Y] [X] [X]  [X] SVOC [X] [X]  [X] PEST [X] [X]  [X] PCB [X]  [Y] INORGANICS [Y]  [X] METALS [X]  [X] 7.6 SOLIOS [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y] [Y] [Y]  [Y]	VOLUME COLLECTED NOTES    Y
NOTES/SKETCH  PUE TO ACLESS RE  THE SITE, BORING  STAINLESS CTEEL  SOIL DESCRIPTION	STRICTIONS (OVERHEND UTILITIES) PISCOURCED AT  L PDI-H WAS ADVANCED BY HAMP USING A  SHOREZ. Y SAMPLES CONEUTED (SEE AROVE NOTATION)  15 Ar FOLLOWS:
0.0-0.7 0.7-1.5	

SURFACE SOIL SAMPLE F	IELD DATA RECORD
Project: LOUINS CORNING  Project Number: 3612102148   02.01 (21)  Sample Location ID: LC(01044002100)	Site: COLNING, NT (PDI-14)  Date: 6910  Time: Start: 620 End: 1655
SOIL SAMPLE  DEPTH OF SAMPLE INTERVAL: 2	N [ ] ETHYL ALCOHOL [ ] 25% METHANOL/75% ASTM TYPE II WATER [★] DEIONIZED WATER
TYPE OF SAMPLE C    COMPOSITE	[ ] HAZAINE [ ] HNO 3 SOLUTION [ ] POTABLE WATER  OLLECTED: [ ] NONE  SOIL TYPE: [ ] CLAY
FIELD GC DATA: [ ] FIELD DUPLICATE COLLEGE AT [ 1YES	[] ORGANIC
DUPLICATE ID:	
	VOLUME COLLECTED AT 7 BUS  SAMPLE COLLECTED AT 7 BUS  SOLIOS AS PAGE OF UCC ANALYSIS
[] SVOC [] [] [] [] [] [] [] [] [] [] [] [] []	
NOTES/SKETCH SOLL DESCRIPTION SIMI WITHOUT ORGANIC INTOR	VAL POBRIS ENCOUNTERED

JBAS 06/21/2010

		GROUNDWATER S	AMPLING RECO			
	PROJECT N			LOCATION ID Corning	W-13	DATE 6/9/10
MACT	i i	Loohn's Corning S UMBER/TASK	ite	START TIME	, 111	END TIME
IVIACL	LI PROJECT N	3612102148/02.0		15Z5	DED	/S 3-0
511 Congress Street, Portland Maine 0	SAMPLE ID		SAMPLE TIM 1530	AE SITE NAME/NUM 8510		NYSDEL
TOWER OW		OWELL MONITORI		OPROBE PORE WA	ATER W	ELL INTEGRITY YES NO N/A
SAMPLE TYPE LOW FLOW		6-IN. 8-IN.	OTHER		CAP	na na na
WELL DIAMETER 1-IN.		TOP OF CASING (TOC)		Surface	CASING LOCKED	NA NA NA NA
MEASUREMENT POINT TOP	OF RISER (TOR)	TOP OF CASING (TOC)			COLLAR	NA NA NA
INITIAL DTW	FINAL DTW	FT	PROT. CASING STICKUP (AGS)		TOC/TOR DIFFERENCE	FT
(TOR)	TOR)		PID		REFILL TIME	R NA OTO
WELL DEPTH (TOR)	SCREEN LENGTH	4 FT	AMBIENT AIR		SETTING .	SEC
WATER	DRAWDOWN	GAL	PID WELL MOUTH	O O PPM	DISCH. TIMES SETTING	NA SEC
COLUMN (TOR)	FT VOLUME (initial - final x 0.16 {2				PRESSURE	
CALCULATED	TOTAL VOL.	(O, I GAL	DRAWDOWN/ TOTAL PURGED		TO PUMP	NA PSI
GAL/VOL (column x well rad. squared {2 in. <sup>2</sup> } x 0.04	41) (mL per minute x total	minutes x 0.00026 gal/mL)		· · · · · · · · · · · · · · · · · · ·	· · ·	
FIELD PARAMETERS WITH STABI	LIZATION CRITERIA	SP. CONDUCTANCE	DISS. O <sub>2</sub>	RBIDITY (ntu) REDOX (mv)	PUMP INTAKE	COMMENTS
TIME DEPTH TO PURGE WATER (FT) (mL/	ERATE TEMP. (°C) (min) (+/- 10 degrees)	(ms/cm) (+/- 3%)	(mg/L)	/- 10% <10 ntu) (+/- 10 mv)	DEPTH (ft)	COMMUNITY 15
	_ 16.0	1.17 8.2			20	
1530 SAMPLE	COLIECTED	LC9we13020				
1000 01111		NAL VAUCES				
	- 16	1.2 8:				
					<del>                                     </del>	
					-	
	·				-	
					1.	
		<del> </del>				
					<del> </del>	
					<del>                                     </del>	
						1
EQUIPMENT DOCUMENTATION TYPE OF PUMP	DECON FLUIDS USE		G/PUMP/BLADDER MA	ATERIALS	┌── <sup>AI</sup>	DDITIONAL EQUIPMENT USED ELECTRIC WATER LEVEL METER
PERISTALTIC PUMP	LIQUINOX DEIONIZED WAT	SILICON TUE ER TEFLON TUB	ING P	S. STEEL PUMP MATERIAL PVC PUMP MATERIAL		FLOAT ACTIVATED WL METER INTERFACE PROBE
SUBMERSIBLE PUMP BLADDER PUMP	POTABLE WATE		ED TUBING	GEOPROBE SCREEN TEFLON BLADDER		PID NY386C #2
WATTERA PUMP	HEXANE	LDPE TUBIN		OTHER		TURB. METER FILTERS
OTHER CHECIC VALV	METHANOL A	· ·			NUMBE	TYPE
ANALYTICAL PARAMETERS	METHOD	FIELD	PRESERVATION	VOLUME	SAMPLE COLLECTE	SAMPLE BOTTLE D ID NUMBERS
PARAMETER	NUMBER 1100-TAL V	FILTERED	METHOD	REQUIRED	COLLECTE:	LIGW0130201025
<b>∑</b> vocs	SW <del>846 8260</del>	5   22	HC1 / 4° C 4° C	3 X 40 ML 2 X 1 L AG	1	200000000000000000000000000000000000000
SVOCs PESTICIDES/PCBs	SW846 8270 SW846 8081		4° C HNO <sub>3</sub> to pH <2	2 X 1 L AG 1 X 500 ML P		
METALS OTHER	SW846 6010		11103 10 pir -2			
OTHER OTHER						
OTHER						
PURGE OBSERVATIONS		11 ONE / D /	LOCATION SK		1	
PURGE WATER YES (	NUMBER OF GA	allons $40.1$	- SITE 1	3012014	f	
NOTES CHAIR VALUE / TIM	BING PROVIDED B	7 .				
MOTHNALLS HORI	34 U-10 (MO19	(-10) US FO.			ĺ	<b>%</b>
1. Ver	- Print Name	LUB BENEDIL	r .	4w-14	1 .	4w-15 FIGURE
Sampler Signature:	rime isame	Lucus Benedic	GW-13	· · · · · · · · · · · · · · · · · · ·	LOW FLOW	CROHNDWATER DATA RECO
Sampled By: 49	Checked B	・ にして ししひしし		NYS	DEC QUALT	TY ASSURANCE PROGRAM P

### APPENDIX B

### 2010 RI ANALYTICAL RESULTS TABLES AND DATA USABILITY REPORT

### DATA USABILITY SUMMARY REPORT 2010 REMEDIAL INVESTIGATION SAMPLING PROGRAM LOOHNS CORNING SITE CORNING, NEW YORK

### 1.0 INTRODUCTION

Thirty-three soil samples were collected from June 8th, 2010 to June 9<sup>th</sup>, 2010 at the Loohns Corning Site (Site) in Corning, New York. Sample analyses were completed by Chemtech laboratory located in Mountainside, New Jersey. Results were reported in sample delivery groups (SDGs) B2618 and B2643. A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed for:

- Volatile organic compounds (VOCs) by USEPA Method 8260B,
- Semi volatile organic compounds (SVOCs) by USEPA Method 8270C,
- Pesticides by USEPA Method 8081,
- Aroclors (PCBs) by USEPA Method 8082,
- Metals by USEPA Method 6010B/7471,

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on the NYSDEC "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010. Quality control (QC) limits from USEPA Region II data validation guidelines and laboratory QC limits were used during the data evaluation. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), internal standard response, data transcription, electronic data reporting, calculations, and data qualification.

The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

### 2.0 VOCs

### Blanks

SDG B2618: Acetone (13  $\mu$ g/kg) and methylene chloride (8.5  $\mu$ g/kg) were reported in the trip blank. Action levels were established at ten times the reported blank concentrations. Reported detections for acetone and methylene chloride were less than the action level and were qualified non-detect (U) if greater than the reporting limit, or if less than the reporting limit, were qualified non-detect (U) at the reporting limit.

P:\Projects\nysdec1\projects\Loohns Corning\3.0\_Site\_Data\3.4\_Test\_Results\DUSR\Loohns - DUSR June 2010 SOIL.doc Page 1 of 7

### Initial Calibration

**SDG B2618:** For a subset of samples, the percent relative standard deviation (RSD) for dichlorodifluoromethane (25) exceeded the QC limit of 20. Associated sample results for dichlorodifluoromethane were non-detect, and the reporting limits were qualified estimated (UJ).

For a subset of samples, the RSD for dichlorodifluoromethane (24) and acetone (22) exceeded the QC limit of 20. Associated sample results for dichlorodifluoromethane and acetone were non-detect, and the reporting limits were qualified estimated (UJ).

**SDG B2643:** For a subset of samples, the RSD for dichlorodifluoromethane (29) and acetone (22) exceeded the QC limit of 20. Associated sample results for dichlorodifluoromethane and acetone were non-detect, and the reporting limits were qualified estimated (UJ).

For a subset of samples, the RSD for chloroethane (24) exceeded the QC limit of 20. Associated sample results for chloroethane were non-detect, and the reporting limits were qualified estimated (UJ).

### Continuing Calibration

SDG B2618: For a subset of samples, the percent difference for chloroethane (24) exceeded the QC limit of 20. Associated sample results for chloroethane were non-detect, and the reporting limits were qualified estimated (UJ).

For a subset of samples, the percent difference for dichlorodifluoromethane (50), chloromethane (27), vinyl chloride (28), chloroethane (31), trichlorofluoromethane (23), carbon disulfide (21), and 1,1,2-trichloro-1,2,2-trifluoroethane (24) exceeded the QC limit of 20. Associated sample results for dichlorodifluoromethane were non-detect and were qualified previously under the initial calibration criteria. Associated sample results for chloromethane, vinyl chloride, chloroethane, trichlorofluoromethane, carbon disulfide, and 1,1,2-trichloro-1,2,2-trifluoroethane were non-detect, and the reporting limits were qualified estimated (UJ).

SDG B2643: For a subset of samples, the percent difference for dichlorodifluoromethane (34), trichlorofluoromethane (24), acetone (27), 1,2-dichloropropane (22), bromodichloromethane (21), 4-methyl-2-pentanone (26), toluene (21), trans-1,3-dichloropropene (24), cis-1,3-dichloropropene (21), 1,1,2-trichloroethane (27), 2-hexanone (38), 1,2-dibromoethane (25), and styrene (22) exceeded the QC limit of 20. Associated sample results for dichlorodifluoromethane and acetone were qualified previously under the initial calibration criteria. Associated sample results for trichlorofluoromethane, 1,2-dichloropropane, bromodichloromethane, 4-methyl-2-pentanone, toluene, trans-1,3-dichloropropene, cis-1,3-dichloropropene, 1,1,2-trichloroethane, 2-hexanone, 1,2-dibromoethane, and styrene were non-detect, and the reporting limits were qualified estimated (UJ).

For a subset of samples, the percent difference for dichlorodifluoromethane (50), chloromethane (27), vinyl chloride (28), chloroethane (31), trichlorofluoromethane (23), carbon disulfide (21), and 1,1,2-trichloro-1,2,2-trifluoroethane (24) exceeded the QC limit of 20. The associated sample result for chloroethane was non-detect and was qualified previously under the initial calibration criteria. Associated sample results for dichlorodifluoromethane, chloromethane, vinyl chloride, chloroethane, trichlorofluoromethane, carbon disulfide, and 1,1,2-trichloro-1,2,2-trifluoroethane were non-detect, and the reporting limits were qualified estimated (UJ).

For a subset of samples, the percent difference for chloroethane (47) exceeded the QC limit of 20. The associated sample results for chloroethane were non-detect and were qualified previously under the initial calibration criteria.

### Laboratory Control Sample

**SDG B2618:** For a subset of samples, the LCS percent recovery of chloroethane (145) exceeded the QC limit of 130. Sample results for chloroethane were non-detect and no qualification action was required.

**SDG B2643:** For a subset of samples, the LCS percent recovery of chloroethane (145) exceeded the QC limit of 130. Sample results for chloroethane were non-detect and no qualification action was required.

### Tentatively Identified Compounds (TICs)

TICs were reported by the laboratory if detected in samples. TICs reported in associated blanks were rejected in the final data set. A summary of TICs detected in samples is presented on Table 3.

### 3.0 SVOCs

### Blanks

SDG B2618 and SDG B2643: Dimethylphthalate (200 and 210  $\mu$ g/kg) was reported in the method blanks. An action level was established at ten times the reported concentration in the blanks. Reported detections of dimethylphthalate in the samples were less than the action level and were qualified non-detect (U).

### Initial Calibration

**SDG B2618 and SDG B2643:** In the initial calibration the RSD for 2,4-dinitrophenol (56), 4,6-dinitro-2-methylphenol (41), and pentachlorophenol (19) exceeded the QC limit of 15. 2,4-Dinitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol were not detected in samples, and the reporting limits for these compounds were qualified estimated (UJ).

### Continuing Calibration

SDG B2618: In the continuing calibration the percent difference for 2,4-dinitrophenol (-22) exceeded the QC limit of 20. Sample results for 2,4-dinitrophenol were qualified previously under the initial calibration criteria.

**SDG B2618:** In the continuing calibration the percent difference for 2,4-dinitrophenol (-140), 4,6-dinitro-2-methylphenol (-61), and pentachlorophenol (-27) exceeded the QC limit of 20. Sample results for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol were qualified previously under the initial calibration criteria.

### Laboratory Control Sample

**SDG B2618:** The LCS percent recovery of benzaldehyde (11), 4-chloroaniline (44), and 3,3-dichlorobenzidine (22) were less than the lower QC limit of 50. Benzaldehyde, 4-chloroaniline, and 3,3-dichlorobenzidine were not detected in samples, and the reporting limits were qualified estimated (UJ).

### Matrix Spike/Matrix Spike Duplicate

**SDG B2618:** Sample LCPDI00600110XX was analyzed as an MS/MSD by the laboratory. The MS/MSD percent recoveries of benzaldehyde (13 and 13) and 4-chloroaniline (31 and 44) were less than the lower QC limit of 50. Results for benzaldehyde and 4-chloroaniline were qualified previously under the LCS criteria.

SDG B2643: Sample LCPDI01100110XX was analyzed as an MS/MSD by the laboratory. The MS/MSD percent recoveries of benzaldehyde (11 and 10) and 4-chloroaniline (47) were less than the lower QC limit of 50. The result for benzaldehyde was qualified previously under the LCS criteria. The result for 4-chloroaniline was non-detect and the reporting limit was qualified estimated (UJ).

### Tentatively Identified Compounds (TICs)

TICs were reported by the laboratory if detected in samples. TICs reported in associated blanks were rejected in the final data set. A summary of TICs detected in samples is presented on Table 3.

### 4.0 Pesticides

### Ouantitation

SDG B2643: The percent difference between the primary and confirmatory column results for 4,4-DDE in samples LCBKSS00300110XD (35) and LCBKSS00300110XX (43), and dieldrin in sample LCPD101100110XX (46) exceeded the QC limit of 25. The results for 4,4-DDE in samples LCBKSS00300110XD and LCBKSS00300110XX, and dieldrin in sample LCPD101100110XX were qualified estimated (J).

### Matrix Spike/Matrix Spike Duplicate

**SDG B2618:** Sample LCPDI00600110XX was analyzed as an MS/MSD by the laboratory. The MS/MSD relative percent difference (RPD) for methoxychlor (24) exceeded the laboratory limit of 20. The unspiked sample result for methoxychlor was qualified estimated (J).

### 5.0 PCBs

### Matrix Spike/Matrix Spike Duplicate

**SDG B2618:** Sample LCPDI00600110XX was analyzed as an MS/MSD by the laboratory. The MSD percent recovery of Aroclor 1260 (144) exceeded the upper QC limit of 129. Aroclor 1260 was not detected in the unspiked sample, and no further action was required.

### 6.0 Metals

### Blanks

SDG B2643: Aluminum, calcium, and iron were reported in the continuing calibration blanks. Action levels were established at five times the highest reported blank concentration for aluminum, calcium, and iron. Sample results for aluminum, calcium, and iron were greater than the action levels, and no further action was required.

### Serial Dilution

SDG B2643: The serial dilution percent difference for calcium (13), iron (14), magnesium (12), manganese (14), potassium (12), and zinc (13) exceeded the QC limit of 10. Sample results for calcium, iron, magnesium, manganese, potassium, and zinc were qualified estimated (J).

### **Laboratory Control Sample**

**SDG B2643:** The LCS percent recovery of aluminum (76), calcium (78), iron (78), mercury (73), potassium (67), selenium (74), and sodium (70), were less than the lower QC limit of 80. Sample results for aluminum, calcium, iron, mercury, potassium, selenium, and sodium were qualified estimated (J).

### Matrix Spike/Matrix Spike Duplicate

**SDG B2618:** The MS/MSD percent recoveries of aluminum (348 and 323), calcium (246 and 237), iron (402 and 371), magnesium (157 and 154), and manganese (207 and 195) exceeded the upper QC limit of 125. The unspiked sample concentrations of aluminum, calcium, iron, magnesium, and manganese were greater than four times the spike concentration, and no further action was required.

SDG B2643: The MS percent recovery of barium (147) exceeded the upper QC limit of 125. Sample results for barium were qualified estimated (J) and were potentially biased high.

### Field Duplicate

**SDG B2643:** The field duplicate RPD for magnesium (39) and calcium (144) exceeded the QC limit of 35. Sample results for magnesium and calcium were qualified estimated (J).

### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

Data Validator: Wolfgang D. Calicchio

Project No. 3612102148

Date: August 6, 2010

Reviewed by Chris Ricardi, NRCC-EAC

Date: August 16, 2010

## TABLE 1 - DUSR - LOOHNS CORNING SITE DATA USABILITY SUMMARY REPORT 2010 REMEDIAL INVESTIGATION SAMPLING PROGRAM LOOHNS CORNING SITE CORNING, NEW YORK

				Class	VOCs	SVOCs	PEST	PCB	Metals
				Method	8260B	8270	8081	8082	6010B/7470A
				Fraction	N	N	. N	N	N
SDG	Sample ID	Lab ID	Sample Date	QC Code					
B2618	LCPDI00500510XX	B2618-01	6/8/2010	FS	X				
B2618	LCPDI00101110XX	B2618-02	6/8/2010	FS	X				•
B2618	LCPDI00101110XD	B2618-03	6/8/2010	FD	X				
B2618	LCSS00100110XX	B2618-04	6/8/2010	FS		X	X	X	X
B2618	LCPDI00600510XX	B2618-05	6/8/2010	FS .	X				
B2618	LCPDI00601010XX	B2618-06	6/8/2010	FS	X				
B2618	LCPDI00200810XX	B2618-07	6/8/2010	FS	X				
B2618	LCPDI00700510XX	B2618-08	6/8/2010	FS	X				
B2618	LCPDI00701010XX	B2618-09	6/8/2010	FS	X				
B2618	LCPDI01200510XX	B2618-10	6/8/2010	FS	X				
B2618	LCPDI01201010XX	B2618-11	6/8/2010	FS	X				
B2618	LCPDI01201910XX	B2618-12	6/8/2010	FS	X				
B2618	LCPDI01300510XX	B2618-13	6/8/2010	FS	X		1		
B2618	LCPDI01301010XX	B2618-14	6/8/2010	FS	X		:		
B2618	LCPDI00800310XX	B2618-15	6/8/2010	FS	X				
B2618	LCPDI00801510XX	B2618-16	6/8/2010	FS	X				
B2618	LCPDI00600110XX	B2618-17	6/8/2010	FS		X	X	X	X
B2618	TRIPBLANK-1	B2618-18	6/8/2010	TB	X				
B2643	LCPDI00301310XX	B2643-01	6/9/2010	FS	X				
B2643	LCPDI00900110XX	B2643-02	6/9/2010	FS	X				
B2643	LCPDI00901010XX	B2643-03	6/9/2010	FS	X		1		
B2643	LCPDI00400510XX	B2643-04	6/9/2010	FS	X				
B2643	LCPDI00401010XX	B2643-05	6/9/2010	FS	X				
B2643	LCPDI01100110XX	B2643-06	6/9/2010	FS		X	X	Х	X
B2643	LCPDI01100210XX	B2643-07	6/9/2010	FS	Х	,			
B2643	LCGW01502010XX	B2643-10	6/9/2010	FS	X				
B2643	LCGW01402010XX	B2643-11	6/9/2010	FS	X		-		
B2643	LCGW01302010XX	B2643-12	6/9/2010	FS	X				
B2643	LCBKSS00100110XX	B2643-13	6/9/2010	FS		X	X	X	X
B2643	LCBKSS00200110XX	B2643-14	6/9/2010	FS		·X	X	X	X
B2643	LCBKSS00300110XX	B2643-15	6/9/2010	FS		X	X	X	X
B2643	LCBKSS00300110XD	B2643-16	6/9/2010	FD		X	X	X	X
B2643	LCPDI01000210XX	B2643-17	6/9/2010	FS	X		1		
B2643	LCPDI01400210XX	B2643-18	6/9/2010	FS	Х				
B2643	TRIPBLANK	B2643-20	6/2/2010	TB	X				

# TABLE 2 - RESULTS SUMMARY DATA USABILITY SUMMARY REPORT JUNE 2010 SOIL SAMPLING LOOHNS CORNING SITE CORNING, NEW YORK

			<u></u>		_	_																																_
B2618 PDI-006	6/8/2010 12:55 LCPDI00601010XX	FS	Result Qualifier	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	25 U	25 U	25 U	4.9 U	25 U	4.9 U	4.9 U	4.9 U	0.4 0.5	4.9 U	4.9 U	4.9 U	4.9 U	4.9 UJ	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 UJ	) i
B2618 PDI-006	6/8/2010 12:45 LCPDI00600510XX	FS	Result Qualifier	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	24 U	24 U	24 U	4.7 U	24 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 UJ	ţ.
B2618 PDI-001	6/8/2010 11:45 LCPDI00101110XD	Ð	Result Qualifier	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 ∪	4.8 U	24 U	24 U	24 U	4.8 U	24 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ	J. 0.4
B2618 PDI-001	6/8/2010 11:45 LCPDI00101110XX	FS	Result Qualifier	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 Ü	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	21 U	21 0	21 U	4.1 U	21 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 UJ	4.10	4.1 U	4.1 U	4.1 U	4.1 U	4.1 UJ	4 5 
B2618 PDI-005	6/8/2010 11:15	FS	Result Qualifier	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	23 U	23.U	23 N	4.7 U	23 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 UJ	4.7 U
ry Group	Sample Date	Qc Code	Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ng/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/kg
Sample Delivery Group	Sam		Analysis Param Name	m		SW8260B 1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260B 1,1,2-Trichloroethane	SW8260B 1,1-Dichloroethane		SW8260B 1,2,4-Trichlorobenzene			SW8260B 1,2-Dichlorobenzene	SW8260B 1,2-Dichloroethane	SW8260B 1,2-Dichloropropane	SW8260B 1,3-Dichlorobenzene	SW8260B 1,4-Dichlorobenzene		SW8260B[2-Hexanone	SW8260B 4-Methyl-2-pentanone	SW8260B Acetic acid, methyl ester	SW8260B Acetone	SW8260B Benzene	SW8260B Bromodichloromethane	SW8260B Bromoform	SW8260B Bromomethane	SW8260B Carbon disulfide	SW8260B Carbon tetrachloride	SW8260B Chlorobenzene	SW8260B Chlorodibromomethane	SW8260B Chloroethane	SW8260B Chloroform	SW8260B Chloromethane	SW8260B Cis-1,2-Dichloroethene	SW8260B cis-1,3-Dichloropropene	SW8260B Cyclohexane	SW8260B Dichlorodifluoromethane	SW8260B Ethyl benzene

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

Date: 8/13/10

TABLE 2 - RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
JUNE 2010 SOIL SAMPLING
LOOHNS CORNING SITE
CORNING, NEW YORK

Sample De	Samble Delivery Group	B2618	B2618	B2618	B2618	B2618	
	Location	PDI-005	PDI-001	PDI-001	PDI-006	PDI-006	
	Sample Date	6/8/2010 11:15	6/8/2010 11:45	6/8/2010 11:45	6/8/2010 12:45	6/8/2010 12:55	
	Sample ID	LCPD100500510XX	LCPDI00101110XX	LCPDI00101110XD	LCPD100600510XX	LCPDI00601010XX	
	Qc Code	FS	FS	Ð	FS	FS	
Analysis Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	
SW8260B Isopropylbenzene	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Methyl cyclohexane	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Methyl Tertbutyl Ether	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Methylene chloride	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Styrene	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Tetrachloroethene	ug/Kg	7	7.3	6.2	26	24	
SW8260B Toluene	ug/Kg	4.7 U	1.2 J	4.8 U	4.7 U	4.9 U	
SW8260B trans-1,2-Dichloroethene	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B trans-1,3-Dichloropropene	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Trichloroethene	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Trichlorofluoromethane	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Vinvl chloride	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
SW8260B Xvlene, m/p	ug/Kg	9.3 U	8.2 U	9.5 U	9.4 U	0.8 ∪	
SW8260B Xylene, o	ug/Kg	4.7 U	4.1 U	4.8 U	4.7 U	4.9 U	
-	•						

Notes:

μg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram

Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Sample Delivery Group	ery Group	B2618 PDI-002	B2618 PDI-007	B2618 PDI-007	B2618 PDI-012	B2618 PDI-012
San	Sample Date	6/8/2010 13:30 LCPD100200810XX	6/8/2010 13:45 LCPDI00700510XX	6/8/2010 13:55 LCPDI00701010XX	6/8/2010 14:55 LCPDI01200510XX	6/8/2010 14:55 LCPDI01201010XX
	Qc Code	FS	FS	FS	FS	FS
Analysis Param Name	Units	Result Qualifier				
SW8260B 1,1,1-Trichloroethane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 1,1,2,2-Tetrachloroethane	ug/Kg	5.3 U	4.9 Ü	4.3 U	4.5 U	4.4 U
SW8260B 1,1,2-Trichloro-1,2,2-Triffuoroethane	ug/Kg	5.3 UJ	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 1,1,2-Trichloroethane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 1,1-Dichloroethane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B 1,1-Dichloroethene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B 1,2,4-Trichlorobenzene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 1,2-Dibromo-3-chloropropane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B 1,2-Dibromoethane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B 1,2-Dichlorobenzene	ug/Kg	5.3 U	4.9 U	4.3 Ú	4.5 U	4.4 U
SW8260B 1,2-Dichloroethane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B 1,2-Dichloropropane	ug/Kg	5.3 U	4.9 Ü	4.3 U	4.5 U	4.4 U
SW8260B 1,3-Dichlorobenzene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 1,4-Dichlorobenzene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B 2-Butanone	ug/Kg	26 U	25 U	22 U	22 U	22 U
SW8260B 2-Hexanone	ug/Kg	26 U	25 U	22 U	22 U	22 U
SW8260B 4-Methyl-2-pentanone	ug/Kg	26 U	25 U	22 U	22 U	22 U
SW8260B Acetic acid, methyl ester	ug/Kg	5.3 U	2.8 J	8.7	1.9 J	_
SW8260B Acetone	ug/Kg	.26 UJ	25 U	26 U	22 U	22 U
	ug/Kg		4.9 U	4.3 U	4.5 U	4.4 U
	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Bromomethane	ng/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Carbon disulfide	ug/Kg		4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Carbon tetrachloride	ng/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Chlorobenzene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Chlorodibromomethane	ug/Kg		4.9 U	4.3 U	4.5 U	
SW8260B Chloroethane	ug/Kg	5.3 UJ	4.9 UJ	4.3 UJ	4.5 UJ	4.4 UJ
SW8260B Chloroform	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Chloromethane	ug/Kg	5.3 UJ	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Cis-1,2-Dichloroethene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B cis-1,3-Dichloropropene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Cyclohexane	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
	ug/Kg	5.3 UJ	4.9 UJ	4.3 UJ	4.5 UJ	4.4 UJ
SW8260B Ethyl benzene	ng/Kg	5.3 U	4.9 U	4.3 ∪	4.5 U	4.4 U

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

Date: 8/13/10

# TABLE 2 - RESULTS SUMMARY DATA USABILITY SUMMARY REPORT JUNE 2010 SOIL SAMPLING LOOHNS CORNING SITE CORNING, NEW YORK

Sample De	Sample Delivery Group Location Sample Date	B2618 PDI-002 6/8/2010 13:30	B2618 PDI-007 6/8/2010 13:45	B2618 PDI-007 6/8/2010 13:55	B2618 PDI-012 6/8/2010 14:55	B2618 PDI-012 6/8/2010 14:55
	Sample ID	LCPD100200810XX FS	LCPDI00700510XX FS	LCPD100701010XX FS	LCPDI01200510XX ES	LCPDI01201010XX FS
Analysis Param Name	Units	Result Qualifier				
SW8260B Isopropylbenzene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Methyl cyclohexane	ug/Kg	5.3 ∪	4.9 U	4.3 U	4.5 U	4.4 ∪
SW8260B Methyl Tertbutyl Ether	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Methylene chloride	ug/Kg	5.6 U	4.9 U	4.4 U	4.5 U	5.5 U
SW8260B Styrene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Tetrachloroethene	ug/Kg	39	15	17	14	27
SW8260B Toluene	ug/Kg	5.3 U	4.9 U	L L	4.5 U	4.4 U
SW8260B trans-1,2-Dichloroethene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B trans-1,3-Dichloropropene	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Trichloroethene	ug/Kg	5.3 U	4.9 U	4.3 ∪	4.5 U	4.4 U
SW8260B Trichlorofluoromethane	ug/Kg	5.3 UJ	4.9 U	4.3 ∪	4.5 U	4.4 U
SW8260B Vinyl chloride	ug/Kg	5.3 UJ	4.9 U	4.3 U	4.5 U	4.4 U
SW8260B Xylene, m/p	ug/Kg	11 U	9.8 U	8.7 U	n 6	8.8 U
SW8260B Xylene, o	ug/Kg	5.3 U	4.9 U	4.3 U	4.5 U	4.4 ∪

Notes:

μg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram

mg/k.g = millig Qualifiers U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

B2618 PDI-008	6/8/2010 16:00 LCPDI00801510XX	FS	Result Qualifier	4.6 U	4.6 U	4.6 UJ	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	23 U	23 U	23 U	4.2 J	23 UJ	4.6 U	4.6 U	4.6 U		4.6 UJ	4.6 U	4.6 U	4.6 U	4.6 UJ	4.6 U	4.6 UJ	4.6 U	4.6 U	4.6 U	4.6 UJ	4.6 U
B2618 PDI-008	6/8/2010 16:00 LCPDI00800310XX	FS.	Result Qualifier	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	27	5.1 U	5.1 U	5.1 U	12	25 U	25 U	25 U	5.1 U	25 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 ∪	5.1 UJ	5.1 U	5.1 U	190	5.1 U	5.1 U	5.1 UJ	5.1 0
B2618 PDI-013	6/8/2010 15:30 LCPDI01301010XX	FS	Result Qualifier	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 ∪	4.4 U	4.4 ∪	22 U	. 75 O	22 U	4.4 U	22 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 UJ	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 UJ	4.4 U
B2618 PDI-013	6/8/2010 15:30 LCPDI01300510XX	FS	Result Qualifier	4.5 U	4.5 U	4.5 UJ	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	1.2 J	4.5 U	4.5 U	4.5 U	4.5 U	22 U	22 U	22 U	4.5 U	22 UJ	4.5 U	4.5 U	4.5 U		4.5 UJ	4.5 U	4.5 U	4.5 U	4.5 UJ	4.5 U	4.5 UJ	1.6 J	4.5 U	4.5 U	4.5 UJ	4.5 U
B2618 PDI-012	6/8/2010 14:55 LCPDI01201910XX	FS	Result Qualifier	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 Ü	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	20 U	20 U	20 U	4.1 U	25 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 UJ	4.1 U	4.1 U	4.1 U	4.1 U	2.5 J	4.1 UJ	4.1 0
ry Group	Sample Date Sample ID	Qc Code	Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ng/Kg
Sample Delivery Group Location	San		Analysis Param Name	SW8260B[1,1,1-Trichloroethane	SW8260B 1,1,2,2-Tetrachloroethane	SW8260B 1,1,2-Trichloro-1,2,2-Trifluoroethane	SW8260B 1,1,2-Trichloroethane	SW8260B 1,1-Dichloroethane	SW8260B 1,1-Dichloroethene	SW8260B 1,2,4-Trichlorobenzene	SW8260B 1,2-Dibromo-3-chloropropane	SW8260B 1,2-Dibromoethane	SW8260B 1,2-Dichlorobenzene	SW8260B 1,2-Dichloroethane	SW8260B 1,2-Dichloropropane	SW8260B 1,3-Dichlorobenzene	SW8260B 1,4-Dichlorobenzene	SW8260B 2-Butanone	SW8260B 2-Hexanone	SW8260B 4-Methyl-2-pentanone	SW8260B Acetic acid, methyl ester	SW8260B Acetone	SW8260B Benzene	SW8260B Bromodichloromethane		SW8260B Bromomethane	SW8260B Carbon disulfide	SW8260B Carbon tetrachloride	SW8260B Chlorobenzene	SW8260B Chlorodibromomethane	SW8260B Chloroethane	SW8260B Chloroform	SW8260B Chloromethane	SW8260B Cis-1,2-Dichloroethene	SW8260B cis-1,3-Dichloropropene	SW8260B Cyclohexane	SW8260B Dichlorodifluoromethane	SVV8Z60B Etnyl benzene

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Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

Sample Del	Sample Delivery Group	B2618	B2618	B2618	B2618	B2618
	Location	PDI-012	PDI-013	PDI-013	PDI-008	PDI-008
	Sample Date	6/8/2010 14:55	6/8/2010 15:30	6/8/2010 15:30	6/8/2010 16:00	6/8/2010 16:00
	Sample ID	LCPDI01201910XX	LCPDI01300510XX	LCPDI01301010XX	LCPDI00800310XX	LCPDI00801510XX
	Qc Code	FS	FS	FS	FS	FS.
Analysis Param Name	Units	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
SW8260B Isopropylbenzene	ug/Kg	4.1 U	4.5 U	4.4 U	5.1 U	4.6 U
SW8260B Methyl cyclohexane	ug/Kg	2.8 J	4.5 U	4.4 U	5.1 U	4.6 U
SW8260B Methyl Tertbutyl Ether	ug/Kg	4.1 U	4.5 U	4.4 U	5.1 U	4.6 U
SW8260B Methylene chloride	ug/Kg	5.3 U	4.5 U	4.4 ∪	7.7 U	5.1 U
SW8260B Styrene	ug/Kg	4.1 U	4.5 U	4.4 U 4.4	5.1 U	4.6 U
SW8260B Tetrachloroethene	ug/Kg	3.1 J	1200 D	35	49000 D	4.9
SW8260B Toluene	ug/Kg	2.2 J	0.91 J	4.4 U	5.1 U	1.4 J
SW8260B trans-1,2-Dichloroethene	ug/Kg	4.1 U	4.5 U	4.4 U	5.1 U	4.6 U
SW8260B trans-1,3-Dichloropropene	ug/Kg	4.1 0	4.5 U	4.4 U	5.1 U	4.6 U
SW8260B Trichloroethene	ug/Kg	4.1 U	4.5 U	4.4 U	180	4.6 U
SW8260B Trichlorofluoromethane	ug/Kg	4.1 U	4.5 UJ	4.4 U	5.1 U	4.6 UJ
SW8260B Vinyl chloride	ug/Kg	4.1 U	4.5 UJ	4.4 U	5.1 U	4.6 UJ
SW8260B Xylene, m/p	ug/Kg	1.5 J	8.9 U	8.8 ∪	10 U	9.1 U
SW8260B Xylene, o	ug/Kg	4.1 0	4.5 U	4.4 U	5.1 U	4.6 U

Notes:

μg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram

mg/k.g = milligran: Qualifiers U = not detected at the reporting limit

J = estimated concentrationQC Code

FS = Field Sample FD = Field Duplicate

TB = Trip Blank

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

TABLE 2 - RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
JUNE 2010 SOIL SAMPLING
LOOHNS CORNING SITE
CORNING, NEW YORK

D2618	·.	Date 6/8/2010 17:45	le ID TRIPBLANK-1	Qc Code TB	Units Result Qualifier		ug/Kg									19/Kg 5 U					<del></del>		ug/Kg 5 U		ug/kg 5 0		ug/Kg 5 U	ug/Kg	ug/Kg 5 U	ug/Kg 5 U				ug/Kg 5 U	ng/Kg g U	n c   by/bn
O movilled classes	Sample Delivery Group	Sample Date	Sample ID	OoO	Analysis Param Name Un	1,1,2,2-Tetrachloroethane	SW8260B 1,1,2-Trichloro-1,2,2-Trifluoroethane ug	1, 1,z-tiichlorethane	1,1-Dichloroethene	 1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Uichlorobenzene	1,4-Dichlorobenzene	Z-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetic acid, methyl ester	SW8260B Acetone ug	Benzene	Bromodichloromethane	Bromoform	Bromomethane	SW8Z80B Carbon distance ag	Chlorobenzene	SW8260B Chlorodibromomethane ug	SW8260B Chloroethane ug	SW8260B Chloroform ug	SW8260B Chloromethane ug	Cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dichlorodifluoromethane	SW8260B Ethyl benzene ug

Date: 8/13/10

## DATA USABILITY SUMMARY REPORT TABLE 2 - RESULTS SUMMARY JUNE 2010 SOIL SAMPLING LOOHNS CORNING SITE CORNING, NEW YORK

		17:45	NK-1		Qualifier	<b>_</b>		_ _		<u> </u>			 	 n		 		_ _	_ _ _
B2618	၁၀	6/8/2010 17:45	TRIPBLANK-1	TB	Result	9	ъ	5	8.5	2	2	5	5	5	5	5	2	10	- 2
very Group	Location	Sample Date	Sample ID	Qc Code	Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg
Sample Delivery Group		Ø			Analysis Param Name	SW8260B Isopropylbenzene	SW8260B Methyl cyclohexane	SW8260B Methyl Tertbutyl Ether	SW8260B   Methylene chloride	SW8260B Styrene	SW8260B Tetrachloroethene	SW8260B Toluene	SW8260B trans-1,2-Dichloroethene	SW8260B trans-1,3-Dichloropropene	SW8260B Trichloroethene	SW8260B Trichlorofluoromethane	SW8260B Vinyl chloride	SW8260B Xylene, m/p	SW8260B Xylene, o

Notes:

 $\mu g/Kg = micorgrams$  per kilogram mg/Kg = milligrams per kilogram

Qualifiers

U =not detected at the reporting limit J = estimated concentration

QC Code

FD = Field Duplicate FS = Field Sample

TB = Trip Blank

B2643	PDI-004	6/9/2010 11:05	FS	<sub>3</sub> /kg	Result Qualifier	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	37 U	37 U	37 U	7.6	23 J	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 UJ	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 UJ	
B2643	PDI-004	6/9/2010 10:55	FS	ug/kg	Result Qualifier	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 Ü	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	23 U	23 U	23 N	4.5 U	16 J	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 UJ	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 UJ	
B2643	PD-1009	6/9/2010 9:20	FS	ug/kg	Result Qualifier	4.5 U	4.5 U	4.5 U	4.5 U	7 U 3.4	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 ∪	4.5 U	4.5 U	4.5 U	23 U	23 U	23 U	2.3 J	12 J	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 UJ	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 UJ	
B2643	PDI-009	6/9/2010 9:20	FS	ug/kg	Result Qualifier	6.8 U	0.8 ∪	6.8 U	6.8 U	6.8 U	0.8 €	0.8.9	6.8 U	0.8 U	5.2 J	0.8 U	0.8 U	0.8 U	2.3 J	34 U	34 U	34 U	0.8 U	12 J	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	6.8 U	6.8 UJ	6.8 U	6.8 U	2.8 J	6.8 U	6.8 U	6.8 UJ	
B2643	PDI-003	6/9/2010 8:30	LCFDI00301310AA FS	ug/kg	Result Qualifier	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	28 U	. 28 U	28 Ú	3.2 J	28 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 UJ	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 UJ	
Sample Delivery Group	Location	Sample Date	Sample ID	Units	Analysis Param Name	lm		. ~		_	٠.	~	~	•	SW8260B 1,2-Dichlorobenzene	•		~	~	SW8260B 2-Butanone	SW8260B 2-Hexanone			SW8260B Acetone		SW8260B Bromodichloromethane	SW8260B Bromoform		SW8260B Carbon disulfide	SW8260B Carbon tetrachloride							-			

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Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

Sample Delivery Group	B2643 PDI-003	B2643 PDI-009	B2643 PDI-009	B2643 PDI-004	B2643 PDI-004
Sample Date	6/9/2010 8:30	6/9/2010 9:20	6/9/2010 9:20	6/9/2010 10:55	6/9/2010 11:05
Sample ID	LCPD100301310XX	LCPDI00900110XX	LCPD100901010XX	LCPDI00400510XX	LCPDI00401010XX
Qc Code	FS	FS	FS	FS	FS
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Analysis Param Name	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier	Result Qualifier
SW8260B Ethyl benzene	5.7 U	0.8.0	4.5 U	4.5 ∪	7.4 U
SW8260B Isopropylbenzene	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B Methyl cyclohexane	5.7 U	6.8 U	4.5 U	2.7 J	7.4 U
SW8260B Methyl Tertbutyl Ether	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B Methylene chloride	6.7	4.2 J	4.6	3.1 J	7.8
SW8260B Styrene	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B Tetrachloroethene	2.6 J	63000 D	16	18	4
SW8260B Toluene	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B trans-1,2-Dichloroethene	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B trans-1,3-Dichloropropene	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B Trichloroethene	5.7 U	9.3	4.5 U	4.5 U	7.4 U
SW8260B Trichlorofluoromethane	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
SW8260B Vinyl chloride	5.7 U	6.8 ∪	4.5 U	4.5 U	7.4 U
SW8260B Xvlene m/b	11 0	14 U	9.1 U	9.1 U	15 U
SW8260B Xylene, o	5.7 U	6.8 U	4.5 U	4.5 U	7.4 U
•					

