

GARLOCK – KLOZURES SITE
WAYNE COUNTY
PALMYRA, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: C859001

Prepared for:

Garlock Sealing Technologies, LLC
1666 Division Street
Palmyra, New York 14522

Prepared by:

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Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
0	May 8, 2008	Original Submittal	
1	February 2009	Revised Submittal	
2	May 2015	Revised Submittal – Removed building pressurization monitoring	
3	July 2024	Updated to New NYSDEC Template	

JULY 2024

CERTIFICATION STATEMENT

I JEFFREY P. LAMBERT certify that I am currently a NYS registered Professional Engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).



P.E.

7/26/2024

DATE

TABLE OF CONTENTS

GARLOCK – KLOZURES SITE
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SITE MANAGEMENT PLAN

Table of Contents

1.0 INTRODUCTION 1

 1.1 General..... 1

 1.2 Revisions and Alterations 2

 1.3 Notifications..... 3

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS 5

 2.1 Site Location and Description..... 5

 2.2 Physical Setting..... 5

 2.2.1 Land Use..... 5

 2.2.2 Geology 6

 2.2.3 Hydrogeology 6

 2.3 Investigation and Remedial History 7

 2.4 Remedial Action Objectives 10

 Groundwater 10

 2.5 Remaining Contamination 10

 2.5.1 Soil 10

 2.5.2 Groundwater 10

 2.5.3 Soil Vapor 11

3.0 INSTITUTIONAL CONTROL PLAN..... 12

 3.1 General..... 12

 3.2 Institutional Controls..... 12

4.0 Monitoring and sampling plan 14

 4.1 General..... 14

 4.2 Site – Wide Inspection 14

5.0 OPERATION AND MAINTENANCE PLAN 16

 5.1 General..... 16

6.0 PERIODIC ASSESSMENTS/EVALUATIONS..... 17

 6.1 Climate Change Vulnerability Assessment 17

6.2 Green Remediation Evaluation..... 18

6.2.1 Timing of Green Remediation Evaluations..... 19

6.2.2 Remedial Systems 19

6.2.3 Building Operations..... 19

6.2.4 Frequency of System Checks, Sampling, and Other Periodic Activities..... 19

6.2.5 Metrics and Reporting 20

6.3 Remedial System Optimization..... 20

7.0. REPORTING REQUIREMENTS 22

7.1 Periodic Review Report 22

7.1.1 Certification of Institutional Controls..... 23

7.2 Corrective Measures Work Plan..... 24

7.3 Remedial System Optimization Report 24

8.0 REFERENCES 26

List of Tables

	<u>Page</u>
1-1 Notifications.....	5

List of Figures

1	Site Location Map
2	Site Layout Map

List of Appendices

A	Environmental Easement
B	Available Boring Logs
C	Excavation Work Plan
D	RI Soil Results Summary
E	RI Groundwater Results Summary
F	RI Soil Vapor Results Summary
G	Site Management Forms
H	Green Remediation Form
I	Remedial System Optimization Table of Contents
J	Request to Import/Reuse Fill Material Form

List of Attachments

1	Historical Garlock Facility PFAS Assessment Data
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List of Acronyms

BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulation
COC	Certificate of Completion
CP	Commissioner Policy
DER	Division of Environmental Remediation
ECL	Environmental Conservation Law
EWP	Excavation Work Plan
GHD	GHD Consulting Services Inc.
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
P.E. or PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
PRR	Periodic Review Report
QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
RP	Remedial Party
RSO	Remedial System Optimization
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVI	Soil Vapor Intrusion

ES EXECUTIVE SUMMARY

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

Site Identification: Site Identification No.: C859001 Garlock – Klozures Site, 1666 Division Street, Palmyra, New York 14522

Institutional Controls:	<ol style="list-style-type: none">1. The property may be used for industrial use;2. The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Wayne County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;3. Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in this SMP;4. All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;5. Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;6. Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;7. Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
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Site Identification:

Site Identification No.: C859001 Garlock – Klozures Site,
1666 Division Street, Palmyra, New York 14522

	<p>8. Vegetable gardens and farming on the Site are prohibited; and</p> <p>9. An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.</p>	
Engineering Controls:	None	
Inspections:		Frequency
1. Site-Wide Inspection		Annually
Monitoring:		
1. None		
Maintenance:		
1. Site-Wide Maintenance		As needed
Reporting:		
1. Periodic Review Report		Triennially – starting with 2024 submittal (2021 to 2024 reporting period)

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

1.0 INTRODUCTION

1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for the Klozures Site located in Palmyra, New York (hereinafter referred to as the “Site”). See Figures 1 and 2. The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C859001, which is administered by New York State Department of Environmental Conservation (NYSDEC or Department).

Garlock Sealing Technologies, LLC entered into a Brownfield Cleanup Agreement (BCA), Index #B8-0690-05-04 in August 2005 with the NYSDEC to remediate the Site. Figures showing the Site location and boundaries of this Site are provided in Figures 1 and 2. The boundaries of the Site are more fully described in the metes and bounds Site description that is part of the Environmental Easement provided in Appendix A.

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

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

It is important to note that:

- This SMP details the Site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC); and
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6 NYCRR Part 375 and the BCA (Index #B8-0690-05-04; Site #C859001) for the Site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Table 1-1 of this SMP.

This SMP was prepared by GHD Consulting Services Inc. (GHD), on behalf of Garlock Sealing Technologies, LLC, in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2009, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs that are required by the Environmental Easement for the Site.

1.2 Revisions and Alterations

Revisions and alterations to this plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shutdown of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the Site conditions. All approved alterations must conform with Article 145 Section 7209 of the Education Law regarding the application of professional seals and alterations. For example, any changes to as-built drawings must be stamped by a New York State Professional Engineer. In accordance with the Environmental Easement

for the Site, the NYSDEC project manager will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Notifications

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

1. 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6 NYCRR Part 375, and/or Environmental Conservation Law.
2. 7-day advance notice of any field activity associated with the remedial program.
3. 15-day advance notice of any proposed ground-intrusive activity to depths exceeding 1-foot below ground surface (bgs) pursuant to the Excavation Work Plan. If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above mentioned 60-day advance notice is also required.
4. Notice within 48 hours of any damage or defect to the foundation, structures, or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
5. Notice within 48 hours of any non-routine maintenance activities.

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

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

Table 1-1 includes contact information for the above notifications and a full listing of Site-related contact information. The information on this table will be updated as necessary to provide accurate contact information.

Table 1-1: Notifications*

<u>Name</u>	<u>Contact Information</u>	<u>Required Notification**</u>
Joshuah Klier – NYSDEC Project Manager	(585) 226-5357 joshuah.klier@dec.ny.gov	All Notifications
David Pratt – NYSDEC Project Manager's Supervisor	(585) 226-5449 david.pratt@dec.ny.gov	All Notifications
NYSDEC Site Control	DERSiteControl@dec.ny.gov	Notifications 1 and 8
Julia Kenney – NYSDOH Project Manager	(518) 402-7873 julia.kenney@health.ny.gov	Notifications 4, 6, and 7
Garlock Sealing Technologies, LLC; Carrie SanAngelo – Site Owner and Remedial Party	(315) 597-7311 carrie.Sanangelo@garlock.com	All Notifications
GHD Consulting Services Inc.; Jeffrey Lambert – Remedial Engineer	(860) 747-8245 jeffrey.lambert@ghd.com	As Needed
Lippes Mathias, LLP; Amy L. Reichhart – Remedial Party Attorney	(585) 770-7590 ext. 1810 areichhart@lippes.com	As Needed

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

** Note: Numbers in this column reference the numbered bullets in the notification list in this section.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The Site is located in Palmyra, Wayne County, New York and is identified as a portion of Parcel Number 64.111-00-839.937 on the Wayne County Tax Map (see Figure 2). The Site is an approximately 7-acre portion of the larger parcel and is bounded by: Red Creek and additional property owned by Garlock to the north, including a portion of the Site No. 3 BCP Site (#C859028); a commercial lumber yard to the south with Mud Creek farther south; additional property owned by Garlock, including a portion of the Site No. 3 BCP Site (#C859028) and the Gylon BCP Site (#C859027) to the east; and additional property owned by Garlock and off-Site residential properties along Division Street to the west (see Figure 2 – Site Layout Map). The boundaries of the Site are more fully described in Appendix A –Environmental Easement. The owner of the Site parcel at the time of issuance of this SMP is:

Garlock Sealing Technologies, LLC

2.2 Physical Setting

2.2.1 Land Use

The Site consists of the following: an approximately 116,000 square foot manufacturing building (known as Klozures); asphalt and concrete paved driving lanes, loading docks, and sidewalks; maintained landscaping areas, a stormwater management feature and associated State Pollutant Discharge Elimination System (SPDES) outfall to Red Creek; and minor wooded land adjacent to Red Creek. The Site is zoned industrial and is currently utilized by Garlock for industrial uses.

The properties adjoining the Site and in the neighborhood surrounding the Site primarily include commercial, residential, and vacant properties. The properties immediately south of the Site include commercial and vacant properties; the properties immediately north of the Site include Red Creek, additional Garlock-owned property, and a railroad corridor; the properties immediately east of the Site include additional Garlock-owned property in the BCP (Site #C859027 and Site #C859028); and the properties to the west of the Site include additional Garlock-owned property and residential properties.

2.2.2 Geology

Based on historical soil borings completed at the Site, it appears that the upper 2 to 3 feet of soil consists of a sandy fill material with minor amounts of sand and gravel, which is underlain by approximately 5 to 7 feet of reddish-brown sand and silt. A greenish-gray silt layer was identified beneath this sand and silt layer and extends to a depth of between 18 and 25 feet below ground surface (bgs), where weathered bedrock was identified. Available Site-specific boring logs are provided in Appendix B.

2.2.3 Hydrogeology

The Site is somewhat constrained hydraulically by Mud Creek and the Erie Canal to the south and Red Creek to the north. Groundwater flow on the Site moves generally north-northeast toward Red Creek, which is consistent with area topography and drainage characteristics and indicated that Red Creek is a local discharge zone for shallow groundwater. A general depiction of groundwater flow for the Garlock property is included in Appendix E.

Within the Site, the direction of groundwater flow is likely affected by heterogeneities in the subsurface. These heterogeneities would tend to create localized modifications in the direction of groundwater flow causing it to move at angles to the general north-northeast flow direction.

Based on historical observations, the depth to groundwater varies across the Site from approximately 5 to 15 feet bgs, with some identified depths to groundwater being as much as 25 feet bgs in isolated areas. There are currently no groundwater monitoring wells present on the Site.

2.3 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 – References.

Garlock was accepted into the New York State BCP on March 31, 2005 and completed at Remedial Investigation at the Site in accordance with the requirements of the Brownfield Cleanup Agreement (#B8-0690-05-04, August 2005). A summary of investigation is provided below. Complete information was previously provided in the Remedial Investigation Report (S&W Redevelopment of North America, LLC, November 2006).

Soil analytical results from the Remedial Investigation and previous Site studies indicate that impacts to Site soils are limited. The past use of the Site was primarily parking, wooded land, and historical storage of coal. With the exception of a few analytes, soil samples obtained from the Site generally meet NYSDEC Unrestricted Use Soil Cleanup Objectives (SCOs). A few semi-volatile organic compounds (SVOCs) exceed Unrestricted Use SCOs in surface soil samples, and only one analyte (benzo(a)pyrene) was detected in one surface soil sample (SS-1) at a concentration in excess of the applicable Industrial Use SCO (1.6 milligrams per kilogram [mg/kg] versus the Industrial Use SCO of 1.1 mg/kg). This sample was taken from the rear portion of the Site, in a location where coal had been historically stockpiled. The only other detected exceedances of the Industrial Use SCOs were for one SVOC, benzo(a)pyrene, at 8 to 10 feet bgs at two locations, B-13 and B-18. At the time, it was believed that the exceedances at depth were likely the result of past earth

moving activity at the Site. The detected concentrations were 1.4 mg/kg and 3.6 mg/kg, respectively, versus the Industrial Use SCO of 1.1 mg/kg.

Groundwater samples taken from the Site during the RI in 2006 detected exceedances of the New York State Technical and Operational Guidance Series (TOGS) Class GA drinking water standards for benzene (1 location), several polycyclic aromatic hydrocarbons (PAHs – 7 locations), total polychlorinated biphenyls (PCBs – 2 locations), and metals (10 locations). Based on the groundwater sampling methodology, the exceedances of metals, PCBs, and PAHs were believed to be related to particulates entrained in the groundwater samples. Based on the data and historical use of the Site, there did not appear to be an ongoing source of contamination to groundwater located at the Site.

Based on the data and findings of the Remedial Investigation, and an assessment of remedial alternatives, the selected and NYSDEC-approved remedy for the Site was No Further Action with institutional controls that prohibited groundwater use and limited future Site activities to industrial uses. In late 2006 when the initial SMP for the Site was approved, in the absence of a complete soil vapor intrusion (SVI) evaluation, the potential for SVI was addressed through a requirement to maintain a SVI mitigation system, which consisted of a requirement that the Klozures building's existing heating, ventilation, and air conditioning (HVAC) system maintain a minimum positive indoor air pressure of 0.002 inches of water column (inWC) in the production and office areas.

During the first quarter of 2015, Garlock undertook a comprehensive SVI evaluation at the Site to determine if mitigation was required. Garlock retained GHD to complete a SVI evaluation in accordance with the Soil Vapor Intrusion Evaluation Work Plan (GHD, January 29, 2015), which was approved by the NYSDEC and New York State Department of Health (NYSDOH) in advance.

The SVI evaluation methods and findings are summarized in the Klozures BCP Site Soil Vapor Intrusion Evaluation Report (GHD, May 2015; Appendix F). Based on the SVI evaluation sampling and analytical results for soil vapor, sub-slab, indoor air, and ambient (background) air samples, it was concluded that the need for monitoring or mitigating SVI in the Klozures building was not warranted. The NYSDEC and NYSDOH concurred that measures to address SVI were no longer necessary for the Site and that use of the building's existing HVAC system to address potential SVI could be discontinued. As a result of the SVI evaluation, the requirements for monitoring and maintaining positive pressure within the Klozures building as an SVI mitigation system were removed.

Groundwater sampling at the Garlock facility for perfluorinated chemicals (PFCs) analysis, more recently referred to as per- and polyfluorinated alkyl substances (PFAS), was requested by NYSDEC via a November 22, 2017 letter to Garlock. A work plan (GHD, February 20, 2018) was prepared and submitted to NYSDEC and subsequently approved. GHD collected groundwater samples from five groundwater monitoring wells at the facility, including MW-5, MW-24, MW-31, MW0610-5, and MW0911-01, on April 3, 2018 and submitted them for laboratory analysis of 24 PFCs via modified United States Environmental Protection Agency (USEPA) Method 537. Laboratory analytical results detected concentrations of Perfluorooctanoic Acid (PFOA) between an estimated 1.67 nanograms per liter (ng/L; MW-24) and 585 ng/L (MW-5) and Perfluorooctanesulfonic Acid (PFOS) between an estimated 0.183 ng/L (MW-31) and 3.93 ng/L (MW-5). The current NYSDEC ambient water quality guidance values are 6.7 ng/L for PFOA and 2.7 ng/L for PFOS. PFOA concentrations exceed the guidance value in groundwater samples taken from MW-5, MW-31, MW0610-5, and MW0911-01. PFOS concentrations exceed the guidance value in groundwater samples taken from MW- 5. None of the groundwater monitoring wells sampled are located on or upgradient of the Klozures BCP Site. Excerpts from the previously submitted analytical results report (GHD, May 15, 2018), consisting of summary tables and a figure depicting specific analytical results, are included in Attachment 1.

2.4 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

2.5 Remaining Contamination

2.5.1 Soil

As summarized in Section 2.3 above, historical investigations have detected minimal soil contamination in isolated areas and the NYSDEC approved a No Further Action remedy for the Site. Given the long history of use of the property by Garlock for industrial purposes, and given the contamination known to exist on the other two Garlock BCP Sites, Garlock proactively requires that the same Excavation Work Plan (EWP, Appendix C) be followed for excavations on any of the three BCP Sites, including this Site even though there is no established Engineering Control that needs to be maintained.

Figures and tables summarizing soil conditions at the Site at the time of the RI are included in Appendix D.

2.5.2 Groundwater

As summarized in Section 2.3 above, historical investigations detected some groundwater contamination in isolated areas, which was suspected to be attributable to entrained soil particles rather than Site-related groundwater impacts, and the NYSDEC approved a No Further Action remedy for the Site. Given the long history of use of the property by Garlock for industrial purposes, and given the contamination known to exist on the other two Garlock BCP Sites, it is possible that contaminated groundwater is

present on the Site and institutional controls are in place to mitigate that potential exposure route.

Figures and tables summarizing groundwater conditions at the Site at the time of the RI are included in Appendix E.

2.5.3 [Soil Vapor](#)

As discussed in Section 2.3 above, initial soil vapor sample results from 2005 resulted in the Site building maintaining a positive pressure as a means of SVI mitigation. However, based on laboratory analytical results of an additional evaluation performed in 2015, NYSDEC and NYSDOH approved the discontinuation of SVI mitigation at the Site. Historical sample results are included in the figures and tables in Appendix F.

3.0 INSTITUTIONAL CONTROL PLAN

3.1 General

Since remaining contamination exists at the Site, Institutional Controls (ICs) are required to protect human health and the environment. This IC Plan describes the procedures for the implementation and management of all ICs at the Site. The IC Plan is one component of the SMP and is subject to revision by the NYSDEC project manager.

This plan provides:

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

3.2 Institutional Controls

A series of ICs is required by the Environmental Easement to: (1) prevent future exposure to remaining contamination; and, (2) limit the use and development of the Site to industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the

Environmental Easement. The IC boundaries are the same as the Site boundary. These ICs are:

- The property may be used for: industrial use;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Wayne County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material, including the excavation of Site soil, must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- Vegetable gardens and farming on the Site are prohibited; and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

4.0 MONITORING AND SAMPLING PLAN

4.1 General

This Monitoring Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring Plan may only be revised with the approval of the NYSDEC project manager.

This Monitoring Plan describes the methods to be used for:

- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

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

- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7.0 of this SMP.

4.2 Site – Wide Inspection

Site-wide inspections will be performed at a minimum of once per year. These periodic inspections must be conducted when the ground surface is visible (i.e. no snow cover). Site-wide inspections will be performed by a qualified environmental professional as defined in 6 NYCRR Part 375, a Professional Engineer (PE) who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State. Modification to the frequency or duration of the inspections will require approval from the NYSDEC project manager. Site-wide inspections will also be performed after all severe weather conditions that may affect the Site. During these inspections, an inspection form will be completed as provided in

Appendix G – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- General Site conditions at the time of the inspection;
- Whether stormwater management systems, such as basins and outfalls, are working as designed;
- The Site management activities are being conducted; and
- Confirm that Site records are up to date.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure occurs at the Site, verbal notice to the NYSDEC project manager must be given by noon of the following day. In addition, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC implemented at the Site by a qualified environmental professional, as defined in 6 NYCCR Part 375. Written confirmation must be provided to the NYSDEC project manager within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. The remedial party will submit follow-up status reports to the NYSDEC within 45 days of the event on actions taken to respond to any emergency event requiring ongoing responsive action, describing and documenting actions taken to restore the Site.