Notes:

μg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram Qualifiers U =not detected at the reporting limit J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Sample Delivery Group	B2643	B2643	B2643 GW-014	B2643 GW-013	B2643 PDI-010
Sample Date	6/9/2010 14:05	6/9/2010 14:20 I CGW01502010XX	6/9/2010 15:15 LCGW01402010XX	6/9/2010 15:30 LCGW01302010XX	6/9/2010 16:50 LCPDI01000210XX
Oc Code		FS	FS	FS.	SE
Units	J/kg	/gn	ug/l	ug/l	ug/kg Result Qualifier
Analysis Param Name	Result Qualifier	Kesult Qualifier	Aesult Qualifica	-	4.8
SW8260B 1,1,1-Trichloroethane	7.4 O :	) <u>-</u>	<del>-</del>		
SW8260B 1,1,2,2-Tetrachloroethane	O 1.4.	) = - •	) = - •	) = - <del>-</del>	
ź.,	U 1.4	) = - v	) =	- <del>-</del>	0 8 4
	)	) <del>-</del> 7	) = - <del>*</del>	) <u>-</u>	0 8:4 0 8:4
$\overline{}$	0 1.4	- ·	) =	) )	4.8 U
4-	0 - 4	- <del>-</del> -	) ) )	1 C	4.8 U
SW8260B 1,2,4-1 richloropenzerie	0 1.4	0 0	10	U L	4.8 U
	410	10	D L	1 U	4.8 U
	4.10	10	J C	חר	4.8 U
_	4.1 U	10	10	) )	0 8.4
_	4.1 U	D -	D :	) )	0 8.4
$\overline{}$	4.1 U	ח :	) : -	7 7	φ. 4. Ο ο ο
SW8260B 1,4-Dichlorobenzene	4.1 U	) - '	) :  - 	) <u>-</u> u	7.0 0
SW8260B 2-Butanone	20 U	O :	) <u> </u>	) = C	24 1
	70 C	ວ <u>:</u>	ם בי	) <u>r</u> c	24 O
	700	0 =	7 0	0 7	4.8 U
	) :- -:	o ⊃	5 0	5 U	24 U
SW8ZOUB Acetorie	0 1.4	5 2	10	10	4.8 U
	4.1 U	10	1 0	) 	4.8 U
	4.1 U	10	U.	) :	4.8 U
	4.1 U	) )	0 ;	2 5	2. 4. 2. 0 0 1
SW8260B Carbon disulfide	4.1 UJ	<b>-</b> -	) - •	O =	
	- 4 ·	) = - ·	- <del>-</del>		4.8 U
		) = - F	) <del>-</del>	10	4.8 U
SW8260B Chlorodibromomethane	1; v			1 U	4.8 UJ
	4.1 O.	2	- <del>-</del> -	10	4.8 U
SW8Z6UB CHIOTOTOTH	5 1.1	) T	10	10	4.8 U
		10	10	J U	4.8 U
SW8ZOOD CIS-1,Z-Dichloropropene	4.1 U	10	10	10	4.8 U
SW8260B Cis-1,3-District options:	4.1 U	4.8	1 O	J C	4.8 U
SW8260B Dichlorodifluoromethane	4.1 UJ	1 UJ	1 UJ	100	4.8 UJ
	•				Created by: RI

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

B2643 PDI-010 6/9/2010 16:50 LCPDI01000210XX FS	Result Qualifier	4.8 U	4.8 U	ر 4 ا	4.8 U	. 48 [	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	9.6 0	4.8 U
B2643 GW-013 6/9/2010 15:30 LCGW01302010XX FS	Result Qualifier	. T	 	1 U	) )	0 1.00	2 7	U :	) )	<b>-</b>	) 	1.2 J	0.51 J
B2643 GW-014 6/9/2010 15:15 LCGW01402010XX FS	Result Qualifier	, T	0.76 J 1 U	1 U	1 C	1.2	1 U	10	) 	) )	<u> </u>	2 U	
B2643 GW-015 6/9/2010 14:20 LCGW01502010XX FS	Result Qualifier	0 L	1.2 1 U	10	10	د. ص ه	1 U	10	10	) )	10	2.9	1.2
B2643 PDI-011 6/9/2010 14:05 LCPDI01100210XX FS	Result Qualifier	4.1 U 1.3	0 1.4 U 1.4	3 J	4.1 U	96	4.1 U 1.4	4.1 U	4.1 U	4.1 UJ	4.1 UJ	8.1 U	4.1 U
Sample Delivery Group Location Sample Date Sample ID Qc Code	Analysis Param Name	SW8260B Luiyi berizerle SW8260B Isopropylbenzene	SW8260B Methyl cyclohexane SW8260B Methyl Terthiltyl Ether	SW8260B Methylene chloride	SW8260B Styrene	SW8260B Tetrachloroethene	SW8260B trans-1.2-Dichloroethene	SW8260B trans-1,3-Dichloropropene	SW8260B Trichloroethene	SW8260B Trichlorofluoromethane	SW8260B Vinyl chloride	SW8260B Xylene, m/p	SW8260B Xylene, o

Notes:

μg/Kg = micorgrams per kilogram

mg/Kg = milligrams per kilogram

U = not detected at the reporting limitQualifiers

J = estimated concentration QC Code

FD = Field Duplicate FS = Field Sample

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

TABLE 2 - RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
JUNE 2010 SOIL SAMPLING
LOOHNS CORNING SITE
CORNING, NEW YORK

•				•				
200 200 10 1 10 1 10 1 10 1 10 1	Result Qualifier		 	·		n n n n n n υ υ υ τ υ	) ) )	 
B2643 QC 6/2/2010 10:30 TRIPBLANK TB ug/I	Result Qualifier		 	 	2 2 2 2		)	
B2643 PDI-014 6/9/2010 16:05 LCPDI01400210XX FS ug/kg	Result Qualifier 4.2 U	4 4 4 2 2 4 0 0 0	4.2 U	4.2 U 4.2 U 0.79 J	24444 2444 0444		2 4 4 4 4 4 - 4 4 4 4 4 - 0 0 0 0 0 0	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sample Delivery Group Location Sample Date Sample ID Qc Code	ਯੂ  ←, ⋅	SW8260B 1,1,2,2-Tetrachloroethane SW8260B 1,1,2-Trichloro-1,2,2-Trifluoroethane SW8260B 1 1,2-Trichloroethane		~ ~ ~	SW8260B 1,2-Dichloroethane SW8260B 1,2-Dichloropropane SW8260B 1,3-Dichlorobenzene SW8260B 1 4-Dichlorobenzene		SW8260B Benzene SW8260B Bromodichloromethane SW8260B Bromoform SW8260B Bromomethane SW8260B Carbon disulfide	

Sample Delivery Group	B2643	B2643	B2643
Location	PDI-014	UC 617 170 10:30	AC 6/2/2010 10:30
Sample Date Sample ID	LCPDI01400210XX	TRIPBLANK	TRIPBLANK
Oc Code	FS	TB	TB
Units	. ug/kg	l/gu	l/bn
Analysis Param Name	Result Qualifier	Result Qualifier	Result Qualifier
SW8260B Ethyl benzene	4.2 U	1 U	. 1 U
SW8260B Isopropylbenzene	4.2 U		
SW8260B Methyl cyclohexane	4.2 U	) )	10
SW8260B Methyl Tertbutyl Ether	4.2 U	) -	٦ ر
SW8260B Methylene chloride	4.5	J U	) )
SW8260B Styrene	4.2 U	10	10
SW8260B Tetrachloroethene	8000 D	J U	_ 
SW8260B Toluene	4.2 U	1 U	) )
SW8260B trans-1,2-Dichloroethene	4,2 U	10	
SW8260B trans-1,3-Dichloropropene	4.2 U	1 0	<b>-</b>
SW8260B Trichloroethene	5.1	1 U	_ 
SW8260B Trichlorofluoromethane	4.2 U	1 U	
SW8260B Vinyl chloride	4.2 U	1 U	) )
SW8260B Xylene, m/p	8.4 U	2 U	2 N
SW8260B Xylene, o	4.2 U	J C	J C

Notes:

 $\mu g/Kg = micorgrams$  per kilogram mg/Kg = milligrams per kilogram

Qualifiers

U = not detected at the reporting limit J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

,	Sample I	Delivery Group	B2618	B2618
		Location	SS-001	PDI-006
	•	Sample Date	6/8/2010 10:30	6/8/2010 12:45
		Sample ID	LCSS00100110XX	LCPDI00600110XX
		Qc Code		FS
Analysis	Param Name	Units	Result Qualifier	Result Qualifier
	2,4,5-Trichlorophenol	ug/Kg	380 U	380 U
SW8270	2,4,6-Trichlorophenol	ug/Kg	380 U	380 U
SW8270	2,4-Dichlorophenol	ug/Kg	380 U	380 U
SW8270	2,4-Dimethylphenol	ug/Kg	380 U	380 U
SW8270	2,4-Dinitrophenol	ug/Kg	380 UJ	380 UJ
SW8270	2,4-Dinitrotoluene	ug/Kg	380 U	380 U .
SW8270	2,6-Dinitrotoluene	ug/Kg	380 U	380 U
SW8270	2-Chloronaphthalene	ug/Kg	380 U	380 U
SW8270	2-Chlorophenol	ug/Kg	380 U	380 U
SW8270	2-Methylnaphthalene	ug/Kg	380 U	380 U
SW8270	2-Methylphenol	ug/Kg	380 U	380 U
SW8270	2-Nitroaniline	ug/Kg	380 U	380 U
SW8270	2-Nitrophenol	ug/Kg	380 U	380 U
SW8270	3,3`-Dichlorobenzidine	ug/Kg	380 UJ	380 UJ
SW8270	3-Nitroaniline	ug/Kg	380 U	380 U
SW8270	4,6-Dinitro-2-methylphenol	ug/Kg	380 UJ	380 UJ
SW8270	4-Bromophenyl phenyl ether	ug/Kg	380 U	380 U
SW8270	4-Chloro-3-methylphenol	ug/Kg	380 U	380 U
SW8270	4-Chloroaniline	ug/Kg	380 UJ	380 UJ
SW8270	4-Chlorophenyl phenyl ether	ug/Kg	380 U	380 U
SW8270	4-Nitroaniline	ug/Kg	380 U	380 U
SW8270	4-Nitrophenol	ug/Kg	380 U	380 U
SW8270	Acenaphthene	ug/Kg	380 U	380 U
SW8270	Acenaphthylene	ug/Kg	380 U	380 U
SW8270	Acetophenone	ug/Kg	380 U	380 U
SW8270	Anthracene	ug/Kg	380 U	380 U
SW8270	Atrazine	ug/Kg	380 U	380 U 380 UJ
SW8270	Benzaldehyde	ug/Kg	380 UJ	380 U
SW8270	Benzo(a)anthracene	ug/Kg	54 J 55 J	380 U
SW8270	Benzo(a)pyrene	ug/Kg	3	380 U
SW8270	Benzo(b)fluoranthene	ug/Kg	87 J	380 U
SW8270	Benzo(ghi)perylene	ug/Kg	93 J	380 U
SW8270	Benzo(k)fluoranthene	ug/Kg	380 U	380 U
SW8270	Biphenyl	ug/Kg	380 U 380 U	380 U
SW8270	Bis(2-Chloroethoxy)methane	ug/Kg		380 U
SW8270	Bis(2-Chloroethyl)ether	ug/Kg	380 U 380 U	380 U
SW8270	Bis(2-Chloroisopropyl)ether	ug/Kg		130 J
SW8270	Bis(2-Ethylhexyl)phthalate	ug/Kg	1800 130 J	380 U
SW8270	Butylbenzylphthalate	ug/Kg		380 U
SW8270	Caprolactum	ug/Kg	380 U	380 U
SW8270	Carbazole	ug/Kg	380 U	380 U
SW8270	Chrysene	ug/Kg	80 J 63 J	380 U
SW8270	Di-n-butylphthalate	ug/Kg	55 J	380 U
SW8270	Di-n-octylphthalate	ug/Kg	380 U	380 U
SW8270	Dibenz(a,h)anthracene	ug/Kg ug/Kg	380 U	380 U
SW8270	Dibenzofuran Diothylphthalate	ug/Kg ug/Kg	380 U	380 U
SW8270	Diethylphthalate	ug/Kg ug/Kg	450 U	460 U
SW8270	Dimethylphthalate Fluoranthene	ug/Kg	160 J	380 U
SW8270	Fluorene	ug/Kg	380 U	380 U
SW8270	li inotette	l ug/Ng	1 330 0	1 000 0

Created by: BJS
Date: 8/05/10
Reviewed by: WDC
Date: 8/13/10

	Sample Delive	1	B26	-	B261	
		Location			PDI-0	
	Sai	mple Date	6/8/2010	10:30	6/8/2010	12:45
	•	Sample ID	LCSS0010	0110XX	LCPDI0060	00110XX
		Qc Code	FS	;	FS	;
Analysis_	Param Name	Units	Result	Qualifier		Qualifier
SW8270	Hexachlorobenzene	ug/Kg	380	U	380	U
SW8270	Hexachlorobutadiene	ug/Kg	380	U	380	U
SW8270	Hexachlorocyclopentadiene	ug/Kg	380	U	380	U
SW8270	Hexachloroethane	ug/Kg	380	U	380	U
SW8270	Indeno(1,2,3-cd)pyrene	ug/Kg	49	J	380	U
SW8270	Isophorone	ug/Kg	380	U	380	
SW8270	m+p-Methylphenol	ug/Kg	380	U	380	U
SW8270	N-Nitrosodi-n-propylamine	ug/Kg	380	U	380	U
SW8270	N-Nitrosodiphenylamine	ug/Kg	380	U	380	U
SW8270	Naphthalene	ug/Kg	380	U	380	U
SW8270	Nitrobenzene	ug/Kg	380	U	380	U
SW8270	Pentachlorophenol	ug/Kg	380	UJ	380	UJ
SW8270	Phenanthrene	ug/Kg	61	J	380	U
SW8270	Phenol	ug/Kg	380	U	380	U
SW8270	Pyrene	ug/Kg	130	J	380	U

Notes:

 $\mu g/Kg = micorgrams$  per kilogram mg/Kg = milligrams per kilogram

**Oualifiers** 

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Created by: BJS Date: 8/05/10

Reviewed by: WDC

Date: 8/13/10

	Sample Delivery Group	B2643	B2643	B2643
	Location	PDI-011	BKSS-001	BKSS-002
	Sample Date	6/9/2010 13:10	6/9/2010 15:55	6/9/2010 16:25
	Sample ID	LCPDI01100110XX	LCBKSS00100110XX	LCBKSS00200110XX
	Qc Code	FS	FS	FS
	Units	ug/kg	ug/kg	ug/kg
Analysis	Param Name	Result Qualifier	Result Qualifier	Result Qualifier
SW8270	2,4,5-Trichlorophenol	390 U	410 U	360 U
SW8270	2,4,6-Trichlorophenol	390 U	410 U	360 U
SW8270	2,4-Dichlorophenol	390 U	410 U	360 U
SW8270	2,4-Dimethylphenol	390 U	410 U	360 U
SW8270	2,4-Dinitrophenol	390 UJ	410 UJ	360 UJ
SW8270	2,4-Dinitrotoluene	390 U	410 U	360 U
SW8270	2,6-Dinitrotoluene	390 U	410 U	360 U
SW8270	2-Chloronaphthalene	390 U	410 U	360 U
SW8270	2-Chlorophenol	390 U	410 U	360 U
SW8270	2-Methylnaphthalene	390 U	410 U	360 U
SW8270	2-Methylphenol	. 390 U	410 U	360 U
SW8270	2-Nitroaniline	390 U	410 U	360 U
SW8270	2-Nitrophenol	390 U	410 U	360 U
SW8270	3,3`-Dichlorobenzidine	390 U	410 U	360 U
SW8270	3-Nitroaniline	390 U	410 U	360 U
SW8270	4,6-Dinitro-2-methylphenol	390 UJ	410 UJ	360 UJ
SW8270	4-Bromophenyl phenyl ether	390 U	410 U	360 U
SW8270	4-Chloro-3-methylphenol	390 U	410 U	360 U
SW8270	4-Chloroaniline	390 UJ	410 U	360 U
SW8270	4-Chlorophenyl phenyl ether	390 U	410 U	360 U
SW8270	4-Nitroaniline	390 U	410 U	360 U
SW8270	4-Nitrophenol	390 U	410 U	360 U
SW8270	Acenaphthene	390 U	410 U	360 U
SW8270	Acenaphthylene	390 U	410 U	360 U
SW8270	Acetophenone	390 U	410 U	360 U .
SW8270	Anthracene	390 U	410 U	360 U
SW8270	Atrazine	390 U	410 U	360 U
SW8270	Benzaldehyde	390 UJ	410 UJ	360 UJ
SW8270	Benzo(a)anthracene	390 U	210 J	360 U
SW8270	Benzo(a)pyrene	390 U	220 J	360 U
SW8270	Benzo(b)fluoranthene	390 U	290 J	360 U
SW8270	Benzo(ghi)perylene	390 U	160 J	360 U
SW8270		390 U	130 J	360 U
SW8270	Biphenyl	390 U	410 U	360 U
SW8270	Bis(2-Chloroethoxy)methane	390 U	410 U	360 U
SW8270	Bis(2-Chloroethyl)ether	390 U	410 U	360 U
SW8270	Bis(2-Chloroisopropyl)ether	390 U	410 U	360 U
SW8270	Bis(2-Ethylhexyl)phthalate	340 J	410 U	360 U
SW8270	Butylbenzylphthalate	390 U	410 U	360 U
SW8270	Caprolactum	390 U	410 U	360 U
SW8270	Carbazole	390 U	410 U	360 U
SW8270	Chrysene	390 U	240 J	360 U
SW8270	Di-n-butylphthalate	390 U	410 U	360 U
SW8270	Di-n-octylphthalate	390 U	410 U	360 U
SW8270	Dibenz(a,h)anthracene	390 U	410 U	360 U
SW8270	Dibenzofuran	390 U	410 U	360 U
SW8270	Diethylphthalate	390 U	410 U	360 U
SW8270	Dimethylphthalate	460 U	410 U	400 U
SW8270	Fluoranthene	56 J	480	360 U

Created by: BJS Date: 8/05/10

Reviewed by: WDC Date: 8/13/10

	Sample Delivery Group	B2643	B2643	B2643
	Location	PDI-011	BKSS-001	BKSS-002
	Sample Date	6/9/2010 13:10	6/9/2010 15:55	6/9/2010 16:25
	Sample ID	LCPDI01100110XX	LCBKSS00100110XX	LCBKSS00200110XX
	Qc Code	FS	FS	FS
	Units	ug/kg	ug/kg	ug/kg
Analysis	Param Name	Result Qualifier		Result Qualifier
SW8270	Fluorene	390 U	410 U	360 U
SW8270	Hexachlorobenzene	390 U	410 U	360 U
SW8270	Hexachlorobutadiene	390 U	410 U	360 U
SW8270	Hexachlorocyclopentadiene	390 U	410 U	360 U
SW8270	Hexachloroethane	390 U	410 U	360 U
SW8270	indeno(1,2,3-cd)pyrene	390 U	140 J	360 U
SW8270	Isophorone	390 U	410 U	360 U
SW8270	m+p-Methylphenol	390 U	410 U	360 U
SW8270	N-Nitrosodi-n-propylamine	390 U	410 U	360 U
SW8270	N-Nitrosodiphenylamine	390 U	410 U	360 U
SW8270	Naphthalene	390 U	410 U	360 U
SW8270	Nitrobenzene	390 U	410 U	360 U
SW8270	Pentachlorophenol	390 UJ	410 UJ	360 UJ
SW8270	Phenanthrene	390 U	160 J	360 U
SW8270	Phenol	390 U	410 U	360 U
SW8270	Pyrene	390 U	350 J	360 U

#### Notes:

 $\mu$ g/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Created by: BJS Date: 8/05/10