5.0 OPERATION AND MAINTENANCE PLAN

5.1 General

The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems, or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

6.0 PERIODIC ASSESSMENTS/EVALUATIONS

6.1 Climate Change Vulnerability Assessment

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

This section provides a current vulnerability assessment that evaluates the vulnerability of the Site and/or engineering controls to severe storms/weather events and associated flooding. This section also identifies vulnerability assessment updates that will be conducted for the site in Periodic Review Reports.

- Flood Plain: Portions of the Site adjacent to Red Creek, as determined by a flood risk assessment map, would be at an elevated risk for experiencing flooding within the next 30 years.
- Sea Level Rise: The Site is not at risk of experiencing flooding due to sea level rise or storm surge events as the Site is located a significant distance, both horizontally and vertically, from the coast.
- Site Drainage and Storm Water Management: The Site does not have a significant risk of flooding during significant rain or snow melt events. On-Site stormwater is managed with existing stormwater features that readily drain to Red Creek via either overland flow or multiple stormwater outfalls. The majority of the Site is topographically higher than Red Creek.
- Erosion: No significant erosion has been identified on Site to date. There is potential for erosion at the northern border of the Site, adjacent to Red Creek or in the Site's stormwater management feature. This potential is monitored during routine Site inspections and appropriate actions taken when deemed necessary.

- High Wind: Currently, there are no areas or remedial systems on Site which would be susceptible to effects from high winds.
- Drought: The Site is at a very low risk of experiencing drought, according to the FEMA National Risk Index.
- Electricity: There are no components of the Site remedy or on-going maintenance and monitoring that require electricity.
- Spill/Contaminant Release: There are no chemicals or wastes generated at the Site as part of remediation and on-going monitoring.
- Wildfires: The Site is not at a significant risk of being impacted directly by wildfire activity

6.2 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including Site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. There was no remediation necessary for the productive reuse of the Site and, since maintaining and monitoring of building pressurization to prevent potential SVI has been discontinued with the approval of the NYSDEC and NYSDOH, there are no active remedial components that require energy usage, monitoring, or maintenance. The only on-going requirement is a yearly inspection of the Site, the timing of which is combined with the Site inspections required on Garlock's other BCP Sites for efficiency and to limit the amount of energy and resources required to complete.

This section, if remedies are implemented in the future, will provide an environmental footprint analysis of the remedy, as implemented at that time. This section of the SMP will also provide a summary of green remediation evaluations to be completed for the Site during Site management and reported in Periodic Review Reports (PRRs), if necessary in the future.

6.2.1 Timing of Green Remediation Evaluations

For major remedial system components, which there currently are none at the Site, green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), if and when necessary, or at any time that the NYSDEC project manager feels appropriate, (e.g. during significant maintenance events or in conjunction with storm recovery activities).

Modifications resulting from green remediation evaluations, if and when necessary, will be routinely implemented and scheduled to occur during planned/routine operation and maintenance activities after approval from the DER project manager. Reporting of these modifications will be presented in the PRR.

6.2.2 Remedial Systems

Remedial systems will be operated properly considering the current Site conditions to conserve materials and resources to the greatest extent possible. Consideration will be given to operating rates and use of reagents and consumables. Spent materials will be sent for recycling, as appropriate.

6.2.3 Building Operations

Structures including buildings and sheds will be operated and maintained to provide for the most efficient operation of the remedy, while minimizing energy, waste generation and water consumption.

6.2.4 Frequency of System Checks, Sampling, and Other Periodic Activities

Transportation to and from the Site, use of consumables in relation to visiting the Site in order to conduct system checks and/or collect samples, and shipping samples to a laboratory for analyses have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be

accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

6.2.5 Metrics and Reporting

As discussed in Section 7.0 and as shown in Appendix H, information on energy usage, solid waste generation, transportation and shipping, water usage and land use and ecosystems will be recorded to facilitate and document consistent implementation of green remediation during Site management and to identify corresponding benefits. A set of metrics has been developed and will be evaluated over time to ensure that green remediation actions are achieving the desired results.

6.3 Remedial System Optimization

A Remedial System Optimization (RSO) study will be conducted any time that the NYSDEC project manager or the remedial party requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

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

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

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

7.0. REPORTING REQUIREMENTS

7.1 Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the NYSDEC project manager beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted every third year, starting with the 2024 submittal, to the NYSDEC project manager or at another frequency as may be required by the NYSDEC project manager. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in Appendix A -Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment, and certification of all ICs required by the remedy for the Site.
- Results of the required annual Site inspections and severe condition inspections, if applicable.
- Description of any change of use, import of materials, or excavation that occurred during the certifying period.
- A Site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the Site-specific Remedial Action Work Plan (RAWP), ROD, or Decision Document;
 - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan;
 - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan;
 - An update to the climate change vulnerability assessment if Site or external conditions have changed since the previous assessment, and recommendations to address vulnerabilities.

- A summary of the Green Remediation evaluation, including a quantitative and qualitative overview of a Site's environmental impacts and recommendations to improve the remedy's environmental footprint, if necessary based on future Site changes. The PRR will include the completed Summary of Green Remediation Metrics form provided in Appendix H, if remedial systems are required at the Site in the future.
- The overall performance and effectiveness of the remedy.

7.1.1 Certification of Institutional Controls

Following the last inspection of the reporting period, a qualified environmental professional as defined in 6 NYCRR Part 375 or Professional Engineer licensed to practice and registered in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

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

- *The institutional control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*
- *Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the Site is compliant with the Environmental Easement.*
- *No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and*

- *The information presented in this report is accurate and complete.*
- Every 5 years, the following certification will also be added: *The assumptions made in the qualitative exposure assessment remain valid.*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as [Owner or Owner’s Designated Site Representative] for the Site.”

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager. The Periodic Review Report may also need to be submitted in hard-copy format if requested by the NYSDEC project manager.

7.2 Corrective Measures Work Plan

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

7.3 Remedial System Optimization Report

If an RSO is to be performed (see Section 6.3), upon completion of an RSO, an RSO report must be submitted to the NYSDEC project manager for approval. A general

outline for the RSO report is provided in Appendix I. The RSO report will document the research/ investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual Site model, and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs, etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager.

8.0 REFERENCES

6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

GHD Consulting Services Inc., 2015. Soil Vapor Intrusion Evaluation Letter Work Plan. January 29, 2015.

GHD Consulting Services Inc., 2015. Klozures BCP Site Soil Vapor Intrusion Evaluation. May 2015.

NYSDEC DER-10 – “Technical Guidance for Site Investigation and Remediation”.

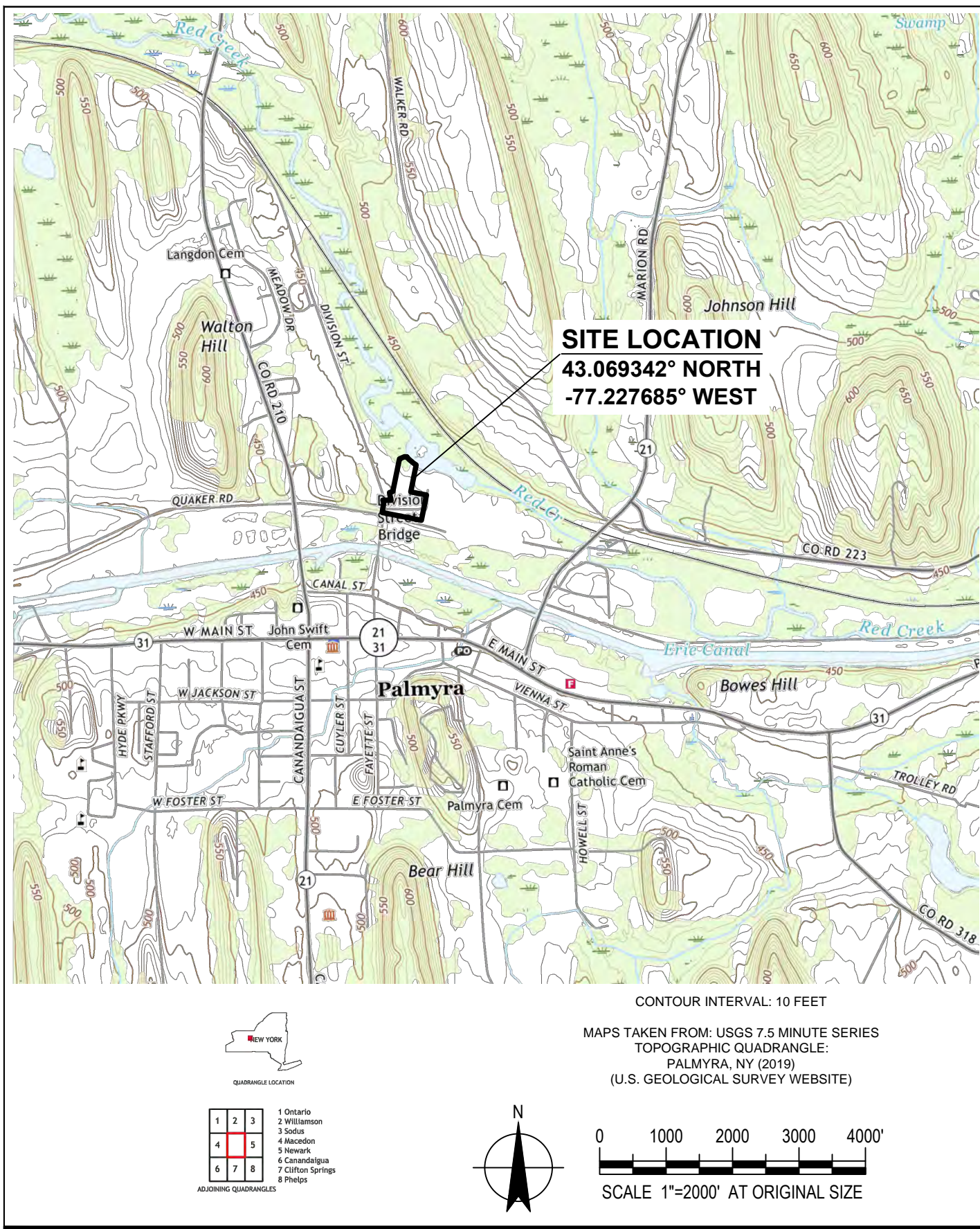
NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