Reviewed by: WDC

Date: 8/13/10

	Sample Delivery Group	B2643	B2643
	Location	BKSS-003	BKSS-003
	Sample Date	6/9/2010 16:35	6/9/2010 16:35
	Sample ID	LCBKSS00300110XX	LCBKSS00300110XD
	Qc Code	FS	FD
	Units	ug/kg	ug/kg
Analysis		Result Qualifier	Result Qualifier
SW8270	2,4,5-Trichlorophenol	410 U	410 U
SW8270	2,4,6-Trichlorophenol	410 U	410 U
SW8270	2,4-Dichlorophenol	410 U	410 U
SW8270	2,4-Dimethylphenol	410 U	410 U
SW8270	2,4-Dinitrophenol	410 UJ	410 UJ
SW8270	2,4-Dinitrotoluene	410 U	410 U
SW8270	2,6-Dinitrotoluene	410 U	410 U
SW8270	2-Chloronaphthalene	410 U	410 U
SW8270	2-Chlorophenol	410 U	410 U
SW8270	2-Methylnaphthalene	410 U	410 U
SW8270	2-Methylphenol	410 U	410 U
SW8270	2-Nitroaniline	410 U	410 U
SW8270	2-Nitrophenol	410 U	410 U
SW8270	3,3`-Dichlorobenzidine	410 U	410 U
SW8270	3-Nitroaniline	410 U	410 U
SW8270	4,6-Dinitro-2-methylphenol	410 UJ	410 UJ
SW8270	4-Bromophenyl phenyl ether	410 U	410 U
SW8270	4-Chloro-3-methylphenol	410 U	410 U
SW8270	4-Chloroaniline	410 U	410 U
SW8270	4-Chlorophenyl phenyl ether	410 U	. 410 U
SW8270	4-Nitroaniline	410 U	410 U
SW8270	4-Nitrophenol	410 U	410 U 410 U
SW8270	Acenaphthene	410 U	410 U
SW8270	Acenaphthylene	410 U 410 U	410 U
SW8270	Acetophenone	410 U	410 U
SW8270	Anthracene Atrazine	410 U	410 U
SW8270 SW8270	Benzaldehyde	410 UJ	410 UJ
SW8270	Benzo(a)anthracene	110 J	100 J
SW8270	Benzo(a)pyrene	100 J	110 J
SW8270	Benzo(b)fluoranthene	150 J	160 J
SW8270	Benzo(ghi)perylene	78 J	83 J
SW8270	Benzo(k)fluoranthene	410 U	54 J
SW8270	Biphenyl	410 U	410 U
SW8270	Bis(2-Chloroethoxy)methane	410 U	410 U
SW8270	Bis(2-Chloroethyl)ether	410 U	410 U
SW8270	Bis(2-Chloroisopropyl)ether	410 U	410 U
SW8270	Bis(2-Ethylhexyl)phthalate	410 U	410 U
SW8270	Butylbenzylphthalate	410 U	410 U
SW8270	Caprolactum	410 U	410 U
SW8270	Carbazole	410 U	410 U
SW8270	Chrysene	130 J	130 J
SW8270	Di-n-butylphthalate	410 U	410 U
SW8270	Di-n-octylphthalate	410 U	410 U
SW8270	Dibenz(a,h)anthracene	410 U	410 U
SW8270	Dibenzofuran	410 U	410 U
SW8270	Diethylphthalate	410 U	410 U
SW8270	Dimethylphthalate	440 U	450 U
SW8270	Fluoranthene	260 J	240 J

Created by: BJS Date: 8/05/10

Reviewed by: WDC Date: 8/13/10

	Sample Delivery Group	B2643	B2643
	Location	BKSS-003	BKSS-003
	Sample Date	6/9/2010 16:35	6/9/2010 16:35
	Sample ID	LCBKSS00300110XX	LCBKSS00300110XD
	Qc Code	FS	FD
	Units	ug/kg	ug/kg
Analysis	Param Name	Result Qualifier	Result Qualifier
SW8270	Fluorene	410 U	410 U
SW8270	Hexachlorobenzene	410 U	410 U
SW8270	Hexachlorobutadiene	410 U	410 U
SW8270	Hexachlorocyclopentadiene	410 U	410 U
SW8270	Hexachloroethane	410 U	410 U
`SW8270	Indeno(1,2,3-cd)pyrene	68 J	72 J
SW8270	Isophorone	410 U	410 U
SW8270	m+p-Methylphenol	410 U	410 U
SW8270	N-Nitrosodi-n-propylamine	410 U	410 U
SW8270	N-Nitrosodiphenylamine	410 U	410 U
SW8270	Naphthalene	410 U	410 U
SW8270	Nitrobenzene	410 U	410 U
SW8270	Pentachlorophenol	410 UJ	410 UJ
SW8270	Phenanthrene	140 J	110 J
SW8270	Phenol	410 U	410 U
SW8270	Pyrene	200 J	190 J

#### Notes:

 $\mu$ g/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Created by: BJS Date: 8/05/10

Reviewed by: WDC Date: 8/13/10

261 1-00 110 110 150 150	Result Qualifier	1.9 U	1.9 U	17	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	19 N	19 0	19 U	19 N	19 U	19 U	19 U	19 U
B2618 SS-001 6/8/2010 10:30 LCSS00100110XX FS	Result Qualifier	16	10	36	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 ∪	3.9 ∪	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	38 J	39 N	20 N	20 U	20 U		20 U	20 N	20 U
Location Sample Date Sample ID Qc Code	Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg
Sample Delivery Group Location Sample Date Sample ID Qc Code	sis Param Name	081 4,4`-DDD				081 Alpha-BHC	081 Alpha-Chlordane	081 Beta-BHC	081 Delta-BHC	081 Dieldrin	081 Endosulfan I	081 Endosulfan II	081 Endosulfan sulfate	081 Endrin	081 Endrin aldehyde	081 Endrin ketone	081 Gamma-BHC/Lindane	081 Gamma-Chlordane	081 Heptachlor	081 Heptachlor epoxide	081 Methoxychlor	081 Toxaphene	082  Aroclor-1016	082   Aroclor-1221	082   Aroclor-1232	082 Aroclor-1242	082   Aroclor-1248	082   Aroclor-1254	082  Aroclor-1260
	Analysis	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW808	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8081	SW8082	SW8082	SW8082	SW8082	SW8082	SW8082	SW8082

Notes:

FD = Field Duplicate FS = Field Sample QC Code μg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram

TB = Trip Blank U = not detected at the reporting limit

Oualifiers

J = estimated concentration

																					_								
B2643 BKSS-003 6/9/2010 16:35 LCBKSS00300110XD FD	rg/ng Result Qualifier		2.7 JP	2.9	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	21 U	21 U	21 U	21 U	21 U	21 0	21 U
B2643 BKSS-003 6/9/2010 16:35 LCBKSS00300110XX FS	uging Result Qualifier	2.1 U	3 JP	3.1	2.1 U	2.1 U	2.1 U	2.1 0	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 0	21 U	21 U	21 U				
B2643 BKSS-002 6/9/2010 16:25 LCBKSS00200110XX FS	ug/ng Result Qualifier	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	19 U	19 U	19 U	19 U	19 U	19 U	19 N	19 U
B2643 BKSS-001 6/9/2010 15:55 LCBKSS00100110XX FS	ug/kg Result Qualifier	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 Ü
B2643 PDI-011 6/9/2010 13:10 LCPDI01100110XX FS	ug/kg Result Qualifier	1.3 J	4.7	5.7	2 U	2 U	2 U	2 U	2 U	3.2 JP	2 U	5 N	5.N	2 U	2 U	2 U	2 U	2 U	2 U	2 U	12	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Sample Delivery Group Location Sample Date Sample ID QC Code	Units Analysis Param Name	1					SW8081 Alpha-Chlordane	_	SW8081 Delta-BHC	SW8081 Dieldrin	SW8081 Endosulfan I	SW8081 Endosulfan II	SW8081 Endosulfan sulfate	SW8081 Endrin	SW8081 Endrin aldehyde	SW8081 Endrin ketone	SW8081 Gamma-BHC/Lindane	SW8081 Gamma-Chlordane	SW8081 Heptachlor	SW8081 Heptachlor epoxide	SW8081 Methoxychlor	SW8081 Toxaphene	SW8082 Aroclor-1016	SW8082 Aroclor-1221	SW8082 Aroclor-1232	SW8082 Aroclor-1242	SW8082 Aroclor-1248	_	SW8082 Aroclor-1260

Notes:

FS = Field Sample QC Code µg/Kg = micorgrams per kilogram mg/Kg = milligrams per kilogram Qualifiers

FD = Field Duplicate

TB = Trip Blank U = not detected at the reporting limit

J = estimated concentration

	•																							_
B2618 PDI-006 6/8/2010 12:45 LCPDI00600110XX FS	Result Qualifier	5420	2.76 U	4.22	49.1	0.26 J	0.61	1050	7.63	4.68	11.8	12000	28.8	1450	405	9.78	407	1.88	0.55 U	225	2.21 U	10.4	59.5	0.106 J
B2618 SS-001 6/8/2010 10:30 LCSS00100110XX FS	Result Qualifier	8240	2.89 U	9	97.3	0.41	1.16	2570	10.7	7.13	25.2	17400	38.8	2380	413	16.3	671	2.45	0.58 U	119	2.31 U	13.9	105	0.081 J
Location Sample Date Sample ID Qc Code	Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Sample Delivery Group Location Sample Date Sample ID Qc Code	Param Name	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcinm	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury
	Analysis	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW6010	SW7471

 $\mu g/Kg = micorgrams$  per kilogram mg/Kg = milligrams per kilogram

Qualifiers

U = not detected at the reporting limit J = estimated concentration

QC Code

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

Date: 8/13/10

## DATA USABILITY SUMMARY REPORT TABLE 2 - RESULTS SUMMARY JUNE 2010 SOIL SAMPLING LOOHNS CORNING SITE CORNING, NEW YORK

2643 B2643 5S-003 BKSS-00 10 16:35 6/9/2010 1 FS FD FD 9/kg mg/kg	ult Qualifier Result Qualifier			93.6 J 106 J	0.36 J 0.46				6.87 7.74					415 J 467 J	,		2.32 J 2.73 J	0.63 U 0.5 U		2.51 U 2 U	9.9	_	0.193 J 0.164 J
	Result Qualifier Result	2430 J 2.58 U	3.94	36.7 J	0.26 J	99.0	13000 J				· 	12.1	4840 J	317 J	13	382 J	1.68 J	0.52 U	96.8 J	2.06 U	9.13	58.1 J	0.017 J
B2643 BKSS-001 6/9/2010 15:55 LCBKSS00100110XX FS mg/kg	Resu	USD/ USD/	2.67	83.2 J	0.42	1.09	3400 J	12.6	8.35	15.6	16600 J	47.9	2480 J	488 J	17.8	167 J	2.28 J	0.42 U	605 J	1.7 U	11.2	77.1 J	0.088 J
B2643 PDI-011 6/9/2010 13:10 LCPDI01100110XX FS mg/kg	Result Qualifier	0.58 J	4.34	66.6 J	0.3	0.79	6320 J	8.64	5.79	21	13900 J	44.1	1790 J	343 J	12.8	400 J	1.92 J	0.4 U	120 J	1.6 U	9.88	76.4 J	0.134 J
Sample Delivery Group Location Sample Date Sample ID Qc Code Units		SW6010 Aluminum SW6010 Antimony	_		-	SW6010 Cadmium	SW6010 Calcium	Ŭ	_		_	SW6010 Lead	_	-	_	SW6010 Potassium	•,						

Notes:

μg/Kg = micorgrams per kilogram

mg/Kg = milligrams per kilogram

U = not detected at the reporting limit Qualifiers

J = estimated concentration FS = Field Sample QC Code

FD = Field Duplicate

TB = Trip Blank

## Table 3 - Tentatively Identified Compounds DATA USABILITY SUMMARY REPORT JUNE 2010 SOIL SAMPLING LOOHNS CORNING SITE CORNING, NEW YORK

Sample ID	CAS#	Chemical Name	Result	Qual	Units
LCSS00100110XX	72-56-0	Benzene, 1,1-(2,2-dichloroethylid	1200	JN	ug/Kg
LCSS00100110XX	4294-95-5	4-Methoxyanthranilic acid	560	JN	ug/Kg_
LCSS00100110XX	57-11-4	Octadecanoic acid	130	JN	ug/Kg
LCSS00100110XX	127-18-4	Tetrachloroethylene	1100	JN	ug/Kg
LCSS00100110XX	74579-34-3	3,4-Bis-(methylthio)-quinoline	6600		ug/Kg
LCSS00100110XX	1140-08-5	2-Methyl-7-phenylindole	650		ug/Kg
LCSS00100110XX	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trime	660		ug/Kg
LCSS00100110XX	30020-98-5	1-Methyl-3-phenylindole	170		ug/Kg
LCSS00100110XX	1000147-85-5	(E)-2-Hydroxy-4-cyano-stilbene	6000		ug/Kg
LCSS00100110XX	98-83-9	.alphaMethylstyrene	890	JN	ug/Kg
LCSS00100110XX	1000111-58-0	2,4-Diphenyl-4-methyl-1-pentene	210		ug/Kg
LCPDI01201910XX	unknown1.95	unknown1.95	7.1		ug/Kg
LCPDI01201910XX	000109-66-0	Pentane	5.1	JN	ug/Kg
LCPDI00600110XX	74579-34-3	3,4-Bis-(methylthio)-quinoline	740	JN	ug/Kg
LCPDI00600110XX	1000297-24-5	3-[(2-Methyl-5-nitro-phenylimino)-	110	JN	ug/Kg
LCPDI00600110XX	630-02-4	Octacosane	92	JN	ug/Kg
LCPDI00600110XX	127-18-4	Tetrachloroethylene	1000	JN	ug/Kg
LCPDI00600110XX	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trime	280	JN	ug/Kg
TRIPBLANK-1	000110-54-3	Hexane	17	JN	ug/Kg
LCPDI01100110XX	72-56-0	Benzene, 1,1-(2,2-dichloroethylid	160	JN	ug/kg
LCPDI01100110XX	74579-34-3	3,4-Bis-(methylthio)-quinoline	510	JN	ug/kg
LCPDI01100110XX	1000297-24-5	3-[(2-Methyl-5-nitro-phenylimino)-	150	JN	ug/kg
LCPDI01100110XX	84-61-7	1,2-Benzenedicarboxylic acid, dicy	130	JN	ug/kg
LCPDI01100110XX	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trime	130		ug/kg
LCPDI01100110XX	98-83-9	.alphaMethylstyrene	230	JN	ug/kg
LCPDI01100110XX	127-18-4	Tetrachloroethylene	240	JN	ug/kg
LCPDI01100110XX	UNKNOWN17.8	unknown17.8	130	JN	ug/kg
LCPDI01100110XX	UNKNOWN19.75	unknown19.75	1200	JN	ug/kg
LCPDI01100110XX	UNKNOWN19.79	unknown19.79	130	JN	ug/kg
LCPDI01100110XX	UNKNOWN30.2	unknown30.2	740	JN	ug/kg
LCBKSS00100110XX	192-97-2	Benzo[e]pyrene	180	JN	ug/kg
LCBKSS00100110XX	646-31-1	Tetracosane	210	JN	ug/kg
LCBKSS00100110XX	UNKNOWN17,64	unknown17.64	90	JN	ug/kg
LCBKSS00200110XX	UNKNOWN17.63	unknown17.63	99	JN	ug/kg
LCBKSS00300110XX	UNKNOWN17.64	unknown17.64	99	JN	ug/kg
LCBKSS00300110XX	7390-81-0	Oxirane, hexadecyl-		JN	ug/kg
LCBKSS00300110XD	UNKNOWN17.64	unknown17.64	100	JN	ug/kg
LCBKSS00300110XD	57-10-3	n-Hexadecanoic acid	100	JN	ug/kg
LCBKSS00300110XD	638-66-4	Octadecanal		JN	ug/kg
TRIPBLANK	UNKNOWN1.22	unknown1.22	5.1	JN	ug/l
TRIPBLANK-1	141-78-6	Ethyl Acetate		JN	ug/Kg
TRIPBLANK-1	60-29-7	Diethyl Ether		JN	ug/Kg
LCGW01502010XX	95-63-6	1,2,4-Trimethylbenzene		JN	ug/l
LCGW01302010XX	95-63-6	1,2,4-Trimethylbenzene		JN	ug/l

Prepared by: BJS 8/5/10 Checked by: WDC 8/13/10



July 13, 2010

Client:

Chemtech

Address:

284 Sheffield Street

Mountainside, NJ 07092

Date Collected:

6/9/2010

Date Received:

6/10/2010

Project #:

B2643

Client ID #:

LCPD100600410XX

Laboratory ID #: 1008966-01

Matrix:

Solid

Analyst:

**CET** 

Sieve Size	% Retained	
#4	65.7%	
#10	9.8%	
#30	8.4%	
#100	8.4%	
#140	0.7%	
#200	0.7%	
Pass #200	6.3%	

Laboratory Manager

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922

3 B264 Chemtech Project Number COC Number www.chemtech.net

D-NaOH F-OTHER B-HN03 Specify Preservatives A-HCI COMMENTS AP. SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY C-H2SO4 E-ICE BILLING INFORMATION STATE ₩ ANALYSIS 0 8 8 としてナ 9 40 Same as 4 3 ATTENTION: ADDRESS: BILL TO: N PHONE: CITY: □ USEPA CLP
□ New York State ASP "B"
□ New York State ASP "A"
□ Other 18:10 TIME COLLECTION SAMPLE PROJECT INFORMATION LOCATION DATA DELIVERABLE 01/10/10 DATE INFORMATION FÆ: B 2643 SAMPLE TYPE E-MAIL: Khummler@chemtech.net ☐ RESEULTS ONLY
☐ RESULTS \* QC
☐ New Jersey REDUCED
→ New Jersey CLP RESEULTS ONLY PROJECT MANAGER: PROJECT NAME: SAMPLE EDD FORMAT PROJECT #: PHONE soil 0 RECEIVED BY ZIP:07092 DATA TURNAROUND INFORMATION SAMPLE IDENTIFICATION DAYS" \* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS FAX:908-789-8922 CLIENT INFORMATION PROJECT DATEITIME 16:45 STATE: NJ DATE/TIME CHAIN OF CUSTODY RECORD Report to be sent to LCPD100600410XX 0 ADDRESS: 284 Sheffield St ATTENTION: Kurt Hummler PHONE: 908-728-3143 RELINQUISHED BY SAMPLER COMPANY: Chemtech CITY: Mountainside CHEMTECH HARD COPY: Ω Ö

YELLOW - CHEMTECH COPY PINK - SAMPLER COPY WHITE - CHEMTECH COPYFOR RETURN TO CLIENT

Shipment Complete

YES + NO

4 +

CHEMTECH:

₽,

ECEIVED FOR LAB BY

DATECTIME 10

01/01/9

→ Hand Delivered → Picked Up

CLENT

Overnight

#



### LABORATORY REPORT

### Client

Chemtech 284 Sheffield Street Mountainside, NJ 07092

> Order Number 1008966

Project Number B2643

**Issued** Tuesday, August 24, 2010

### **Total Number of Pages**

4 (excluding C.O.C. and cooler receipt form)

Approved By:

**QA** Manager

NELAC Accreditation #E87688





## Sample Summary

Client: Chemtech

Order Number: 1008966

Laboratory ID	Client ID	Matrix	Sampling Date
1008966-01	LCPD100600410XX	Solid	6/9/2010



3

#### **Report Narrative**

Client: Chemtech

Order Number: 1008966

Solid sample results are reported on a wet weight basis except as noted. No problems were encountered during analysis of this order number, except as noted.

#### Data Qualifiers:

B = Analyte found in the method blank

J = Estimated concentration of analyte between MDL (LOD) and Reporting Limit (LOQ)

C = Analyte has been confirmed by another instrument or method

E = Analyte exceeds the upper limit of the calibration curve.

D = Sample or extract was analyzed at a higher dilution

X = User defined data qualifier.

S = Surrogate out of control limits

U = Undetected

a = Not Accredited by NELAC

ND = Non Detected at LOQ

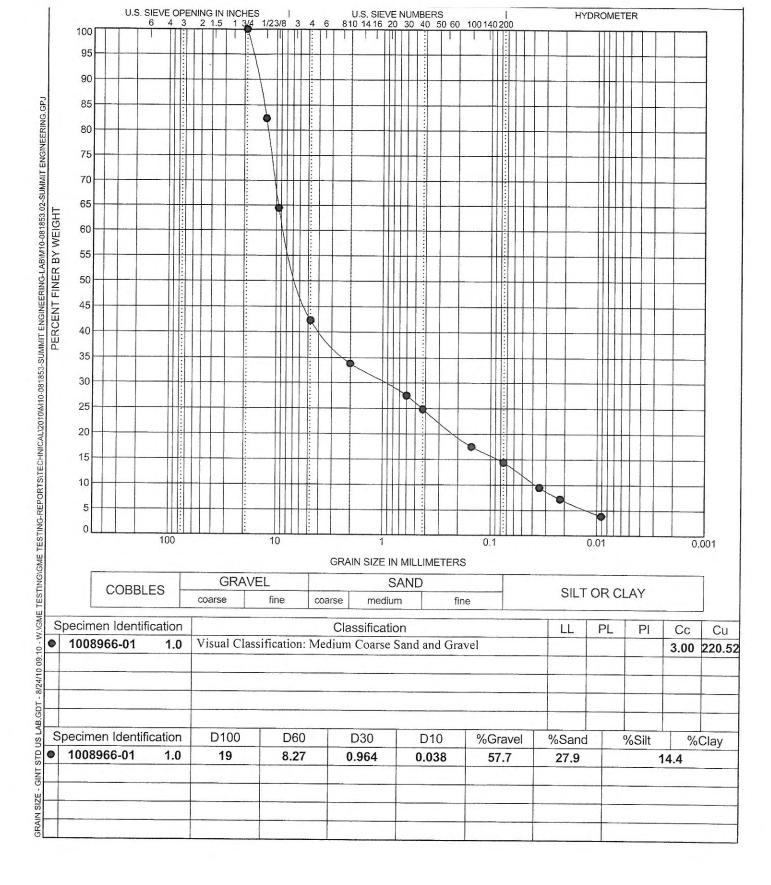
DF = Dilution Factor

Limit Of Quantitation (LOQ) = Laboratory Reporting Limit (not adjusted for dilution factor) Limit Of Detection (LOD) = Laboratory Detection Limit

Estimated uncertainty values are available upon request.

The test results meet the requirements of the NELAC standard, except where noted. The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the client. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the client for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

Matrices:
A = Air
C = Cream
DW = Drinking Water
L = Liquid
O = Oil
SL = Sludge
SO = Soil
S = Solid
T = Tablet
TC = TCLP Extract
WW = Waste Water
W = Wipe



#### APPENDIX C

#### **PHOTOGRAPHS**



Front of strip mall (former dry cleaner occupied central space)



Bucking post removal (at NW corner of Site structure)



AC unit after moving



Shed contents (before moving)



Barn foundation (SW corner)



Barn foundation (SE corner)



Non-containerized debris before removal (liner roll in foreground)



Hand digging for gas line (view towards east)





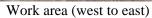
2" gas line





Excavating East to West







Exposed Gas line and view of west end of excavation

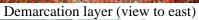


View towards East end of excavation



Demarcation layer (view to west)







Stone installation





Sand installation (sand layer placed on geotextile)







Liner installation (2)



Liner installation (3)



Welding seam around vapor well



Top sand layer placed on liner



Final grade stone (before trash removal)



Shed relocated



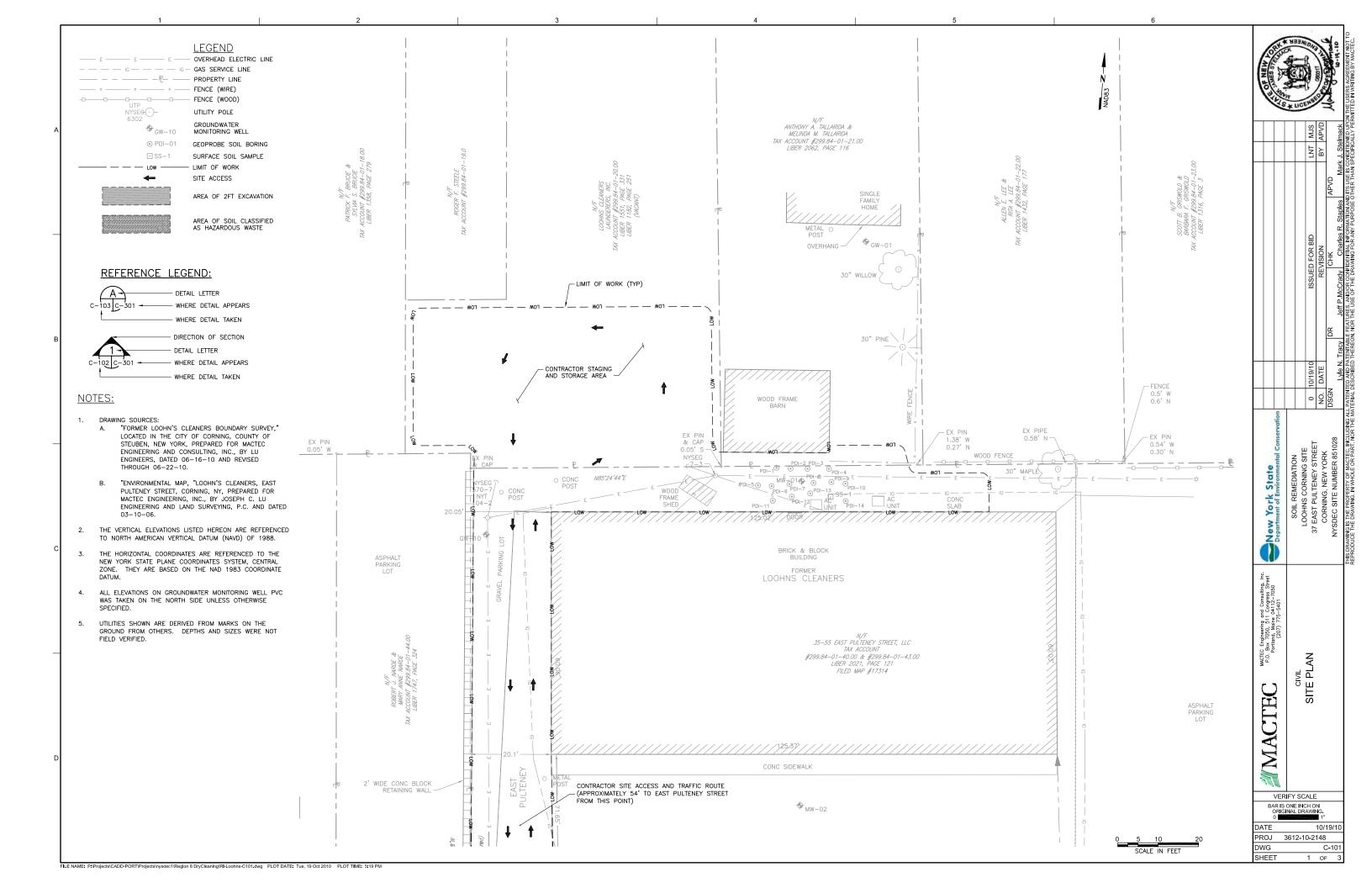
Road boxes (forms still present)



Final grade

### APPENDIX D

IRM DESIGN CIVIL PLANS



### CONSTRUCTION NOTES:

- THE WORK CONSISTS OF FURNISHING ALL LABOR MATERIALS, EQUIPMENT, AND INCIDENTALS FOR THE REMOVAL AND DISPOSAL OF CONTAMINATED SOIL, AND BACKFILLING OF THE EXCAVATION. THE WORK CONSISTS OF THE FOLLOWING:
- A. PRE-CONSTRUCTION TOPOGRAPHIC GROUND SURVEY OF THE WORK AREA AND AREA 30 FEET OUTSIDE THE LIMITS OF THE WORK.
- B. INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL AROUND THE PERIMETER OF THE WORK AREA.
- PERFORMANCE OF ONE EXPLORATION TEST PIT TO CHARACTERIZE THE DEPTH SHAPE AND DIMENSIONS OF BLOCK BUILDING FOUNDATION
- D. REMOVAL OF ALL VEGETATION AND TREE GROWTH WITHIN THE LIMITS OF THE EXCAVATION.
- E. TEMPORARY RELOCATION AND REPLACEMENT OF ONE AIR CONDITIONING (AC) UNIT.
- EXCAVATION, STOCKPILING OR CONTAINERIZATION, AND TEMPORARY DISPOSAL OF CONTAMINATED SOILS.
- G. TOPOGRAPHIC GROUND SURVEY AFTER COMPLETION OF THE EXCAVATION TO ESTABLISH CUT VOLUMES. SURVEY TRANSECTS SHALL BE PERFORMED EVERY 10 FEET PERPENDICULAR TO THE CONSTRUCTION BASELINE.
- H. PROTECTION AND MAINTENANCE OF ALL GROUNDWATER MONITORING WELLS, UTILITIES, AND BUILDING UTILITY ATTACHMENTS DURING PERFORMANCE OF THE WORK.
- REMOVE, CONTAINERIZE, AND DISPOSE OF SURFACE WATER ENTERING THE EXCAVATION.
- J. PLACEMENT OF A HIGH VISIBILITY DEMARCATION LAYER ALONG THE BOTTOM OF THE EXCAVATION TO ESTABLISH THE LIMITS OF EXCAVATION IN THE EVENT THAT FUTURE EXCAVATION IS PERFORMED AT THE SITE.
- K INSTALLATION OF A PERFORATED VACUUM EXTRACTION HDPE WELL PIPE IN THE EVENT THAT FUTURE REMEDIAL WORK IS PERFORMED AT THE SITE.
- PLACEMENT OF NEW BACKFILL, NON-WOVEN GEOTEXTILE, AND GEOMEMBRANE AS SHOWN TO MEET PRE-CONSTRUCTION GRADES.
- POST-CONSTRUCTION TOPOGRAPHIC GROUND SURVEY OF THE WORK AREA TO CONFIRM FINAL GRADES.
- 2. PRIOR TO PERFORMANCE OF THE WORK:
- A. THE CONTRACTOR SHALL PERFORM A GROUND SURVEY TO CONFIRM THE GRADES WITHIN THE LIMITS OF THE WORK. HORIZONTAL AND VERTICAL ACCURACY SHALL BE TO THE NEAREST 0.1 FEET.
- B. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AROUND THE PERIMETER OF THE WORK AREA.
- C. LOCATE AND CLEAR ALL UTILITIES WITHIN THE WORK AREA.
- D. DIVERT ALL ROOF DRAINS AWAY FROM THE WORK AREA.
- EXCAVATE ONE EXPLORATORY TEST PIT ADJACENT TO FORMER LOOHN'S CLEANERS BUILDING TO CHARACTERIZE THE BUILDING
- 3. WORK SHALL BE PERFORMED USING LEVEL D PERSONAL PROTECTION EQUIPMENT
- 4. PERFORM THE WORK IN THE GENERAL SEQUENCE AND REQUIREMENTS DESCRIBED.
- 5. TEMPORARILY RELOCATE AC UNIT PRIOR TO EXCAVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE AC UNIT AND ITS FOUNDATION SLAB/MAT FROM DAMAGE DURING PERFORMANCE OF THE WORK
- 6. EXCAVATE TO THE DEPTHS AND LIMITS SHOWN.
- EXCAVATION STABILITY AND SAFETY AND STRUCTURE FOUNDATION STABILITY IS THE RESPONSIBILITY OF THE CONTRACTOR, EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS, THE EXCAVATION SLOPES SHOWN ARE APPROXIMATIONS MADE BY THE ENGINEER OF THOSE EXPECTED TO BE STABLE. ACTUAL SLOPES MAY VARY DEPENDING UPON THE CONDITIONS ENCOUNTERED, AND BASED ON THE ASSESSMENT MADE BY THE CONTRACTOR
- 8. VARIATIONS IN THE DEPTH AND SHAPE OF THE EXCAVATION MAY OCCUR DEPENDING UPON THE CONDITIONS ENCOUNTERED AND CONTAMINATION ENCOUNTERED. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER REGARDING ANY VARIATIONS IN THE EXCAVATION FOOTPRINT, DEPTH. AND SHAPE.

- 9. EXCAVATED SOIL SHALL BE STOCKPILED OR CONTAINERIZED UNTIL DIRECTIONS REGARDING DISPOSAL ARE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL SEPARATE SOIL CHARACTERIZED AS HAZARDOUS WASTE (NYCRR 370) FROM SOIL CHARACTERIZED AS SOLID WASTE (NYCRR 360). THE ENGINEER WILL SAMPLE AND PERFORM ANALYTICAL TESTING ON EACH STOCKPILE/CONTAINER TO CHARACTERIZE SOILS FOR DISPOSAL. ANTICIPATE TWO WEEKS FROM TIME OF STOCKPILING COMPLETION TO TIME ENGINEER GIVES DIRECTION ON DISPOSAL LOCATION REQUIREMENTS (TIME FOR LABORATORY ANALYSIS OF STOCKPILE AND RECEIPT OF "CONTAINED IN" LETTER FROM NYSDEC). ALL EXCAVATED SOILS WILL BE DISPOSED OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 10. THE CONTRACTOR SHALL ASSIST THE ENGINEER IN COLLECTION OF DOCUMENTATION SAMPLING FROM THE EXCAVATION. DOCUMENTATION SAMPLE ANALYTICAL TESTING WILL BE PERFORMED BY THE
- 11 DIRECT SURFACE RUNOFF FROM EXCAVATION DEWATER EXCAVATION, AND CONTAINERIZE AND DISPOSE OF WATER REMOVED FROM EXCAVATION
- 12. LINE THE BOTTOM AND SIDE SLOPES OF THE EXCAVATION WITH ORANGE SAFETY FENCING AS A DEMARCATION LAYER. PROVIDE A MINIMUM OF 24-INCH OVERLAP FOR EACH JOINT.
- 13. THE CONTRACTOR SHALL PROTECT AND MAINTAIN MONITORING WELL MW-01 DURING EXCAVATION AND BACKFILLING OPERATIONS.
- 14. INSTALL 4-INCH DIAMETER, PERFORATED, PVC PIPE AS SHOWN FOR POTENTIAL FUTURE VACUUM EXTRACTION WELL.
- 15. BACKFILL THE EXCAVATION WITH CRUSHED STONE IN LIFTS NOT EXCEEDING 12-INCHES. COMPACTION OF BACKFILL DEEPER THAN 4 FEET SHALL BE PERFORMED REMOTELY BY TAMPING WITH AN EXCAVATOR BUCKET. COMPACTION OF BACKFILL SHALLOWER THAN 4 FEET SHALL BE PERFORMED BY TRACKING WITH A 5,000 POUND (MINIMUM) FRONT END LOADER.
- 16. INSTALL NON-WOVEN GEOTEXTILE, GEOMEMBRANE, AND SAND CUSHION LAYER AS SHOWN. GEOMEMBRANE, GEOTEXTILE, AND SAND CUSHION LAYER SHALL EXTEND TO THE OUTER LIMITS OF THE EXCAVATION TO PROVIDE FULL COVERAGE OF FXCAVATION
- 17. PLACE NON-WOVEN GEOTEXTILE AND GEOMEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. AT THE TIME OF INSTALLATION. NON-WOVEN GEOTEXTILE AND GEOMEMBRANE SHALL BE REJECTED IF IT HAS DEFECTS, RIPS, HOLES, FLAWS, OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION. OR STORAGE. ALL GEOSYNTHETIC MATERIALS SHALL RF NFW
- 18. PLACE NON-WOVEN GEOTEXTILE SMOOTH AND FREE OF TENSION, STRESS, FOLDS, WRINKLES, OR CREASES. THE NON-WOVEN GEOTEXTILE SHALL BE PLACED ON A SMOOTH SURFACE AND IN INTIMATE CONTACT WITH THE CRUSHED STONE SUBGRADE, SUCH THAT NO VOID SPACES EXIST BETWEEN THE SUBGRADE AND GEOTEXTILE, AND IN SUCH A MANNER THAT IT WILL NOT EXCESSIVELY STRETCH OR TEAR UPON PLACEMENT OF THE OVERLYING SAND CUSHION AND GEOMEMBRANE. PROVIDE A MINIMUM OF 36-INCH OVERLAP FOR EACH JOINT REPAIR ANY TORN GEOTEXTILE, OR ANY OVERLAP THAT SEPARATES, BY PLACING ADDITIONAL GEOTEXTILE AS A PATCH OVER THE EXPOSED AREA PROVIDE A MINIMUM OF 36-INCHES OVERLAP AT THE PATCH
- 19. PLACE 6-INCHES OF SAND CUSHION LAYER OVER THE NON-WOVEN GEOTEXTILE.
- 20. PLACE THE GEOMEMBRANE SMOOTH AND FREE OF TENSION, STRESS, FOLDS, WRINKLES, OR CREASES ABOVE THE SAND CUSHION LAYER. THE GEOMEMBRANE SHALL BE PLACED ON A SMOOTH SURFACE AND IN INTIMATE CONTACT WITH THE SAND CUSHION, SUCH THAT NO VOID SPACES EXIST BETWEEN THE SUBGRADE AND GEOMEMBRANE, AND IN SUCH A MANNER THAT IT WILL NOT EXCESSIVELY STRETCH OR TEAR UPON PLACEMENT OF THE OVERLYING SAND CUSHION AND CRUSHED STONE.
- 21. GEOMEMBRANE SEAMS SHALL BE FABRICATED BY FUSION OR EXTRUSION WELDING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. SEAMS SHALL HAVE A FINISHED MINIMUM OVERLAP OF 4 INCHES FOR FUSION WELDING AND 6 INCHES FOR EXTRUSION WELDING. CLEANING SOLVENTS MAY NOT BE USED UNLESS APPROVED BY THE MANUFACTURER AND ENGINEER.
- 22 INSTALL GEOMEMBRANE PENETRATION BOOT AT THE CONTACT WITH THE 4-INCH DIAMETER VACUUM EXTRACTION PIPE AND 2-INCH DIAMETER GROUNDWATER MONITORING WELL (MW-01).

- 23, COVER THE TOP SAND CUSHION LAYER WITH 1.5 FEET OF CRUSHED STONE, AND GRADE SURFACE TO MEET PRE-CONSTRUCTION GRADES.
- 24. INSTALL 12-INCH DIAMETER FLUSH MOUNT PROTECTIVE CASING ROADBOX FOR THE VACUUM EXTRACTION PIPE AS SHOWN.
- 25 REPLACE FLUSH MOUNT PROTECTIVE CASING ROADBOX FOR MW-01 AS NECESSARY.
- 26. RE-INSTALL TEMPORARILY RELOCATED AC UNIT TO ITS ORIGINAL LOCATION, REPLACE THE REINFORCED CONCRETE FOUNDATION MAT AS NECESSARY SHOULD DAMAGE OCCUR DURING ITS RELOCATION AND RE-INSTALLATION.
- 27. MATERIAL REQUIREMENTS.
- A. CRUSHED STONE SHALL CONSIST OF CLEAN, DURABLE, SHARP-ANGLED FRAGMENTS OF GRAVEL AND CONFORM TO THE REQUIREMENTS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) SPECIFICATION SECTION 703-0202. SIZE DESIGNATION 1 (NYSDOT TABLE 703-4). THE MATERIAL SHALL BE FROM A NYSDOT APPROVED SOURCE AND THE GRADATION SHALL BE AS FOLLOWS:

SCREEN SIZE	PERCENTAGE BY WE
<u>PASSING</u>	
1 INCH	100
1/2 INCH	90-100
1/4 INCH	0-15
NO. 200	0-1.0

FRAME SHED

CONTRACTOR

CUSHION SAND SHALL CONSIST OF CLEAN. HARD, DURABLE UNCOATED PARTICLES, FREE FROM LUMPS OF CLAY AND ALL DELETERIOUS SUBSTANCES. DRY CUSHION SAND SHALL CONFORM TO THE REQUIREMENTS OF NYSDOT SPECIFICATION SECTION 703-06. THE MATERIAL SHALL BE FROM A NYSDOT APPROVED SOURCE AND THE GRADATION SHALL BE AS FOLLOWS::

SCREEN SIZE PASSING	PERCENTAGE BY WEIGHT
1/4 INCH	100
NO. 5	0-35
NO. 200	0-10

C. NON-WOVEN GEOTEXTILE SHALL BE COMPOSED OF POLYPROPYLENE FIBERS FORMED INTO A STABLE NETWORK SUCH THAT THE FIBERS RETAIN THEIR RELATIVE POSITION. NON-WOVEN GEOTEXTILE SHALL CONSIST OF MIRAFI 140-N OR EQUAL AS APPROVED BY THE ENGINEER. NON-WOVEN GEOTEXTILE SHALL MEET THE FOLLOWING EQUIVALENT REQUIREMENTS:

KAINIIKALIKA

WOOD FRAME

EXCAVATE TO

EL 927.5'

FI 929.8'

DOOR

0+18 11.5'R

STA

BRICK & BLOCK

FORMER

LOOHN'S CLEANERS

0+16 11.5'R

STA 0S

PDI-1

STA 0+18

08 3.5'R

STA 0+18

OS 7.5 R

TEST METHOD	PERMISSIBLE VALUE
APPARENT OPENING SIZE	70
(ASTM D4751)	US STD SIEVE SIZE
GRAB TENSILE STRENGTH (ASTM D4632)	20 LBS
GRAB TENSILE ELONGATION (ASTM D4632)	50% PERCENT
PUNCTURE STRENGTH (ASTM D4833)	65 LBS
MULLEN BURST STRENGTH (ASTM D3786)	225 LBS
PERMITTIVITY (ASTM D5493)	1.7 SEC-1

CONSTRUCTION BASELINE A-A

PDI-5

2' MIN EXCAVATION

DEPTH LIMIT (TYP)

(ALONG PROPERTY LINE)

- EXISTING SURVEY PIN

REMOVE AND REPLACE EXISTING SHED

D. GEOMEMBRANE SHALL CONSIST OF A HIGH DENSITY POLYETHYLENE MANUFACTURED OF POLYETHYLENE RESINS AND SHALL MEET THE FOLLOWING FOUIVALENT REQUIREMENTS:

TEST METHOD

THICKNESS (ASTM D5199)