NYSDEC, 2006. Certificate of Completion, Garlock Sealing Technologies Klozures, Site No. 859001.

S&W Redevelopment of North America, LLC, 2006. Remedial Investigation Report. November 2006, Revised December 2006.

S&W Redevelopment of North America, LLC, 2007. Soil Vapor Intrusion Evaluation. November 2007.

FIGURES

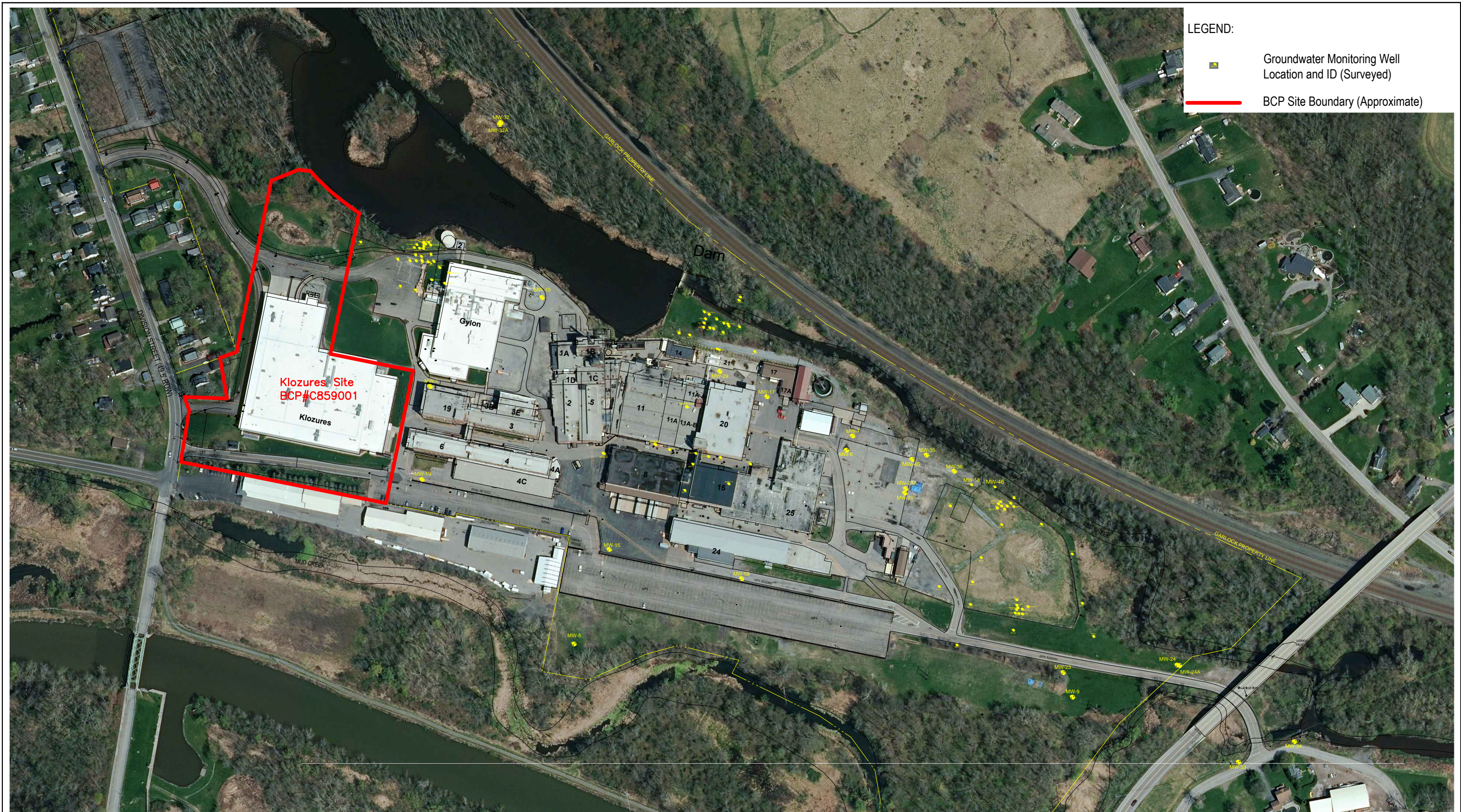


GARLOCK SEALING TECHNOLOGIES
 SITE MANAGEMENT PLAN
 KLOZURES BCP SITE (#C859001)

Project No. 12578577
 Date 01.2024

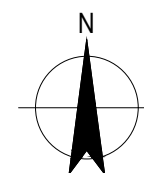
SITE LOCATION MAP

FIGURE 1



NOTES:

1. The BCP Site boundary and Garlock property boundary are approximate.
2. Site features based on field surveys provided by others.
3. Aerial images are 1-foot resolution true color imagery dated 2018 and taken from the NYS GIS Clearinghouse website.



0 125 250 375 500'
SCALE 1"=250' AT ORIGINAL SIZE



GARLOCK SEALING TECHNOLOGIES
SITE MANAGEMENT PLAN
KLOZURES BCP SITE (#C859001)

Project No. 12578577
Date 02.2024

SITE LAYOUT MAP

FIGURE 2

APPENDICES

APPENDIX A

ENVIRONMENTAL EASEMENT

*** DO NOT DETACH ***

Wayne County Clerk's Office

Recording Page

Receipt #:	172005	-----FEES-----	
Instrument #:	R9079679	Recording and Filing:	54.00
Date:	12/19/2006	Transfer Tax:	0.00
Time:	10:47A	Basic Tax:	0.00
Doc Type:	EASEMENTS	Local Tax:	0.00
1st OR:	GARLOCK SEALING TECH	Additional Tax:	0.00
1st EE:	GARLOCK SEALING TECH	Special Tax:	0.00
Town:	-	Withheld:	0.00
Pages:	8	Total:	54.00
Serial #:	-	-----MORTGAGE TAX-----	
Employee ID:	EB	Amount Taxed:	0.00
Transfer Tax #:	1285	-----TRANSFER TAX-----	
		Consideration Amount:	0.00

State of New York
County of Wayne

***** WARNING -** This sheet constitutes the Clerks endorsement required by
Section 319 of the Real Property Law of the State of New York.

Wayne
County Clerk

* *** DO NOT DETACH *** *
* *** THIS IS NOT A BILL *** *



Wayne County Clerk

R9079679
12/19/2006 10:47AM
Page: 1 of 8
EASE

ENVIRONMENTAL EASEMENT

THIS INDENTURE made this 22 day of November, 2006, between Garlock Sealing Technologies, LLC residing at (or having an office at) 1666 Division Street Palmyra, New York 14522(the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

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

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

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

WHEREAS, Grantor, is the owner of real property located in the Town of Palmyra, Wayne County, New York known and designated as a portion of the parcel on the tax map of the Wayne County Real Property as tax map parcel number 64.111-00-839.937, being the same as that property conveyed to Grantor by deed on July 19, 1929, and recorded on July 30, 1929 in the Land Records of the Wayne County Clerk at page 251, liber 288 of Deeds, comprised of approximately 7.0 acres, and hereinafter more fully described in Schedule A attached hereto and made a part hereof (the " Controlled Property"); and;

WHEREAS, the Commissioner does hereby acknowledge that the Department accepts this Environmental Easement in order to ensure the protection of human health and the environment and to achieve the requirements for remediation established at this Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36;and

NOW THEREFORE, in consideration of the covenants and mutual promises contained herein and the terms and conditions of Brownfield Cleanup Agreement Number B8-0690-05-04 (BCP Site No. C859001), Grantor grants, conveys and releases to Grantee a permanent Environmental Easement pursuant to Article 71, Title 36 of the ECL in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of



operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional Controls. The following controls apply to the use of the Controlled Property, run with the land are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees, and any person using the Controlled Property:

A. The Controlled Property may be used for industrial use as long as the following long-term engineering/institutional controls are employed:

(i) the use of the groundwater underlying the Controlled Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, is prohibited unless the user first obtains permission to do so from the Department; and

(ii) the excavation of site soil will be done in accordance with the Department approved Site Management Plan.