MINIMUM

PERMISSIBLE VALUE

40 MIL

STA

STA 0+29

05/3.5'R

EXCAVATE TO

TEMPORARILY BARRICADE DOOR TO PREVENT

BUILDING FOR THE DURATION OF THE WORK

ACCESS BETWEEN THE

WORK AREA AND THE

EL/925.5

STA

STA OS

STA 0+24, OS 7.0'R

RE-INSTALL AC UNI

VACUUM EXTRACTION WELL

TEMPORARILY REMOVE AND

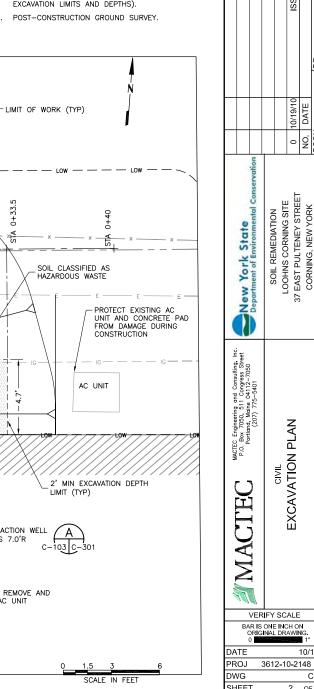
- EXCAVATE TO

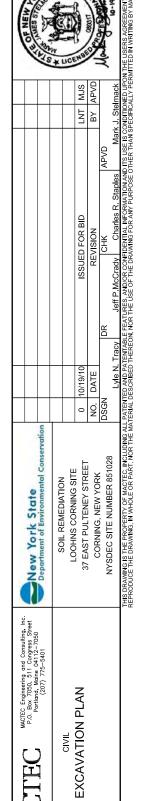
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SHEET DENSITY (ASTM D1505/D792)	0.940 G/CC
YIELD STRENGTH (ASTM D6693)	84 LB/IN
BREAK STRENGTH (ASTM D6693)	152 LB/IN
YIELD ELONGATION (ASTM D6693)	12%
BREAK ELONGATION (ASTM D6693)	700%
TEAR RESISTANCE (ASTM D1004)	28 LBS
PUNCTURE RESISTANCE (ASTM D4833)	72 LBS
CARBON BLACK CONTENT	2.0 - 3.0%

E. DEMARCATION LAYER SHALL CONSIST OF ORANGE SAFETY FENCING, CONSTRUCTED OF POLYETHYLENE/POLYPROPYLENE WITH A MINIMUM TENSILE STRENGTH OF 250 LBS/FT

- 28. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SUBMITTALS TO THE ENGINEER FOR REVIEW AND
  - A. EXCAVATION WORK PLAN DESCRIBING THE EXCAVATION METHODOLOGIES AND EQUIPMENT; EXCAVATION SLOPES; RESUME OF THE RESPONSIBLE PERSON IN CHARGE OF EXCAVATION STABILITY; METHODS OF COMPACTION: MEANS FOR INSPECTION MONITORING, AND PROTECTION OF THE FORMER LOOHN'S CLEANERS BUILDING AND BARN; AND MEANS OF TEMPORARY STOCKPILING OR CONTAINERIZATION OF CONTAMINATED AND UNCONTAMINATED SOIL
  - B. SITE HEALTH AND SAFETY PLAN
  - C. GRADATIONS AND SOURCE OF PROPOSED SOIL/AGGREGATE BACKFILL MATERIALS (MINIMUM OF TWO GRADATIONS PER MATERIAL).
  - D. MANUFACTURER'S DATA SHEET ON PROPOSED NON-WOVEN GEOTEXTILE, GEOMEMBRANE, AND ORANGE SAFETY FENCING
  - E. GEOTEXTILE AND GEOMEMBRANE MANUFACTURER'S INSTALLATION AND QUALITY ASSURANCE DETAILS.
- F. METHOD OF SEAMING AND TESTING OF JOINTS OF GEOMEMBRANE.
- G. PRE-CONSTRUCTION SURVEY.
- H. GROUND SURVEY OF EXCAVATION (SHOWING EXCAVATION LIMITS AND DEPTHS).
- I. POST-CONSTRUCTION GROUND SURVEY

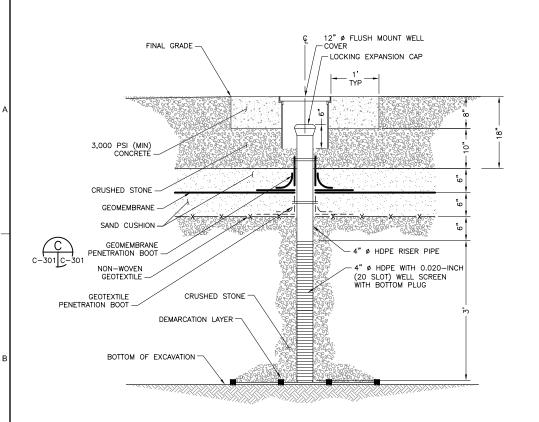




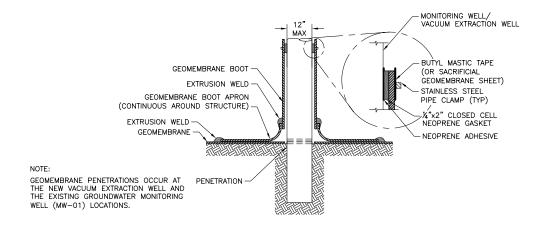
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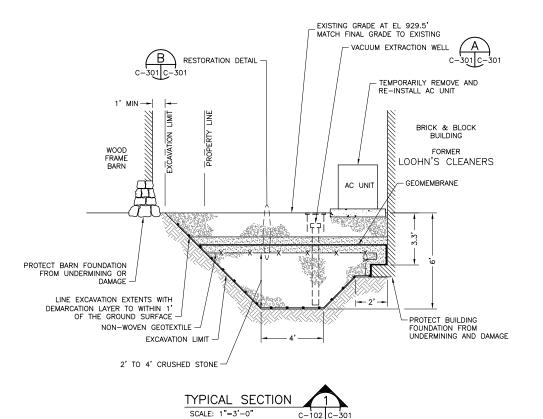
FILE NAME: P:\Projects\CADD-PORT\Projects\nvsdec1\Region 8 DrvCjean|na\R-Loohns-C102.dva PLOT DATE: Tue. 19 Oct 2010 PLOT TIME: 5:27 PM

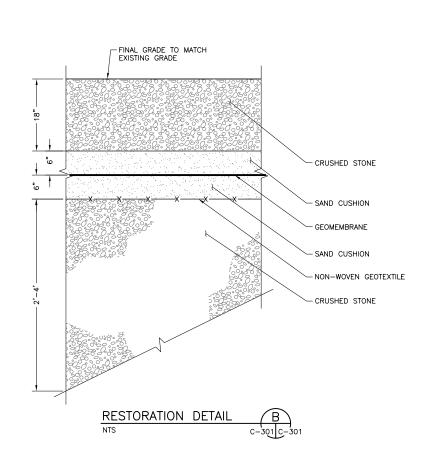


VACUUM EXTRACTION WELL A











### APPENDIX E

IRM SAMPLING DATA

### DATA USABILITY SUMMARY REPORT 2010 SOIL EXCAVATION SAMPLING LOOHNS DRY CLEANERS SITE CORNING, NEW YORK

### 1.0 INTRODUCTION

Soil excavation samples were collected at the Ludlow Landfill Site (Site) in Paris, New York in December 2010 and submitted for off-site laboratory analysis. Samples were analyzed by Chemtech located in Mountainside, New Jersey. Results were reported in the following Sample Delivery Group (SDG): B4458.

A listing of samples included in SDG B4458 is presented in Table 1. Soil and waste samples were collected. Waste characterization samples identified on Table 1 were not included in this Data Usability Summary Report (DUSR) review, but results are included on Table 2. A summary of the analytical results is presented in Table 2. A summary of data qualification actions and validation action reason codes presented in Table 3. Tentatively Identified Compounds (TICs) are presented in Table 4. Samples were analyzed by the following method:

Volatile organic compounds (VOCs) by USEPA Method 8260B

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2010). USEPA Region 2 quality control (QC) limits were used during the data evaluation unless noted otherwise (USEPA, 2006). The DUSR review included the evaluations of the following items:

- lab package narrative
- data package completeness and chain of custody
- sample collection, preservation, and holding times
- instrument calibration
- QC data (blanks, lab control samples, and surrogate recovery)
- results transcription and calculation checks
- electronic data reporting
- lab data qualifiers

The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

D = concentration is from a diluted analysis of the sample

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

### **2.0 VOCS – METHOD 8260B**

### **VOC - Initial and Continuing Calibration**

### **SDG B4458**

The continuing calibration (analyzed December 10, 2010) associated with a subset of samples had a percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF that was greater than the control limit of 20 for acetone (-23). Acetone was not detected in the samples and quantitation limits were qualified as estimated (UJ) in the following samples:

EX-06-04	
EX-07-04	

The continuing calibration standards (analyzed December 9, 2010, and December 10, 2010) associated with all samples had percent differences between the initial calibration average RRF and the continuing calibration RRFs that were greater than the control limit of 20 for trichlorofluoromethane (-35, -22). Trichlorofluoromethane was not detected in any of the samples, and quantitation limits were qualified as estimated (UJ) in the following samples:

EX-01-06	EX-04-06	EX-07-04
EX-02-06	EX-05-06	
EX-03-06	EX-06-04	

### Tentatively Identified Compounds

Tentatively identified compounds (TICs) were reported by the laboratory. TICs reported in samples are presented in Table 4. Only samples that had TICs reported are included on Table 4. If a sample is not listed, no TICs were reported in the sample.

### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2006. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B"; SOP # HW-24, Revision 2, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi
Julie Mikures

Date: 12/21/10

Reviewed by Chris Ricardi, NRCC-EAC Quality Assurance Officer

Date: 2/15/11

### TABLE 2 SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT DECEMBER 2010 SOIL SAMPLING LOOHNS DRY CLEANERS CORNING, NEW YORK

		Location		(-01		(-02		(-03		(-04
		mple Date		/2010		/2010		/2010		/2010
		Sample ID		01-06		02-06		03-06		04-06
Analysis	In-new star	Qc Code		S		S		S		S
Analysis SW8260B	Parameter 4.4.4 Triables of honor	Units	Result			Qualifier	Result	Qualifier		Qualifier
	1,1,1-Trichloroethane	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,1,2,2-Tetrachloroethane	ug/kg	5.4		4.8		4.7	U		U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,1,2-Trichloroethane	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,1-Dichloroethane	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,1-Dichloroethene	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,2,4-Trichlorobenzene	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,2-Dibromo-3-chloropropane	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,2-Dibromoethane	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,2-Dichlorobenzene	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,2-Dichloroethane	ug/kg	5.4		4.8		4.7	U	4.4	
SW8260B	1,2-Dichloropropane	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,3-Dichlorobenzene	ug/kg	5.4		4.8			U	4.4	
SW8260B	1,4-Dichlorobenzene	ug/kg	5.4		4.8			U	4.4	
SW8260B	2-Butanone	ug/kg	27		24		24		22	
SW8260B	2-Hexanone	ug/kg	i	U	24	U	24		22	
SW8260B	4-Methyl-2-pentanone	ug/kg	27		24	U	24		22	
SW8260B	Acetic acid, methyl ester	ug/kg	5.4	U	4.8		4,7	U	4.4	
SW8260B	Acetone	ug/kg	34		24		29		22	U
SW8260B	Benzene	ug/kg	5.4		4.8		4.7		4.4	
SW8260B	Bromodichloromethane	ug/kg	5.4		4.8		4.7	U	4.4	Ų
SW8260B	Bromoform	ug/kg	5.4		4.8		4.7	Ų	4.4	Ü
SW8260B	Bromomethane	ug/kg	5.4		4.8		4.7	U	4.4	Ų
SW8260B	Carbon disulfide	ug/kg	5.4		4.8		4.7		4.4	Ù
SW8260B	Carbon tetrachloride	ug/kg	5.4		4.8		4.7		4.4	U
SW8260B	Chlorobenzene	ug/kg	5.4		4.8		4.7		4.4	Ü
SW8260B	Chlorodibromomethane	ug/kg	5.4		4.8		4.7	U		U
SW8260B	Chloroethane	ug/kg	5.4		4.8			U	4.4	U
SW8260B	Chloroform	ug/kg	5.4		4.8		4.7		4.4	U
SW8260B `	Chloromethane	ug/kg	5.4		4.8	U	4.7	U	4.4	U
SW8260B	Cis-1,2-Dichloroethene	ug/kg	5.4		4.8			U	4.4	U
SW8260B	cis-1,3-Dichloropropene	ug/kg	5.4		4.8		4.7	U	4.4	U
SW8260B	Cyclohexane	ug/kg	5.4		4.8		4.7	U	4.4	U
SW8260B	Dichlorodifluoromethane	ug/kg	5.4		4.8		4.7		4.4	Ū
SW8260B	Ethyl benzene	ug/kg	5.4		4.8		4.7		4.4	U
SW8260B	Isopropylbenzene	ug/kg	5.4		4.8	U	4.7	U	4.4	Ų
SW8260B	Methyl cyclohexane	ug/kg	5.4		4.8	U	4.7		4.4	U
SW8260B	Methyl Tertbutyl Ether	ug/kg	5.4	J	4.8	U	4.7	U	4.4	Ų
SW8260B	Methylene chloride	ug/kg	13		8.2		6.2		8.7	
SW8260B	Styrene	ug/kg	5.4		4.8		4.7	U	4.4	U
SW8260B	Tetrachloroethene	ug/kg	15		79		29		110	
SW8260B	Toluene	ug/kg	5.4		4.8	U	4.7		1.1	
SW8260B	trans-1,2-Dichloroethene	ug/kg	5.4	U	4.8	U	4.7	U	4.4	
SW8260B	trans-1,3-Dichloropropene	ug/kg	5.4	Ŭ	4.8	U	4.7		4.4	
SW8260B	Trichloroethene	ug/kg	5.4		4.8		4.7		4.4	
SW8260B	Trichlorofluoromethane	ug/kg	5.4		4.8			ÜJ	4.4	
SW8260B	Vinyl chloride	ug/kg	5.4		4.8		4.7		4.4	
SW8260B	Xylene, m/p	ug/kg	11		9.6		9,4		8.7	
SW8260B	Xylene, o	ug/kg	5.4		4.8		4.7		4.4	

ug/L = microgram per liter mg/L = milligram per liter

Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample, FD = Field Duplicate

### TABLE 2 SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT DECEMBER 2010 SOIL SAMPLING LOOHNS DRY CLEANERS CORNING, NEW YORK

		Location		<-05		<-06	E)	(-07	SC	2509
	Sa	mpie Date	12/8	3/2010	12/8	/2010	12/8	/2010	12/7	/2010
		Sample ID	EX-	05-06	EX-	06-04		07-04		2509
		Qc Code		FS	F	-S		-S		-\$
Analysis	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifie
SW8260B	1,1,1-Trichloroethane	ug/kg	4.3	Ü	5	U .	4.4		5.8	
SW8260B	1,1,2,2-Tetrachloroethane	ug/kg	4.3	U	5	υ	4.4	U	5.8	U
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	4.3	U	5	U	4.4	U	5.8	
SW8260B	1,1,2-Trichloroethane	ug/kg	4.3	U	5	U	4.4		5.8	
SW8260B	1,1-Dichloroethane	ug/kg	4.3	Ū	5	Ü	4.4	Ū	5.8	
SW8260B	1,1-Dichloroethene	ug/kg	4.3	U	5	Ū	4.4	U	5.8	
SW8260B	1,2,4-Trichlorobenzene	ug/kg	4.3			ΰ	4.4		5.8	
SW8260B	1,2-Dibromo-3-chloropropane	ug/kg	4.3	U		U	4.4	U	5.8	Ü
SW8260B	1,2-Dibromoethane	ug/kg	4.3	Ü		Ü	4.4		5.8	
SW8260B	1,2-Dichlorobenzene	ug/kg	4.3			Ų	2.5		5.8	
SW8260B	1,2-Dichloroethane	ug/kg	4.3	Ü		U	4.4		5.8	
SW8260B	1,2-Dichloropropane	ug/kg	4.3			Ū .	4.4		5.8	
SW8260B	1,3-Dichlorobenzene	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	1,4-Dichlorobenzene	ug/kg	4.3			Ū	0.91		5.8	
SW8260B	2-Butanone	ug/kg	21		25		22		29	
SW8260B	2-Hexanone	ug/kg	21		25				29	
SW8260B	4-Methyl-2-pentanone	ug/kg	21		25				29	
SW8260B	Acetic acid, methyl ester	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Acetone	ug/kg	18			UJ	22		29	
SW8260B	Benzene	ug/kg	4.3			U			5.8	
SW8260B	Bromodichloromethane	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Bromoform	ug/kg	4.3			U			5.8	
SW8260B	Bromomethane	ug/kg	4.3			Ü	4.4	<del>U</del>	5.8	
SW8260B	Carbon disulfide	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Carbon tetrachloride	ug/kg	4.3			<del>U</del>	4.4		5.8	<u> </u>
SW8260B	Chlorobenzene	ug/kg	4.3			Ü	4.4		5.8 5.8	
SW8260B	Chlorodibromomethane	ug/kg	4.3			υ	4.4	U		
SW8260B	Chloroethane	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Chloroform	ug/kg	4.3			υ	4.4		5.8	
SW8260B	Chioromethane	ug/kg	4.3			Ü	4.4	U	5.8	
SW8260B	Cis-1,2-Dichloroethene	ug/kg ug/kg	4.3		2.6			•	5.8	
SW8260B	cis-1,3-Dichloropropene	ug/kg ug/kg	4.3			n n			5.8	
SW8260B	Cyclohexane	ug/kg ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Dichlorodifluoromethane	ug/kg ug/kg	4.3			U	4.4	U	5.8	
SW8260B	Ethyl benzene						4.4		5.8	
SW8260B	Isopropylbenzene	ug/kg	4.3			U	4.4	U	5.8	
SW8260B	Methyl cyclohexane	ug/kg	4.3			U	4.4	U	5.8	
SW8260B	Methyl Tertbutyl Ether	ug/kg	4.3			U			5.8	
SW8260B	Methylene chloride	ug/kg	4.3	U		U		U	5.8	
SW8260B	Styrene	ug/kg	8.8	ļ.,	8.7		10		5.8	
		ug/kg	4.3		5	U	4.4		5.8	
SW8260B	Tetrachloroethene	ug/kg	42		170		6300		640	
SW8260B	Toluene	ug/kg	4.3			'n	0.69		5.8	
SW8260B	trans-1,2-Dichloroethene	ug/kg	4.3			U	4.4		5.8	
SW8260B	trans-1,3-Dichloropropene	ug/kg	4.3			Ü	4.4		5.8	
SW8260B	Trichloroethene	ug/kg	4.3		3.1		4.4		2.1	
SW8260B	Trichlorofluoromethane	ug/kg		UJ		UJ	4.4		5.8	
SW8260B	Vinyl chloride	ug/kg	4.3			C	4.4		5.8	
SW8260B	Xylene, m/p	ug/kg	8.6		10		8.7		12	
SW8260B	Xylene, o	ug/kg	4.3	JU	5	U	4.4	U	5.8	Ú

Notes:

ug/L = microgram per liter mg/L = milligram per liter

Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample, FD = Field Duplicate

### TABLE 2 SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT DECEMBER 2010 SOIL SAMPLING LOOHNS DRY CLEANERS CORNING, NEW YORK

			2513	SC2513		SC2520		
		mple Date	12/8	/2010		/2010		/2010
	Sample ID			SC2513		SC2513DUP		2520
		Qc Code		-S		D	1	-S
Analysis	Parameter	Units	Result	Qualifier		Qualifier	Result	Qualifier
SW8260B	1,1,1-Trichloroethane	ug/kg	5.8		5.9		5.7	U
SW8260B	1,1,2,2-Tetrachloroethane	ug/kg	5.8		5.9		5.7	Ú
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	5.8		5.9		5.7	U
SW8260B	1,1,2-Trichloroethane	ug/kg	5.8		5.9		5.7	U
SW8260B	1,1-Dichloroethane	ug/kg	5.8	U	5.9		5.7	U
SW8260B	1,1-Dichloroethene	ug/kg	5.8		5.9			U
SW8260B	1,2,4-Trichlorobenzene	ug/kg	5.8		5.9		5.7	U
SW8260B	1,2-Dibromo-3-chloropropane	ug/kg	5.8		5.9		5.7	U
SW8260B	1,2-Dibromoethane	ug/kg	5.8		5.9		5.7	Ŭ
SW8260B	1,2-Dichlorobenzene	ug/kg	. 5.8		5.9		5.7	U
SW8260B	1,2-Dichloroethane	ug/kg			5.9		5.7	Ü
SW8260B	1,2-Dichloropropane	ug/kg	5.8		5.9	<u>د</u>	5.7	U
SW8260B	1,3-Dichlorobenzene	ug/kg	5.8		5.9		5.7	
SW8260B	1,4-Dichlorobenzene	ug/kg	5.8		5,9	U	5.7	U
SW8260B	2-Butanone	ug/kg	29		29		29	U
SW8260B	2-Hexanone	ug/kg	29		29		29	U
SW8260B	4-Methyl-2-pentanone	ug/kg	29		29		29	U
SW8260B	Acetic acid, methyl ester	ug/kg	5.8		5.9		5.7	U
SW8260B	Acetone	ug/kg	29		29		29	U
SW8260B	Benzene	ug/kg	5.8		5.9		5.7	U
SW8260B	Bromodichloromethane	ug/kg	5.8		5.9	U	5.7	U
SW8260B	Bromoform	ug/kg	5.8		5,9		5.7	U
SW8260B	Bromomethane	ug/kg	5.8	U	5.9	U	5.7	U
SW8260B	Carbon disulfide	ug/kg	5.8		5.9		5.7	บ
SW8260B	Carbon tetrachloride	ug/kg	5.8		5.9		5.7	U
SW8260B	Chlorobenzene	ug/kg	5.8	U	5.9	U	5.7	Ų
SW8260B	Chlorodibromomethane	ug/kg	5.8	Ù	5.9	U	5.7	Ü
SW8260B	Chloroethane	ug/kg	5.8	U	5.9	U	5.7	U
SW8260B	Chloroform	ug/kg	5.8	U	5.9	Ų	5.7	U
SW8260B	Chloromethane	ug/kg	5.8		5.9	Ū	5,7	U
SW8260B	Cis-1,2-Dichloroethene	ug/kg	5.8		5.9		5.7	U
SW8260B	cis-1,3-Dichloropropene	ug/kg	5.8		5.9	Ü	5.7	U
SW8260B	Cyclohexane	ug/kg	5.8	Ų	5.9	Ų	5.7	U
SW8260B	Dichlorodifluoromethane	ug/kg	5.8		5.9	Ū	5.7	U
SW8260B	Ethyl benzene	ug/kg	5.8		5.9		5.7	U
SW8260B	Isopropylbenzene	ug/kg	5.8		5.9		5.7	U
SW8260B	Methyl cyclohexane	ug/kg	5.8		5.9		5.7	U
SW8260B	Methyl Tertbutyl Ether	ug/kg	5.8		5.9	Ū	5.7	U
SW8260B	Methylene chloride	ug/kg	5.8		5.9	U	5.7	U
SW8260B	Styrene	ug/kg	5.8	U	5.9	Ū ]	5.7	U
SW8260B	Tetrachloroethene	ug/kg	200		66		14	
SW8260B	Toluene	ug/kg	5.8	U	5.9	U	5.7	Ū
SW8260B	trans-1,2-Dichloroethene	ug/kg	5.8	U	5.9		5.7	
SW8260B	trans-1,3-Dichloropropene	ug/kg	5.8		5.9		5.7	
SW8260B	Trichloroethene	ug/kg	5.8		5.9		5.7	
SW8260B	Trichlorofluoromethane	ug/kg	5.8		5.9		5.7	
SW8260B	Vinyl chloride	ug/kg	5.8		5.9		5.7	
SW8260B	Xylene, m/p	ug/kg	12		12		11	
SW8260B	Xylene, o	ug/kg	5.8		5.9		5.7	
Notes:		<del> </del>					<u> </u>	-

ug/L = microgram per liter mg/L = milligram per liter

Qualifiers

U = not detected at the reporting limit

J = estimated concentration

QC Code

FS = Field Sample, FD = Field Duplicate

# TABLE 3 SUMMARY OF DATA VALIDATION ACTIONS DATA USABILITY SUMMARY REPORT DECEMBER 2010 SOIL SAMPLING LOOHNS DRY CLEANERS CORNING, NEW YORK