B. The Controlled Property may not be used for a higher level of use such as commercial use and the above-stated institutional controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

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

**This property is subject to an environmental easement
held by the New York State Department of
Environmental Conservation pursuant to Title 36 of
Article 71 of the Environmental Conservation Law.**

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

E. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury that the controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls employed at the Controlled Property were approved by the NYSDEC, and that nothing has occurred that would impair the ability of such control to protect the public health and environment or constitute a violation or failure to comply with any Site Management Plan for such controls and giving access to such Controlled Property to evaluate continued maintenance of such controls.

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



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

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

2. The right to give, sell, assign, or otherwise transfer the underlying fee interest to the Controlled Property by operation of law, by deed, or by indenture, subject and subordinate to this Environmental Easement;

5. Enforcement

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

B. If any person intentionally violates this environmental easement, the Grantee may revoke the Certificate of Completion provided under ECL Article 27, Title 14, or the Satisfactory Completion of Project provided under ECL Article 56, Title 5 with respect to the Controlled Property.

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

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar its enforcement rights in the event of a subsequent breach of or noncompliance with any of the terms of this Environmental easement.

6. Notice. Whenever notice to the State (other than the annual certification) or approval from the State is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing its County tax map number or the Liber and Page or computerized system tracking/identification number and address correspondence to:

Division of Environmental Enforcement
Office of General Counsel
New York State Department of Environmental Conservation
625 Broadway
Albany New York 12233-5500



Such correspondence shall be delivered by hand, or by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
8. Amendment. This environmental easement may be amended only by an amendment executed by the Commissioner of the New York State Department of Environmental Conservation and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
9. Extinguishment. This environmental easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

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

Grantor's Name

By: _____

Title: _____

Date: _____

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

By: _____

Denise M. Sheehan, Commissioner



Wayne County Clerk

R9079679

12/19/2006 10:47AM

Page: 5 of 8

EASE

Grantor's Acknowledgment

STATE OF NEW YORK)
COUNTY OF Monroe) ss:

On the 22nd day of November, in the year 2007, before me, the undersigned, personally appeared Don Pomeroy, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Josephine Colzo
Notary Public - State of New York

JOSEPHINE COLZO
Notary Public, State of N.Y., Monroe Co.
My Commission Expires

April 30, 2007

Grantee's Acknowledgment

STATE OF NEW YORK)
COUNTY OF Monroe) ss:

(See next page)

On the 22nd day of November, in the year 2007, before me, the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public - State of New York

JOSEPHINE COLZO
Notary Public, State of N.Y., Monroe Co.
My Commission Expires



Wayne County Clerk

R9079679

12/19/2006 10:47AM

Page: 6 of 8

EASE

Grantee's Acknowledgment

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

On the 18th day of December, in the year 2006 before me, the undersigned, personally appeared Deise M. Sheehan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Mark D. Sanza

Notary Public - State of New York

MARK D. SANZA
Notary Public, State of New York
No. 02SA6010701
Qualified in Albany County
Commission Expires July 20, 2010

R/R to: Christopher Rockwell
c/o Garlock Sealing Technologies, LLC
1666 Division Street
Palmyra, NY 14522



Wayne County Clerk

R9079679

12/19/2006 10:47AM

Page: 7 of 8

EASE

SCHEDULE A

Commencing at point in the easterly right of way of Division Street at its intersection with the division line between the lands of tax account number 064.111-00-839.937 on the south and lands of tax account number 064.111-08-765.906 on the north, said point being the POINT OF BEGINNING;

- 1) thence S 87°40'20" E along said division line a distance of 117.01 feet to a angle point;
- 2) thence N 9°57'45" W continuing along said division line a distance of 112.83 feet to a point in the southerly boundary of lands of tax account number 064.111-08-765.913;
- 3) thence N 70°33'15" E along said southerly boundary a distance of 48.00 feet to a point;
- 4) thence N 11°29'58" E through the lands of tax account number 064.111-00-839.937 a distance of 475.38 feet to a point;
- 5) thence N 68°42'57" E continuing through the lands of tax account number 064.111-00-839.937 a distance of 81.27 feet to a point;
- 6) thence S 80°57'36" E continuing through the lands of tax account number 064.111-00-839.937 a distance of 24.02 feet to a point;
- 7) thence S 47°15'15" E continuing through the lands of tax account number 064.111-00-839.937 a distance of 146.96 feet to a point;
- 8) thence S 58°03'08" E continuing through the lands of tax account number 064.111-00-839.937 a distance of 35.63 feet to a point;
- 9) thence S 11°29'58" W continuing through the lands of tax account number 064.111-00-839.937 a distance of 386.30 feet to a point;
- 10) thence S 78°30'02" E continuing through the lands of tax account number 064.111-00-839.937 a distance of 229.65 feet to a point;
- 11) thence S 11°29'58" W continuing through the lands of tax account number 064.111-00-839.937 a distance of 367.98 feet to a point in the northerly boundary of lands of tax account number 064.111-00-821.867;
- 12) thence N 78°31'45" W along said northerly boundary a distance of 570.83 feet to a point in the aforementioned easterly right of way of Division Street;
- 13) thence N 9°31'15" E along said right of way a distance of 83.07 feet to a point;
- 14) thence N 9°31'15" E continuing along said right of way a distance of 56.90 feet to a point;
- 15) thence N 19°26'45" W continuing along said right of way a distance of 40.33 feet to the POINT OF BEGINNING.

The above described parcel contains 7.06 acres (307585 sq. ft.)

APPENDIX B

AVAILABLE SOIL BORING LOGS

KEY TO SYMBOLS

Symbol Description

Symbol Description

Strata symbols

Soil Samplers



Asphalt

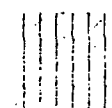


Auger

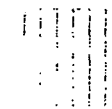
Crushed Stone



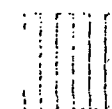
Fill



Clayey Silt



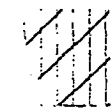
Silt



Silt and Clay



Clayey Silt / Highly Weathered Shale



Clay and Silt

Topsoil

Sand

isc. Symbols

Water table at date indicated

Symbol Description

Standard penetration test

Notes:

1. These subsurface logs form a part of the geotechnical report, and should not be separated from the report.
2. The information presented on these subsurface logs are subject to the limitations, discussions and conclusions presented in the report.
3. The subsurface conditions between the subsurface exploration locations, including topsoil and fill thicknesses, will vary.
4. The subsurface logs should not be used as the sole means of estimating material quantities, including fill, topsoil and/or organic subsoils, for bidding purposes. Discussions presented in this report of subsurface conditions may aid in estimating quantities. The contractor is ultimately responsible for performing any additional site observations/explorations to aid in bidding.

HOLE NO. B-1 SURF. ELEV. 99.6
PROJECT RCH-95-260 LOCATION Palmyra
New Manufacturing Plant New York
CLIENT Garlock DATE STARTED 10/27/95 COMPLETED 10/27/95

DEPTH (FT)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0									3" ASPHALT	
		S-1	1	2	2	3	4		0.25	
									6" Crushed Stone	
									0.75	
		S-2	2	2	2	2	4		Grey CLAYEY SILT, trace fine sand (moist, loose) FILL	No recovery for sample No. S-2.
									5.0	
5		S-3	2	2	2	2	4		Black and reddish brown SAND, some fine Gravel/Slag, little Clayey Silt, trace asphalt (moist, loose) FILL	
									7.5	
		S-4	3	5	6	9	11			
		S-5	8	15	16	16	31		Greenish-grey CLAYEY SILT, little Sand (moist, firm) contains partings of light grey clayey silt (moist, compact)	
		S-6	15	38	50	-	88		color changes to dark grey (dry)	
		S-7	13	11	12	6	23			
10									20.5	
									Boring complete at 20.5 feet.	Free standing water was not encountered at boring completion.

SURF. ELEV. _____ 99.4

PROJECT RCH-95-260

LOCATION Palmyra

New Manufacturing Plant

New York

CLIENT Garlock

DATE STARTED 10/30/95 COMPLETED 10 30 '95

[illegible]

NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb

FALLING 30 " PER BLOW

WITNESSED BY Kurt Miller

SHEET 1 OF 1

CLIENT Garlock DATE STARTED 10/27/95 COMPLETED 10/27/95

[illegible]

SHEET 1 OF 1

HOLE NO. B-3

SURF. ELEV.