SDG	Lab Sample Id	Analysis Method	Field Sample II	Paramater Name	Lab Result	Lab Qualifie	Validated Result	Validation Qualifie	Val Reason Code	Result Units	Lab Id
B4458	B4458-02	SW8260B	EX-01-06	Trichlorofluoromethane			5.4		CCV%D		CCGE
B4458	B4458-03	SW8260B	EX-02-06	Trichlorofluoromethane	4.8	lυ	4.8	UJ	CCV%D	1 ~ ~	CCGE
B4458	B4458-04	SW8260B	EX-03-06	Trichlorofluoromethane	4.7	U	4.7	UJ	CCV%D	1 5 5 1	CCGE
B4458	B4458-06	SW8260B	EX-04-06	Trichlorofluoromethane	4.4	u	4.4	UJ	CCV%D	,	CCGE
B4458	B4458-07	SW8260B	EX-05-06	Trichlorofluoromethane	4.3	U	4.3	บม	CCV%D	1 ~ ~ 1	CCGE
B4458	B4458-08	SW8260B	EX-06-04	Acetone	25	บ	25	UJ	CCV%D		CCGE
B4458	B4458-08	SW8260B	EX-06-04	Trichlorofluoromethane	5	U	5	UJ		~ ~	CCGE
B4458	B4458-09	SW8260B	EX-07-04	Acetone	22	U	22	UJ			CCGE
B4458	B4458-09	SW8260B	EX-07-04	Trichlorofluoromethane	4.4	Ų	4.4	UJ		, , ,	CCGE

Notes:

### Validation Qualifier Reason Codes-

CCV%D = Continuing calibration percent difference limit exceeded

Prepared by: BJS 1/25/2011 Checked by: JAR 1/27/2011

# TABLE 4 SUMMARY OF TENTATIVELY IDENTIFIED COMPOUNDS DATA USABILITY SUMMARY REPORT DECEMBER 2010 SOIL SAMPLING LOOHNS DRY CLEANERS CORNING, NEW YORK

SDG	Sample ID	Lab Sample ID	Analytical Method	CAS Number	Compound	Final Result (ug/kg)	Qualifier	Analysis Date
B4458	EX-01-06	B4458-02	SW8260B	000110-54-3	Hexane	6.6	JN	12/9/2010
B4458	EX-04-06	B4458-06	SW8260B	000124-18-5	Decane	4.4	JN	12/9/2010
B4458	EX-07-04	B4458-09	SW8260B	002847-72-5	Decane, 4-methyl-	47	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	004057-42-5	2-Octene, 2,6-dimethyl-	41	JN	12/11/2010
B4458	EX-01-06	B4458-02	SW8260B	60-29-7	Diethyl ether	8.7	JN	12/9/2010
B4458	EX-03-06	B4458-04	SW8260B	60-29-7	Diethyl ether	4.6	JN	12/9/2010
B4458	EX-05-06	B4458-07	SW8260B	60-29-7	Diethyl ether	6.6	JN	12/9/2010
B4458	EX-06-04	B4458-08	SW8260B	60-29-7	Diethyl ether	. 5.3	ЛN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	95-63-6	I,2,4-Trimethylbenzene	11	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	108-67-8	1,3,5-Trimethylbenzene	43	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	622-96-8	4-Ethyltoluene	5.9	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	99-87-6	4-iso-Propyltoluene	13	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	95-93-2	Benzene, 1,2,4,5-tetramethyl	6.2	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	60-29-7	Diethyl ether	3.4	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	91-20-3	Naphthalene	0.98	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	104-51-8	n-Butylbenzene	14	JN	12/11/2010
B4458	EX-07-04	B4458-09	SW8260B	135-98-8	sec-Butylbenzene	10	JN	12/11/2010

Notes:

### Qualifiers

JN = estimated value with presumptive evidence that the compound is present in the sample

### APPENDIX F

IRM SOIL TRANSPORT AND DISPOSAL DOCUMENTATION

## New York State Department of Environmental Conservation

Division of Environmental Remediation

Remedial Bureau A, 11th Floor

625 Broadway, Albany, NY 12233-7015

**Phone:** (518) 402-9625 • **FAX:** (518) 402-9627

Website: www.dec.ny.gov



December 14, 2010

Mr. Eric Sandin, C.G.
Project Manager
MACTEC Engineering and Consulting
511 Congress St. Portland, ME 04101

RE: Hazardous Waste Determination Letter for Soil Cuttings

Loohns Corning Site (Site # 851028)

Dear Mr. Sandin:

We have completed our review of the data submitted with your December 13, 2010, request, via e mail, for a "contained in" determination at the referenced project site.

Concentration for tetrachloroethene and trichloroethene were below the soil "contained in" action level and the Land Disposal Restriction concentration. Therefore, the three (3) containers containing soil generated during the soil removal, approximately 50 tons of soil, at the referenced project site do not have to be managed as hazardous waste and can be transported off site to a Permitted Part 360 Solid Waste Facility with a liner and leachate collection system. Please provide the Department the name and address of the facility that will receive it.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9622 or email me at hjwilkie@gw.dec.state.ny.us.

Henry Wilkie

Environmental Engineer 1 Remedial Section B

ecc: M. Dunham



# NON-HAZARDOUS WASTE

# **NON-HAZARDOUS WASTE MANIFEST**

Please print	, , , , , , , , , , , , , , , , , , , ,	12 pitch) typewriter)					
	NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA	NYD980773816		Manifest Document No	17321	2. Page 1 1
3. G	enerator's Name and Mailing Address L <b>oohn's Cleaners &amp; Laund</b> 37 East Pulteney Street	erers				**************************************	
4. G	Corning, NY 14830 ienerator's Phone (	207-775-540	l Attn: Eric Sandin				
10000	ransporter 1 Company Name		6. US EPA ID Number		A. State Trans	sporter's ID	
	Page Transportation		N Y D 9 8 6 9 6 9 9	4 7	B. Transporte	<del></del>	1-800-233-2126
7. Tr	ransporter 2 Company Name		8. US EPA ID Number		C. State Trans	sporter's ID	
					D. Transporte	r 2 Phone	
9. De	esignated Facility Name and Site Address Bath Landfill 5832 Turnpike Road		10. US EPA ID Number		E. State Facili	ty's ID	
	Bath, NY 14810		N/A		F. Facility's Ph	ione	(607) 77 <b>6</b> -924
11. V	WASTE DESCRIPTION			No.	ntainers Type	13. Total Quantity	14, Unit Wt./Vol.
a.	Non Regulated Mate	rial (Solid)				- <b>56</b> T.	VVI./VOI.
-				001	DT	20	T
G b.							
N							
R c.							
A							
0							
R d.							
G. Ad	ditional Descriptions for Materials Listed Above				H. Handling Co	des for Wastes Listed A	hove
	a. Approval#		C			_	_
9	a. Applorain		C.		a.	L	c
	b		d.	ļ	b.		ai .
15. Sc	pecial Handling Instructions and Additional Inform	nation			U.		d.
			A. T. L. E				_
	Emergency Response # 3 Job # WMAE0007	300-225-6750	Op-Tech Environmenta	il Serv	ices, Inc.	PA-AH 059	<b>3</b>
Denou.	District contract contract contract contract	W Coom comm	COMP COMP COMP COMP C				
16, GE	ENERATOR'S CERTIFICATION: I hereby certify	that the contents of this s	hinmont are fully and accurately dear it	<b>M</b> 2		<u> </u>	
in	ENERATOR'S CERTIFICATION: I hereby certify proper condition for transport. The materials described to the condition for transport.	cribed on this manifest are	e not subject to lederal hazardous waste regu	un tions.	i respects		
3			$-\Omega$	h	1	Г	Date
4	d/Typed Name  The History  The		Signature	T	1	٨	Month Day Year
	ansporter 1 Acknowledgement of Receipt of Mate	a ria la	1000	1	<del>' _1</del>		1111
R Printed	VTyped Name	and is	Şignatur		<del>//</del>		Date
S Zy	AV L Donna	$\sim$	Jamy )	(la	1000	<i>N</i>	fonth Day Year
9 18. Tra	ansporter 2 Acknowledgement of Receipt of Mate	erials	1 / 2	7	V- VVC		Date
T 17. Tra R Printed NS P 18. Tra Printed E R	VTyped Name		Signature /				fonth Day Year
-	crepancy Indication Space						
A							
20 Fac	cility Owner or Operator: Certification of receipt of	the waste materials cove	red by this manifest, except as noted in item	19.			
L LOTTE	$\sim$ /		L A	13.		r <del>-</del>	Date
Printed/	Typed Name // ///		Signature		<del></del>	M	onth Day Year,
<u> </u>							1//1//
CF14 ©	2002 LABEL MASTER (800) 621-580	08 www.labelmaste	r.com TU			FRINTED ON	N RECYCLED PAPER PROTECT HETH

# NON-HAZARDOUS WASTE

# **NON-HAZARDOUS WASTE MANIFEST**

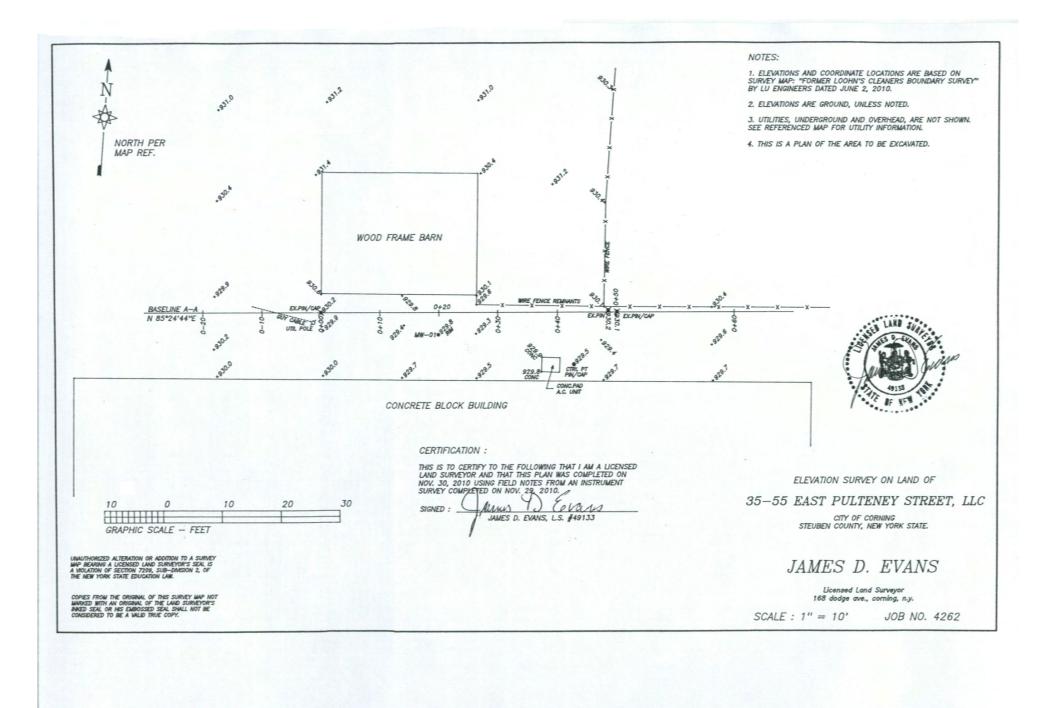
Pleas	se print or type (Form designed for use on elite (	12 pitch) typewriter)				
1000	MASTE MANIFEST	1. Generator's US EPA ID No. NYD980773816	;	Manifest Document No.	17320	2. Page 1 <b>1</b>
lin.	3. Generator's Name and Mailing Address Loohn's Cleaners & Laund	lerers				
	37 East Pulteney Street	· <del>-</del> ·-·-				
	Coming, NY 14830	202 227 742 4				
	4. Generator's Phone ( )	207-775-5401 Attn: Eric Sandin				
7	5. Transporter 1 Company Name	6. US EPA ID Number		A. State Transpo	orter's ID	
	Page Transportation	N Y D 9 8 6 9 6 9	947	B. Transporter 1	Phone 1	-800-233-2126
4	7. Transporter 2 Company Name	8. US EPA ID Number		C. State Transpo		
100				D. Transporter 2	Phone	
100	Designated Facility Name and Site Address     Bath Landfill	10. US EPA ID Number		E. State Facility's	3 ID	
200	5632 Tumpike Road					
	Bath, NY 14810	, N/A		F. Facility's Phon	ie (	(607) 776-924
	11. WASTE DESCRIPTION		-	ntainers		
			No.		13. Total	14. Unit
7	a.		NO.	Туре	Quantity	Wt./Vol.
20	Non Regulated Mate	erial (Solid)			<b>B84</b> .	
9		( ,	00	DT	202	T
- 1	b.					
GENER	5.					
N						
E						
R	C.					
A						
o-						
R	d.					
Diam's						
	G. Additional Descriptions for Materials Listed Above			H. Handling Code	es for Wastes Listed Abov	/8
	a. Approval#	C.		a. I		С
9	и. Уфранции	<b>U.</b>		a. L	-	C
100	b	.4				
200	D	d.		b.		d.
b.)				IJ.		u.
	15. Special Handling Instructions and Additional Inform	nation				
7	Emergency Response #	800-225-6750 Op-Tech Environmen	tal Sen	iree Inc	DA AH 0500	
333	Job # WMAE0007	out the of the operation the contract of the c	ituri Juri	ricos, iric.	FA-AI10333	
9	000 1 WWW. (2000)					
201	THE COURS STORE STORE STORE STORE					
			ABJA		MY AN S	7 43 43
J	16. GENERATOR'S CERTIFICATION: I hereby certify	y that the contents of this shipment are fully and accurately described scribed on this manifest are not subject to federal hazardous waste re	d and are in a	ul respects		
	ar propor condition for transport. The materials des	number on this marriest are not subject to lederal nazardous waste n	econations.	1		
٩_		(1)	ノム	1		Date
	Printed/Typed Name	Signature			Mor	nth Day Year
<b>9</b>	DAVID Kiton	100120	//	V		111111
Ţ	17. Transporter 1 Acknowledgement of Receipt of Mar	terials		<b>—</b>		Date
äГ	Printed/Typed Name	Signature	7		Mon	nth Day Year
S /	CARRY ( Don	man Tanis	2 6	1ch m	1000 / 1	111 111
TRANSPORTER	18. Transporter 2 Acknowledgement of Fi ceipt of Mai		6		$\alpha$	Date
Ϊſ	Printed/Typed Name	Signature			Mon	
R	,				141011	1 1
	19. Discrepancy Indication Space		<del></del>			
F.	, ,					
A						
, -	20. Facility Owner or Operator: Cartification of consumer	of the waste materials covered by this manifest, except as noted in ite	10			
L	20. I dominy Owner or Operator, Certification of federal C	n the waste materials covered by this manifest, except as noted in its	em 19.		<b></b>	
╏┝	Bentod/Tuned Name	117 12/1	~		<u> </u>	Date
Ÿ	Printed/Typed Name	Signature Signature			Mont	th Day Year
			/		==1	+(///
CEI	4 @ 2002 LABEL MASTER \$ (800) 621.58	108 www.labalmastar.com			PRINTED ON RE	CYCLED PAPER TARRETTE WITH

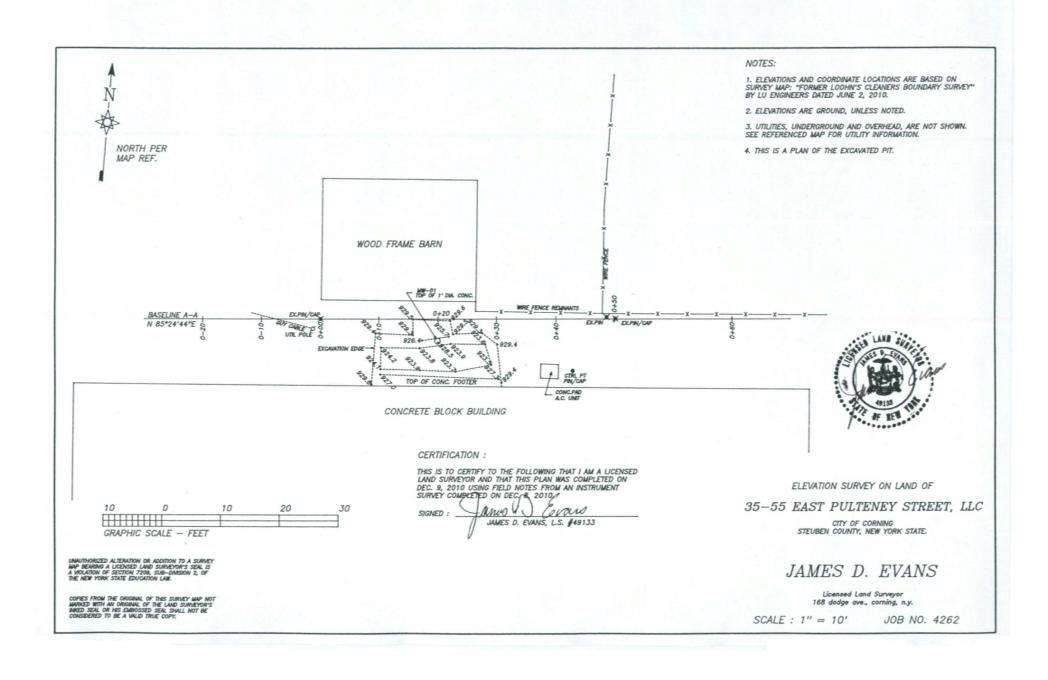
# **NON-HAZARDOUS WASTE MANIFEST**

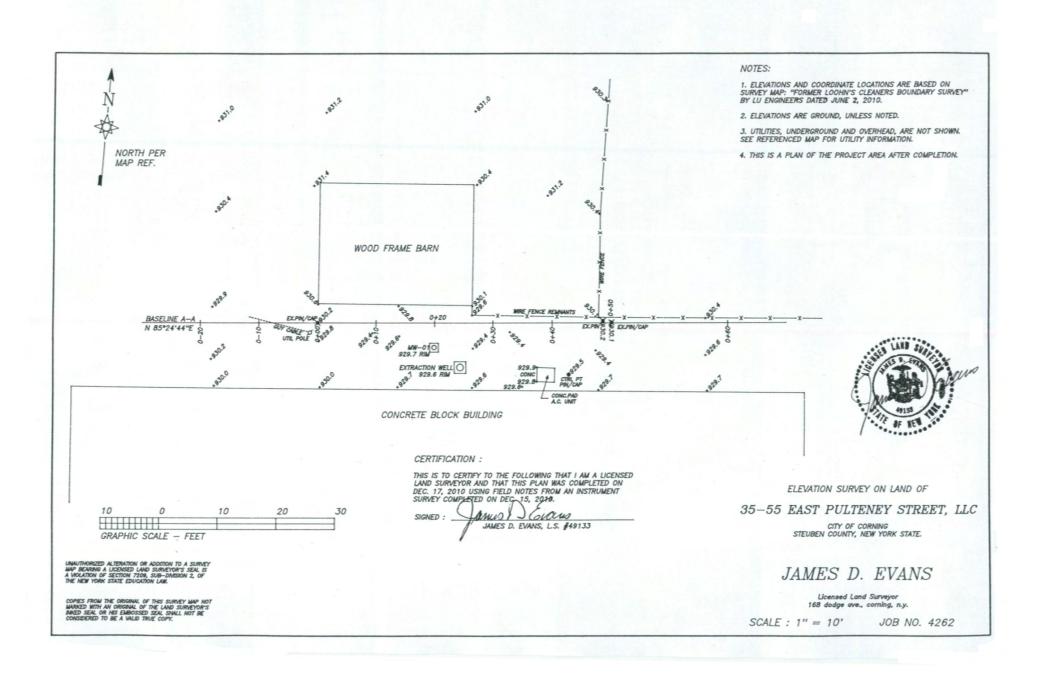
WASTE MANIFEST	NYD980773816		Manifest Document No.	17319	2. Page 1 1
3. Generator's Name and Mailling Address Loohn's Cleaners & Launderers 37 East Pulteney Street Corning, NY 14830	775-5401 Attn: Eric Sændin				
5. Transporter 1 Company Name Page Transportation	6. US EPA ID Number	0 / 7	A. State Transpor		
		94/	B. Transporter 1 P	hone 1-8	00-233-2126
7. Transporter 2 Company Name	8. US EPA ID Number		C. State Transpor	ter's ID	
0.00		· · · · · · · · · · · · · · · · · · ·	D. Transporter 2 F	hone	
9. Designated Facility Name and Site Address  Bath Landfill  5632 Turnpike Road	10. US EPA ID Number		E. State Facility's	ID	
Bath, NY 14810	N/A		F. Facility's Phone	(6	07) 776-92
11. WASTE DESCRIPTION		1 1	ntainers	13. Total	14. Unit
a.		No.	Туре	Quantity	Wt./Vol.
Non Regulated Material (So	lid)	00	ТД	20 20	Т
b. c.					
C.					
d.					
u.					
G. Additional Descriptions for Materials Listed Above		1	H. Handling Codes	for Wastes Listed Above	
a. Approval #	C.		a. L	С	
b	đ.		b.	d	-
15. Special Handling Instructions and Additional Information  Emergency Response # 800-225  Job # WMAE0007	5-6750 Op-Tech Environment	al Serv	ic <del>es</del> , Inc. F	PA-AH 0599	
	MMMMM	W A	y ay a	y by by	
16. GENERATOR'S CERTIFICATION: I hereby certify that the conte	ents of this shipment are fully and accurately described manifest are not subject to federal hazardous waste rec	and are in al	respects		
proper condition for transport, the materials described on this	The state of the s	ulations.			
proper condition to transport. The materials described on this		ulations.		*	
in proper condition of transport. The materials described on this		ulations.			Date
Printed/Typed Name	Sgratury 20	Juliations.	**************************************	Month	Day Year
Printed/Typed Name A three Marie A three Marie A three Marie A three A		Quations.	$\sim$	Month	
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials	Sinatur	Quations.	$\bigcap$	Month	Day Year
Printed/Typed Name		Ulations		Month	Day Year
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Grinted/Typed Name  Cillia Common C	Sinatur	2	anma		Day Year  N Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  18. Transporter 2 Acknowledgement of Receipt of Materials	Sinatur	2 V	On Comme		Day Year  N Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Grinted/Typed Name  Cillia Common C	Sinatur	2	On ma		Day Year  N Date  Day Year
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signature	2	<u>O</u> ma	Month	Day Year  Oate  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  3. Transporter 2 Acknowledgement of Receipt of Materials	Signature	2 V	Om,	Month	Day Year  Oate  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Rrinted/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signature	2	Onma	Month	Day Year  Oate  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature	2	<u>Onna</u>	Month	Day Year  Oate  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Rrinted/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	Signature Signature Signature	2	<u>O</u> m	Month	Day Year  Date  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature  Signature  Signature  Signature  Signature	2	Om,	Month	Day Year  Date  Day Year  Day Year  Date
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication Space	Signature Signature Signature	2	An 1	Month	Day Year Date Day Year Date Day Year

### APPENDIX G

**IRM SURVEYS** 







### APPENDIX H

IRM FIELD LOGS

MACTEC, Inc.	PAGE 1 OF1
FIELD DATA RECORD - SURFACE SOIL SAMPLING / TEST PITS	
PROJECT Loohns Corning IRM JOB NUMBER 3612102148 03.0	1 DATE 12/7/2010
FIELD SAMPLE NUMBER SC2509 ACTIVITY TIME START E	BOTTLE TIME 1320
SURFACE SOIL DATA ASSOCIATED TRIP BLANK RINSATE BLANK	
DEPTH OF SOIL TYPE OF SOIL: EQUIPMENT FOR COLLECTION  TYPE OF SAMPLE DISCRETE ORGANIC HAND CORER  X COMPOSITE SAND X S.S. SPOON  SAMPLE OBSERVATIONS X GRAVEL X ALUMINUM PAN  ODOR None CLAY S.S. SPATULA  COLOR Dark Brown OTHER OTHER	DI WATER N2 PURGE  POTABLE WATER  LIQUINOX  OTHER
SOIL         METHOD NUMBER NUMBER         PRESERVATION VOLUMENT         VOLUMENT           TCL-VOA         4 C         (1) 4           TCL-VOA         4 C         40 m	ILE TYPE  JME SAMPLE  JIRED COLLECTED  oz jar  L vial w/ DI Water  L vial w/ MeOH
NOTES/SKETCH:  Sample from roll-off container SC2509  Dark brown silty gravel,(GM) damp, no odor PID=0	
SAMPLED B RECEIVED B	Y: Dave Lovejoy Y:

<b>MACTEC</b>	, Inc.			PAGE 1 OF1
FIELD DATA RECORD - SU	IRFACE SOIL SAMPLIN	IG / TEST PITS		
PROJECT Loohns Corning IRM		JOB NUMBER 3612102148	03.01	DATE 12/7/2010
FIELD SAMPLE NUMBER EX-	01-06 ACTIVI	TY TIME START	END	BOTTLE TIME 1450
QC SAMPLES COLLECTED				
SURFACE SOIL DATA ASSOCIATE	D TRIP BLANK	RINSATE BLA	NK	
DEPTH OF SOIL 6ft	TYPE OF SOIL:	EQUIPMENT FOR COLLEC	TION DECON FLUIDS USED	
TYPE OF SAMPLE X DISCRETE COMPOSITE  SAMPLE OBSERVATIONS  ODOR None  COLOR Dark Brown	ORGANIC SAND X GRAVEL CLAY OTHER	HAND CORER  X S.S. SPOON  X ALUMINIUM PAN  S.S. SPATULA  OTHER	DI WATER N2 PURGE POTABLE WATER LIQUINOX OTHER	
ANALYTICAL PARAMETERS SOIL	METHOD NUMBER TCL-VOA TCL-VOA	PRESERVATION  METHOD  4 C  4 C  4 C	BOTTLE TYPE VOLUME SAMPLE REQUIRED COLLECTED (1) 4 oz jar 40 mL vial w/ DI Water 40 mL vial w/ MeOH	
NOTES/SKETCH:  Bottom sample Dark brown silty gravel,(GP) PID=0	) damp, no odor		PLED BY: <u>Dave Lovejoy</u> VED BY:	

MACTEC, Inc.		PAGE 1 OF1
FIELD DATA RECORD - SURFACE SO	DIL SAMPLING / TEST PITS	
PROJECT Loohns Corning IRM	JOB NUMBER 3612102148 03.01	DATE 12/7/2010
FIELD SAMPLE NUMBER EX-02-06	ACTIVITY TIME START END	BOTTLE TIME 1500
QC SAMPLES COLLECTED		
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK	
DEPTH OF SOIL 6ft TYPE OF SOIL:	EQUIPMENT FOR COLLECTION DECOI	N FLUIDS USED
TYPE OF SAMPLE DISCRETE  X COMPOSITE  SAMPLE OBSERVATIONS  ODOR None  COLOR Dark Brown	SAND X S.S. SPOON PI	I WATER N2 PURGE OTABLE WATER IQUINOX THER
	/OA 4 C 40 mL vial w/	SAMPLE COLLECTED DI Water X
NOTES/SKETCH:  Bottom sample Dark brown silty gravel,(GP) damp, no odo PID=0	SAMPLED BY:	Dave Lovejoy

		PAGE 1 OF1
MACTEC, Inc.		1762 1311
FIELD DATA RECORD - SURFACE SOIL SAMPLING	G / TEST PITS	
PROJECT Loohns Corning IRM	JOB NUMBER 3612102148 03.01	DATE 12/7/2010
FIELD SAMPLE NUMBER EX-03-06 ACTIVITY  QC SAMPLES COLLECTED	YTIME START END	BOTTLE TIME 1520
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK	
DEPTH OF SOIL 6ft TYPE OF SOIL:	EQUIPMENT FOR COLLECTION DECON FLU	JIDS USED
TYPE OF SAMPLE         X         DISCRETE         ORGANIC           COMPOSITE         SAND           SAMPLE OBSERVATIONS         X         GRAVEL           ODOR         None         CLAY           COLOR         Dark Brown         OTHER		
ANALYTICAL PARAMETERS  SOIL  METHOD  NUMBER  TCL-VOA  TCL-VOA  TCL-VOA  TCL-VOA	PRESERVATION VOLUME METHOD 4 C VOLUME REQUIRED (1) 4 oz jar 4 C 40 mL vial w/ DI W 4 C 40 mL vial w/ MeC	
NOTES/SKETCH:  Bottom sample Dark brown silty gravel,(GP) damp, no odor PID=0		
	SAMPLED BY: D	
	RECEIVED BY:	<del>-</del>

MA CERC I		PAGE 1 OF1
MACTEC, Inc.		
FIELD DATA RECORD - SURFACE SOIL SAMPLIN	G / TEST PITS	
PROJECT Loohns Corning IRM	JOB NUMBER 3612102148 03.01	DATE 12/8/2010
FIELD SAMPLE NUMBER EX-04-06 ACTIVIT  QC SAMPLES COLLECTED	Y TIME START END	BOTTLE TIME 920
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK	
DEPTH OF SOIL 6ft TYPE OF SOIL:	EQUIPMENT FOR COLLECTION DECON FLU	JIDS USED
TYPE OF SAMPLE X DISCRETE ORGANIC COMPOSITE SAND		ER N2 PURGE LE WATER
SAMPLE OBSERVATIONS X GRAVEL	X ALUMINIUM PAN LIQUIN	
ODORNone        CLAY           COLORDark Brown        OTHER	S.S. SPATULA OTHER	
	_	
ANALYTICAL PARAMETERS SOIL METHOD	BOTTLE TYPE PRESERVATION VOLUME	SAMPLE
NUMBER TCL-VOA	METHOD REQUIRED (1) 4 oz jar	COLLECTED
TCL-VOA TCL-VOA	4 C 40 mL vial w/ DI W 4 C 40 mL vial w/ MeC	
	40 40 HE VIAI W/ Wee	
🗄		
NOTES/SKETCH:		
Bottom sample Dark brown silty gravel,(GP) damp, no odor PID=0.1		
	SAMPLED BY: D	lave Loveiov
	RECEIVED BY:	

MACTEC, Inc.	PAGE 1 OF1
FIELD DATA RECORD - SURFACE SOIL SAME	PLING / TEST PITS
PROJECT Loohns Corning IRM	JOB NUMBER 3612102148 03.01 DATE 12/8/2010
FIELD SAMPLE NUMBER EX-05-06 A	CTIVITY TIME START END BOTTLE TIME 1000
QC SAMPLES COLLECTED	
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK
DEPTH OF SOIL 6ft TYPE OF SOIL:	EQUIPMENT FOR COLLECTION DECON FLUIDS USED
TYPE OF SAMPLE X DISCRETE ORGANIC COMPOSITE SAND	HAND CORER DI WATER N2 PURGE  X S.S. SPOON POTABLE WATER
SAMPLE OBSERVATIONS X GRAVEL  ODOR None CLAY	X ALUMINIUM PAN LIQUINOX S.S. SPATULA OTHER
COLOR Dark Brown OTHER	OTHER
ANALYTICAL PARAMETERS SOIL  METHOD NUMBER TCL-VOA TCL-VOA TCL-VOA TCL-VOA TCL-VOA TCL-VOA TCL-VOA	PRESERVATION VOLUME SAMPLE  METHOD REQUIRED COLLECTED  4 C 40 mL vial w/ DI Water 4 C  4 C 40 mL vial w/ MeOH
Bottom sample Dark brown silty gravel,(GP) damp, no odor PID=0	
	SAMPLED BY: Dave Lovejoy
	RECEIVED BY:

MACTEC, Inc.	PAGE 1 OF1
FIELD DATA RECORD - SURFACE SOIL SAMPLING /	TEST PITS
PROJECT Loohns Corning IRM	DB NUMBER 3612102148 03.01 DATE 12/8/2010
FIELD SAMPLE NUMBER EX-06-04 ACTIVITY TIM	IE START END BOTTLE TIME 1030
QC SAMPLES COLLECTED	
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK
DEPTH OF SOIL 4ft TYPE OF SOIL:	EQUIPMENT FOR COLLECTION DECON FLUIDS USED
TYPE OF SAMPLE X DISCRETE ORGANIC COMPOSITE SAND	HAND CORER DI WATER N2 PURGE  X S.S. SPOON POTABLE WATER
SAMPLE OBSERVATIONS X GRAVEL ODOR None CLAY	X ALUMINIUM PAN LIQUINOX S.S. SPATULA OTHER
COLOR Dark Brown OTHER	OTHER
ANALYTICAL PARAMETERS SOIL  METHOD NUMBER TCL-VOA TCL-VOA TCL-VOA TCL-VOA  NOTES/SKETCH:	PRESERVATION VOLUME SAMPLE  METHOD REQUIRED COLLECTED  4 C (1) 4 oz jar  4 C 40 mL vial w/ DI Water A  4 C 40 mL vial w/ MeOH
Sidewall sample Dark brown silty gravel,(GP) damp, no odor PID=0.2	
	SAMPLED BY: Dave Lovejoy
	RECEIVED BY:

		PAGE 1 OF1
MACTEC, Inc.		17.62 1 61 1
FIELD DATA RECORD - SURFACE SOIL SAMPLIN	G / TEST PITS	
PROJECT Loohns Corning IRM	JOB NUMBER 3612102148 03.01	DATE 12/8/2010
FIELD SAMPLE NUMBER EX-07-06 ACTIVIT  QC SAMPLES COLLECTED	Y TIME START END	BOTTLE TIME 1055
SURFACE SOIL DATA ASSOCIATED TRIP BLANK	RINSATE BLANK	
DEPTH OF SOIL  TYPE OF SAMPLE  X DISCRETE  COMPOSITE  SAND  SAMPLE OBSERVATIONS  ODOR  None  COLOR  Dark Brown  TYPE OF SOIL:  ORGANIC  SAND  CANDON SAMPLE  ORGANIC  ORGANIC  ORGANIC  SAND  CLAY  OTHER  OTHER		IR NZ PURGE E WATER
ANALYTICAL PARAMETERS SOIL METHOD NUMBER TCL-VOA TCL-VOA TCL-VOA	PRESERVATION BOTTLE TYPE    METHOD   REQUIRED   1	
NOTES/SKETCH:  Sidewall sample Dark brown silty gravel,(GP) damp, no odor PID=0.2	SAMPLED BY: Da RECEIVED BY:	

MACTEC, I	nc.				PAGE 1 OF1
FIELD DATA RECOR	D - SURFACE SOIL SA	AMPLING / TEST	PITS		
PROJECT Loohns Corning IRI			BER 3612102148	03.01	DATE 12/8/2010
FIELD SAMPLE NUMBER	SC2520	ACTIVITY TIME S	TART	END	BOTTLE TIME 0730
QC SAMPLES COLLECTED					
SURFACE SOIL DATA AS	SSOCIATED TRIP BLANK		RINSATE BLAI	NK	
DEPTH OF SOIL	TYPE OF SOIL:	EC	QUIPMENT FOR COLLECT	TION DECON FLUIDS USED	
TYPE OF SAMPLE DISCRETE  X COMPOSITE  SAMPLE OBSERVATIONS  ODOR None  COLOR Dark Brown		vel x	HAND CORER  S.S. SPOON  ALUMINIUM PAN  S.S. SPATULA  OTHER	DI WATER N2 PURGE POTABLE WATER LIQUINOX OTHER	
ANALYTICAL PARAMETERS SOIL	METHOD <u>NUMBER</u> TCL-VOA TCL-VOA TCL-VOA	F	PRESERVATION METHOD 4 C 4 C 4 C	BOTTLE TYPE VOLUME SAMPLE REQUIRED COLLECTED (1) 4 oz jar X 40 mL vial w/ DI Water 40 mL vial w/ MeOH	2
	f container SC2520 avel,(GP) dry, no odor			LED BY: Dave Lovejoy VED BY:	

MACTEC, 1	nc.			PAGE 1 OF1
FIELD DATA RECOR	RD - SURFACE SOIL SA	AMPLING / TEST PITS		
PROJECT Loohns Corning IF	:M	JOB NUMBER 3612102	148 03.01	DATE 12/8/2010
FIELD SAMPLE NUMBER	SC2513	ACTIVITY TIME START	END	BOTTLE TIME 1115
QC SAMPLES COLLECTED	SC2513Dup			
	SSOCIATED TRIP BLANK	RINSATE I		
TYPE OF SAMPLE DISCRETE X COMPOSIT  SAMPLE OBSERVATIONS  ODOR None  COLOR Dark Brown	SAN	X ALUMINIUM PAN Y S.S. SPATULA	DECON FLUIDS USED  DI WATER N2 PURGE POTABLE WATER  LIQUINOX OTHER	
ANALYTICAL PARAMETERS SOIL	METHOD <u>NUMBER</u> TCL-VOA TCL-VOA TCL-VOA	PRESERVATION METHOD 4 C 4 C 4 C	BOTTLE TYPE VOLUME SAMPLE REQUIRED COLLECTED (1) 4 oz jar k 40 mL vial w/ DI Water 40 mL vial w/ MeOH	
	ff container SC2513 avel,(GP) damp, no odor		AMPLED BY:	

NEW YORK
DAILY WORK REPORT
DATE 12/6/2010 WEATHER Cloudy, snow showers
PERSONNEL ON SITE
<u>OP-Tech</u>
Dave Foreman
Ken
Gary
SUBCONTRACTORS ON SITE
None
VISITORS
Matt Dunham NYSDEC
Angela Hickey Property Owner
WORK PERFORMED
Cleared site of debris
Relocate shed and AC unit
Hand dig to expose gas line and building foundation
Set up roll-offs for soil and debris
OTHER
OTHER
PROBLEMS ENCOUNTERED
SUBMITTED BY: Dave Lovejoy MACTEC E&C

	NEW YORK
	DAILY WORK REPORT
<b>DATE</b> 12/7/20	10 WEATHER Cloudy, snow showers
PERSONNEL ON	SITE
<u>OP-Tech</u>	
Dave	Foreman
Ken	
Gary	
SUBCONTRACTO	RS ON SITE
None	
\(\(\alpha\)	
VISITORS	NVCDEC
Matt Dunham	NYSDEC Bronath Owner
Angela Hickey	Property Owner
WORK PERFORM	ED
Started excavation	working west to east
	rom roll-off container
	tom samples from excavation
OTHER	
	g w/E. Sandin Guidelines indicate we should collect more bottom samples than
	Will try to get at least four bottom samples.
	The state of the s
PROBLEMS ENC	DUNTERED
None	

**MACTEC E&C** 

SUBMITTED BY:

Dave Lovejoy

NEW YORK
DAILY WORK REPORT
DATE 12/8/2010 WEATHER Cloudy, cold
PERSONNEL ON SITE
<u>OP-Tech</u>
Dave Foreman
Ken
Gary
SUBCONTRACTORS ON SITE
Surveyor
VISITORS
WORK PERFORMED
Excavation complete
Collected sample from roll-off container SC2513
Collected two bottom and two sidewall samples from excavation
Install demarkation material
Ship sample for overnight delivery
OTHER
OTHER
DRODI EME ENCOUNTEDED
PROBLEMS ENCOUNTERED None
SUBMITTED BY: Dave Loveing MACTEC E&C

	NEW YORK
	DAILY WORK REPORT
DATE 12/9/2010 WEATHER Clo	udy, cold
PERSONNEL ON SITE	
OP-Tech	
Dave Foreman	
Ken Gang	
Gary	
SUBCONTRACTORS ON SITE	
None	
VISITORS	
VIOLI ORG	
WORK PERFORMED	
Install vapor recovery well	
Install and compact 3ft of stone	
Install geotextile	
Install and compact 3" of sand	
OTHER	
DDODLEMS ENCOUNTEDED	
PROBLEMS ENCOUNTERED  None	
SUBMITTED BY: Dave Lovejoy	MACTEC E&C

NEW YORK
DAILY WORK REPORT
DATE 12/10/2010 WEATHER Cloudy, snow showers
PERSONNEL ON SITE
<u>OP-Tech</u>
Dave Foreman
Ken
Gary
SUBCONTRACTORS ON SITE
Chenango Contracting Inc. (liner installer)
VISITORS
None
WORK PERFORMED
Liner installed
Install 6" sand above liner
Install stone to original grade Set roadboxes for monitoring and vapor well
det roadboxes for monitoring and vapor well
OTHER
PROBLEMS ENCOUNTERED
None
SUBMITTED BY: Dave Loveing MACTEC E&C