PROJECT Garlock Company

LOCATION Palmyra, New York

Bldg. 25 Addition

RCH-95-023

CLIENT LaBella Associates

DATE STARTED 2/7/95 COMPLETED 2/7/95

DEPTH FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	13	4	3	2	7		ASPHALT	No split-spoon recovery for Sample No. 2.
		2	2	1	1	1	2		Reddish brown-black ASH and CINDERS (moist, loose) FILL	
		3	2	3	3	3	6		(wet)	
5		4	3	2	1	2	3			
		5	1	1	1	3	2		8" Black SILT (possible buried topsoil) (very moist)	
10									Brown SILT and CLAY, trace sand (moist, very soft)	
		6	1	2	3	3	5		contains seams of brown silt (very moist, soft)	
15									Light brown CLAY and SILT, trace sand (wet, very soft)	
		7	1	1	1	1	2			
20										
		8	2	14	11	11	25		Gray highly weathered ROCK Fragments (dry, firm)	
25									Boring complete at 25.0 feet.	Free standing water was encountered at 6.6 feet at boring completion.
30										
35										
40										

NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb

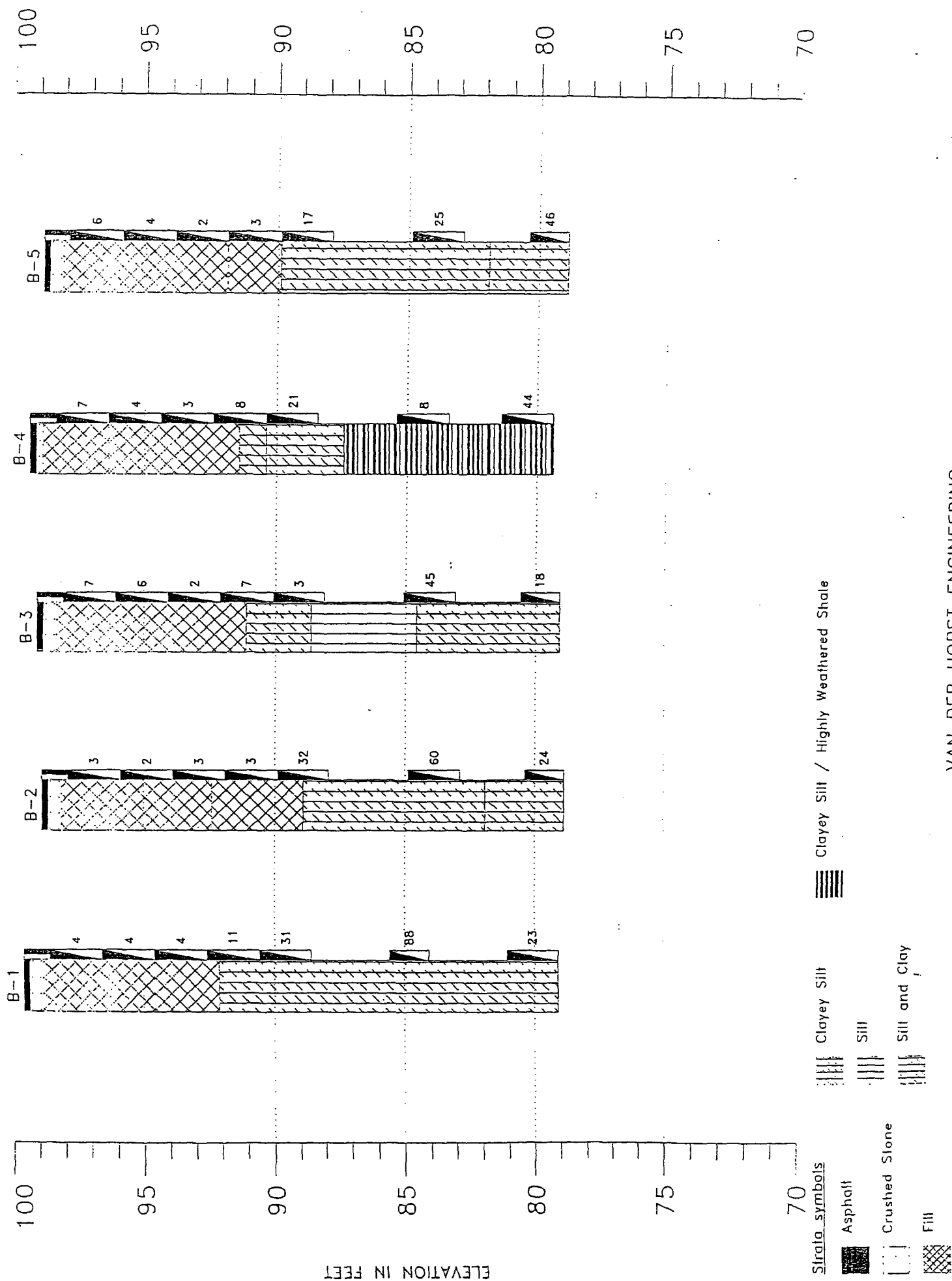
FALLING 30 " PER BLOW

LOGGED BY Matthew J. Billy

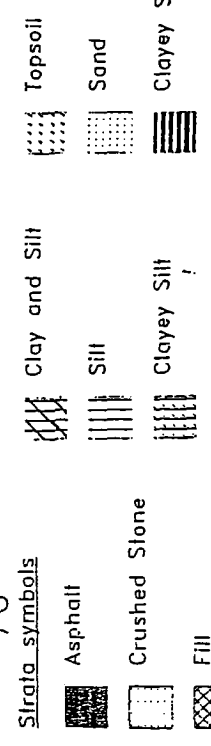
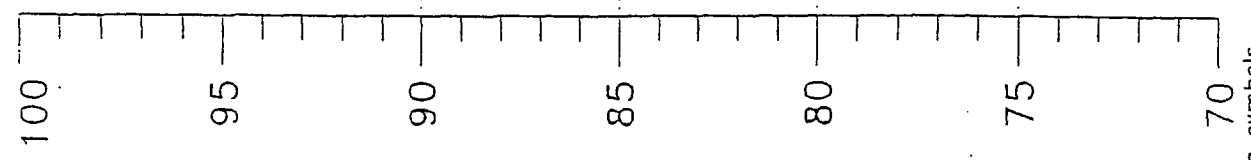
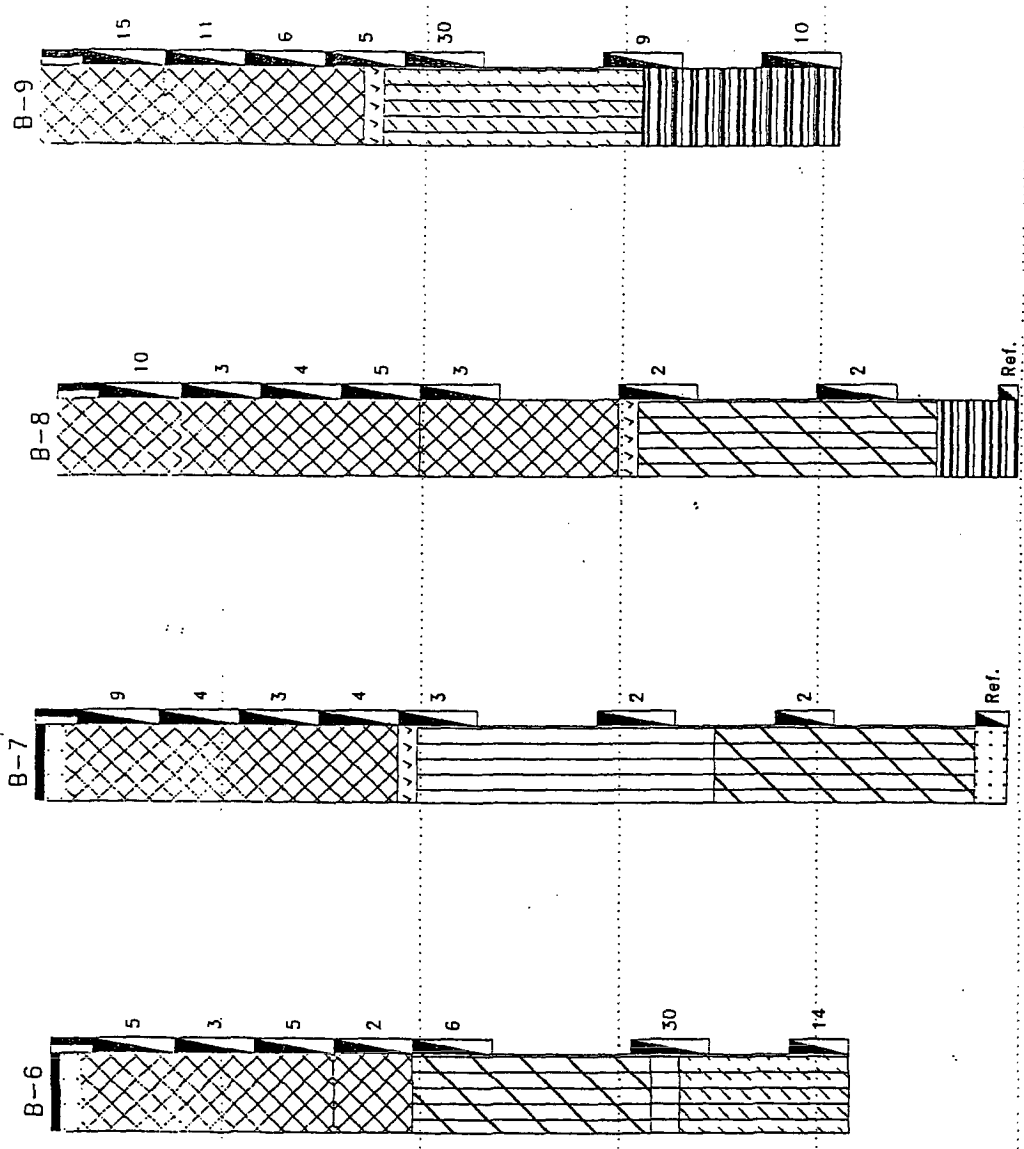
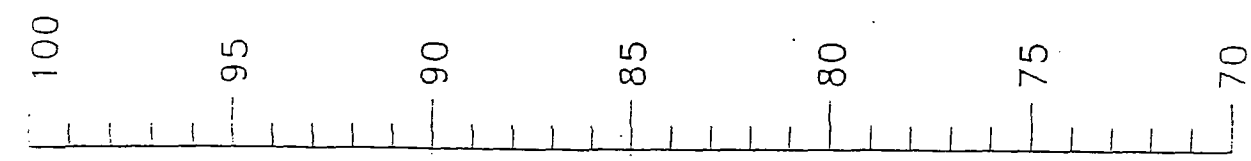
SHEET 1 OF 1

APPENDIX C: Boring Profiles

LOG OF BORINGS RCH-95-260



ELEVATION IN FEET



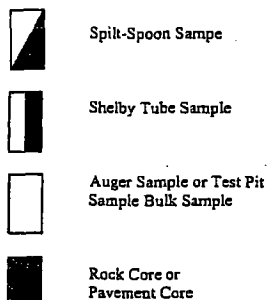
**Appendix B: Test Boring Logs
(December 2005)**

**TIERNEY
GEOTECHNICAL
ENGINEERING**

HOLE NO. B-1 SURF. ELEV. _____ PROJECT NO.
 PROJECT TGE. XX. XXX LOCATION _____
 CLIENT _____
 DATE STARTED _____ COMPLETED _____

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	2	2	3	5	5		SAND and GRAVEL, trace silt (moist, loose)	Water was encountered at 2.0 feet
2.5		2							Gray SHALE, soft to medium hard, some fractures	Run no. 1 2.5 ft to 5.0 ft Recovery 95% RQD 50%
5										

SAMPLE SYMBOLS



PARTICLE SIZE

Identification of soil type is made on the basis of an estimate of particle sizes, and in the case of fine grained soils, also on the basis of plasticity.

SOIL TYPE	SOIL PARTICLE SIZE	DESCRIPTION
Boulder	> 12"	
Cobble	12" to 3"	
Gravel -course	3" to 3/4"	Course Grained (Granular)
Gravel -fine	3/4" to No 4	
Sand -course	No 4 to No 10	
Sand -medium	No 10 to No 40	
Sand -fine	No 40 to No 200	
Silt -Non Plastic (Granular)	< No 200	Fine Grained
Clay-Plastic (Cohesive)	< No 200	

QUANTIFYING SOIL MIXTURES

The following terms are used in classifying soils consisting of mixtures of two or more soil types. The estimates are based on weight of total sample.

TERM	PERCENT OF TOTAL SAMPLE
"and"	35% to 50%
"some"	20% to 35%
"little"	10% to 20%
"trace"	less than 10%

When sampling gravelly soils with a standard split-spoon sampler, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.

RELATIVE COMPACTNESS AND CONSISTENCY

The relative compactness or consistency is described in accord with the following terms.

GRANULAR SOILS		COHESIVE SOILS	
Term	Blows per Foot (SPT N-value)	Term	Blows per Foot (SPT N-value)
Loose	< 11	Very Soft	< 3
Firm	11 to 30	Soft	3 to 5
Compact	31 to 50	Medium	5 to 15
Very Compact	> 50	Stiff	15 to 25
		Hard	> 25

Large particles encountered in the soils during sampling, such as large gravel, cobbles and boulders, will often significantly influence the blows per foot (SPT N-values) recorded during the penetration test.

SOIL DEPOSITION STRUCTURE

The following terms are used to describe the deposition structure of the soils, particularly fine grained soils.

TERM	DEFINED BY
Varved	horizontal uniform layers or seams of soils(s).
Layer	soil deposit more than 6" thick.
Seam	soil deposit less than 6" thick
Parting	soil deposit less than 1/4" thick
Laminated	irregular, horizontal and angled seams and partings of soil(s).

ROCK CLASSIFICATION TERMINOLOGY

CLASSIFICATION	TERM	DEFINED BY
Hardness	Soft Medium Hard Hard Very Hard	Scratched by fingernail Scratched easily by pocketknife Scratched with difficulty by pocketknife Cannot be scratched by a pocketknife
Weathering	Very Weathered Weathered Sound	Estimated from the relative amounts of disintegration (of the rock), iron staining, rock core recovery, soil seams, etc.
Bedding	Laminated Thin Bedded Bedded Thick Bedded Massive	Natural breaks in the rock layers
		< 1" thick 1" to 4" thick 4" to 12" thick 12" to 36" thick > 36" thick
Fracturing	Quantitative descriptions such as "highly", "moderately" or "slightly" fractured, depths over which fractures are noted, and relative angles of the fractures (if applicable).	Fracturing refers to natural breaks in the rock core. Breaks may be oriented parallel to the horizontal rock layers, or at some angle to the (horizontal) rock layers.

Symbol Description

Strata symbols



TOPSOIL



Silty SAND



SILT



Sandy SILT



SAND and SILT



Decomposed Bedrock



ASPHALT



FILL



SAND with Gravel



Silty SAND with ROCK FRAGMENTS



GRAVEL and SAND

Symbol Description



Clayey SILT



SAND

Misc. Symbols



Water table at date indicated



Water table at date indicated

Soil Samplers



Standard penetration test



Auger

Notes:

These subsurface logs form a part of the geotechnical report and should not be separated from the report.

The information presented on these subsurface logs are subject to the limitations, discussions and conclusions presented in the report.

The subsurface conditions between the subsurface exploration locations, including topsoil and fill thicknesses, will vary.

The subsurface logs should not be used as the sole means of estimating material quantities, including fill, topsoil and/or organic subsoils, for bidding purposes. Discussions presented in this report of subsurface conditions may aid in estimating quantities. The contractor is ultimately responsible for performing any additional site observations/explorations to aid in bidding.

Herney
Geotechnical
Engineering

HOLE NO. B-1 SURF. ELEV. 446 PROJECT NO.: TGE.05.1
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-16-05 COMPLETED 12-16-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	2	3	3	4	6		Dark-Brown SILT mixed with ORGANICS/ROOTS (wet)	
		2	4	5	5	5	10		TOPSOIL	
		3	3	3	10	15	13		Brown Silty SAND, trace roots/organics (wet)	
5		4	17	20	26	37	46		grades to no roots/organics (loose)	
		5	13	18	38	50	56		Brown Silty SAND, little Gravel (wet, firm)	
10									Brown to Grayish-Brown SILT, trace clay, trace gravel, trace sand contains seams of sand (wet, compact) grades to little Clay (very moist, very compact)	Free standing wate was not encountere upon boring completion.
15									GLACIAL TILL	
20									Test boring was completed at a depth of 11 feet.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb

WT. FALLING 30 " PER BLOW

LOGGED BY M.A.Fiorillo, EIT

SHEET 1 OF 1

Ierney
Geotechnical
Engineering

HOLE NO. B-2 SURF. ELEV. 445 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-16-05 COMPLETED 12-16-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	2	3	2	2	5		Dark-Brown Silty SAND mixed with ORGANICS/ROOTS (wet, loose)	
		2	10	21	16	20	37		TOPSOIL mixed with ORGANIC SUBSOIL	
5		3	10	15	16	16	31		Brown Sandy SILT, little Gravel	
		4	26	28	35	40	63		(wet, compact)	
		5	20	20	30	29	50		Reddish-Brown SILT, trace to little Clay, trace to little Gravel, trace sand (very moist, compact) color changes to Brown grades to trace clay (very compact) grades to little Clay contain seams of fine sand (moist, compact) grades to trace clay, trace sand, trace gravel (very compact)	
10										
		6	22	28	34	37	62		grades to little fine sand (very moist)	
15										
		7	17	30	37	47	67		GLACIAL TILL	
20									Test boring was completed at a depth of 20 feet.	Free standing water was not encountered upon boring completion.
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Tierney
Geotechnical
Engineering


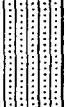

HOLE NO. B-3 SURF. ELEV. 447 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-15-05 COMPLETED 12-15-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	3	4	3	6	7		Dark-Brown SILT mixed with ORGANICS/ROOTS (wet)	
		2	5	5	15	18	20		TOPSOIL	
5		3	13	43	35	40	78		Brown SILT and SAND, little Gravel (very moist)	Cobble and/or boulders were encountered below depth of 4.5 feet. REF.-Sample refusal Difficult to auger below a depth of 6 feet.
		4	33	50			REF.		Reddish-Brown SILT and SAND, little Gravel/Rock Fragments (very moist)	
		5	37	50/5			REF.		Reddish-Brown Sandy SILT, some Gravel/Rock Fragments (very moist, very compact)	
10									Reddish-Brown Sandy SILT, some Gravel/Rock Fragments (very moist, very compact)	
									Reddish-Brown Sandy SILT, some Gravel/Rock Fragments (very moist, very compact) (wet)	
15		6	52	38	45	60	83		GLACIAL TILL	Free standing water was not encountere upon boring completion.
									Greenish-Gray SILT, little Rock Fragments, trace clay, trace sand (moist, very compact) DECOMPOSED BEDROCK	
20									Test boring was completed at a depth of 16 feet.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-4 SURF. ELEV. 452 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-19-05 COMPLETED 12-19-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	5	3	3	2	6		4" ASPHALT	
									Dark-Brown SAND and GRAVEL, little Silt (very moist)	
		2	3	5	6	10	11			
									FILL	
5		3	12	26	50		76		Brown Silty SAND, little Gravel	
		4	80	41	30	60	71		(very moist) (firm) (very compact)	Cobbles and/or boulders were encountered below feet.
		5	65	50/4			REF.			
10									Brown Sandy SILT, little Gravel (moist, very compact) GLACIAL TILL	Free standing water was not encountered upon boring completion.
									Test boring was completed at a depth of 8.8 feet with sample refusal.	
15										
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Herney
Geotechnical
Engineering

HOLE NO. B-5 SURF. ELEV. 439 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-15-05 COMPLETED 12-15-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	2	3	2	4	5		Dark-Brown SILT mixed with ORGANICS/ROOTS (wet)	
		2	5	6	14	18	20		TOPSOIL	
5		3	10	22	24	20	46		Brown Silty SAND, little Gravel (wet)	
		4	13	18	22	20	40		Greenish-Gray SILT, trace sand, trace to little Gravel	
		5	10	27	40	55	67		(moist) contain seams of color brown (compact) POSSIBLE GLACIAL TILL	
10									Greenish-Gray SILT, little Rock Fragments, trace sands, trace clay (moist, very compact) DECOMPOSED BEDROCK	
									Test boring was completed at a depth of 10 feet.	Free standing wate was not encountere upon boring completion.
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb

WT. FALLING 30 " PER BLOW

LOGGED BY M.A.Fiorillo, EIT

SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-6 SURF. ELEV. 445 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-15-05 COMPLETED 12-15-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	5	3	4	5	7		Dark-Brown SILT mixed with ORGANICS/ROOTS (wet)	
		2	6	7	9	13	16		TOPSOIL	
5		3	12	21	25	30	46		Reddish-Brown Silty SAND, some Gravel/Rock Fragments (wet)	Cobbles and/or boulders were encountered below depth of 4 feet.
		4	40	50			REF.		Reddish-Brown to Brown Sandy SILT, little Gravel (wet, firm)	REF.-Sample refusal
		5	48	50			REF.			
10									Brown Sandy SILT, little Gravel/Rock Fragments (very moist, compact) (wet)	
		6							GLACIAL TILL	
15									Test boring was completed at a depth of 13 feet with sample and auger refusal upon an apparent boulder.	No recovery for sample no.6. Free standing water was not encountered upon boring completion.
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-7 SURF. ELEV. 443 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-21-05 COMPLETED 12-22-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	2	2	2	3	4		6" TOPSOIL	
		2	7	6	15	18	21		Brown Silty SAND, trace roots (very moist, loose) (firm)	
5		3	20	16	21	20	37		Brown SILT, some Sand, little to some Gravel/Rock Fragments (moist, compact)	Cobbles and/or boulders were encountered below depth of 4 feet.
		4	18	20	19	21	39			
		5	9	5	9	28	14		Grayish-Brown SILT, trace sand, trace roots (moist, compact) (moist, firm)	
10		6	50/3							Difficult to auger below a depth of 1 feet.
									Greenish-Gray SILT, little rock fragments, trace clay (moist) (wet, compact)	
15		7	6	13	26	37	39		DECOMPOSED BEDROCK	Hydropunch was advanced at boring completion.
									Test boring was completed at a depth of 16 feet.	Free standing water was not encountered with augers to a depth of 13 feet.
										Free standing water was encountered inside the augers a depth of 10 feet upon boring completion.
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb

WT. FALLING 30 " PER BLOW

LOGGED BY M.A.Fiorillo, EIT

SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-8 SURF. ELEV. 449 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-15-05 COMPLETED 12-15-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	8	3	3	2	6		6" TOPSOIL	Encountered auger refusal upon an apparent boulder feet. Boring was relocated approximately 6 f to the south and redrilled to propo depth. Cobbles and/or boulders were encountered below depth of 4 feet.
		2	7	10	9	7	19		Dark-Brown SILT mixed with Organics/Roots (wet, loose)	
		3	31	28	30	35	58		ORGANIC SUBSOIL	
5		4	24	48	50		98		Brown GRAVEL, some Silty SAND (very moist, firm)	
		5	16	12	10	20	22		Brown Sandy SILT, some Gravel/Rock Fragments (moist, very compact)	
10									grades to SAND and SILT, little Gravel (very moist, very compact)	Free standing water was not encountere upon boring completion.
									GLACIAL TILL	
									Greenish-Gray SILT, some Gravel/Rock Fragments, trace to little Sand, trace clay (very moist, firm)	
15		6	12	15	16	18	31		(wet, compact)	
									DECOMPOSED BEDROCK	
20		7	12	20	17	13	37		Test boring was completed at a depth of 22 feet.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

HOLE NO. B-9 SURF. ELEV. 446 PROJECT NO.: TGE.05.
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-15-05 COMPLETED 12-16-05.

[illegible]





N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

HOLE NO.	B-9A	SURF. ELEV.	446	PROJECT NO.:	TGE.05
PROJECT	Klozure Building		LOCATION Palmyra, New York		
CLIENT	Garlock Seal. Tech.				
DATE STARTED	12-16-05	COMPLETED	12-16-05.		

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

**Geotechnical
Engineering**

HOLE NO. B-10 SURF. ELEV. 450 PROJECT NO.: TGE.05.0
 PROJECT Klozure Building LOCATION Palmyra, New York
 CLIENT Garlock Seal. Tech.
 DATE STARTED 12-14-05 COMPLETED 12-15-05.

DEPTH (FEET)	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
		0-6	6-12	12-18	18-24	N			
0	1	6	3	4		7		4" ASPHALT PAVEMENT	
	2	4	4	5	7	9		Brown SAND and GRAVEL, little Silt (moist)	
5	3	8	7	11	24	18		FILL	
	4	23	25	25	34	50		Reddish-Brown SILT, little Sand, little Gravel, trace clay (moist)	Cobbles and/or boulders were encountered below depth of 4 feet.
	5	55	50/4			REF.		grades to little Rock Fragments (firm)	
10								Brown SAND, little Silt, trace to little Gravel (wet, compact)	
								grades to Silty SAND, little rock Fragments contain seams of medium- coarse sand (wet)	
15	6	35	50/4			REF.			
20	7	50				REF.		color changes to Grayish- Brown	
								GLACIAL TILL	
								Test boring was completed at a depth of 19.5 feet with spoon refusal.	Free standing wate was not encountere upon boring completion. Borehole was left open overnight and free standing wate was encountered at depth of 14.9 feet the next day.
25									
30									
35									
40									

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb






WT. FALLING 30 " PER BLOW

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SHEET 1 OF 1

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HOLE NO. B-11 SURF. ELEV. 449 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-20-05 COMPLETED 12-21-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	10	4	7		11		4" ASPHALT PAVEMENT	
									Brown SAND and GRAVEL, little Silt (moist)	
		2	6	9	9	14	18			
									FILL	
5		3	7	9	16	7	25		Brown Silty SAND, some Gravel, trace silt (wet, firm)	
										
		4	8	11	9	6	20			
									Brown SAND and GRAVEL, trace silt (very moist, firm)	
		5	24	10	15	20	25			
10		6	50				REF.		Greenish-Gray SILT, trace to little fine Gravel/Rock Fragments (moist) (very moist, firm) (moist) (very compact)	REF.-Sample refused
15		7	42	35	53		88			Difficult to auger below a depth of 10 feet.
20		8	45	50/4			REF.			
		9	21	50			REF.		DECOMPOSED BEDROCK	Hydropunch was advanced at boring completion.
25									Test boring was completed at a depth of 24 feet with spoon refusal.	Free standing water was encountered at depth of 22 feet u boring completion.
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

HOLE NO. B-12 SURF. ELEV. 447 PROJECT NO.: TGE.05.
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-13-05 COMPLETED 12-14-05.

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

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HOLE NO. B-13 SURF. ELEV. 444 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-12-05 COMPLETED 12-13-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	3	3	4	5	7		6" TOPSOIL	
		2	10	15	19	12	34		Greenish-Gray Clayey SILT, trace fine Sand (very moist, medium) (moist, hard) grades to Dark-Brown TOPSOIL	Cobbles and/or boulders were encountered below depth of 4 feet Topsoil found in sample no. 3 was probable "fallen" into the spoon fr the top.
5		3	20	25	50/4		REF.			
		4	39	65			REF.		POSSIBLE FILL	
		5	20	24	50/4		REF.		Greenish-Gray SILT, trace to little Clay, trace rock fragments (moist)	
10		6	24	38	50/5		REF.			Difficult to auge below a depth of feet.
15										
		7	75				REF.		DECOMPOSED BEDROCK	Free standing wat was encountered at depth of 8 feet up boring completion Borehole was left overnight and free standing water was encountered at a depth of 7 feet th next day.
20									Test boring was completed at a depth of 18.5 feet with spoon refusal.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

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HOLE NO. B-14 SURF. ELEV. 451 PROJECT NO.: TGE.05.1
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-13-05 COMPLETED 12-13-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	8	8	6		14		4" ASPHALT	Cobbles and/or boulders were encountered below depth of 6 feet
		2	4	3	3	3	6		Brown GRAVEL and SAND, little Silt (moist)	
		3	8	11	13	23	24		FILL	
5		4	27	35	40	50	75		Reddish-Brown SAND, little Gravel, trace to little Silt (moist, loose)	
		5	20	34	46	48	80		(firm)	
10									Reddish-Brown Sandy SILT, little Gravel (moist, very compact) contain seams of medium-coarse sand (very moist, wet)	Free standing water was not encountered upon boring completion.
		6	85				REF.		grades to SILT and SAND, little Gravel (moist)	
15									grades to Cobble/Boulder Fragments	
		7	50/2				REF.		GLACIAL TILL	
20									Test boring was completed at a depth of 17.2 feet with spoon and auger refusal.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb








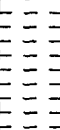

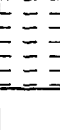

WT. FALLING 30 " PER BLOW

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
HOLE NO. B-15 SURF. ELEV. 450 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-13-05 COMPLETED 12-13-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	5	3	3		6		4" ASPHALT	
		2	5	5	11	14	16		Brown GRAVEL and SAND, little Silt (moist)	
5		3	3	5	14	14	19		FILL	
		4	26	28	50/5		REF.		Reddish-Brown SILT and SAND, little Gravel (very moist)	Cobbles and/or boulders were encountered below depth of 6 feet
		5	100/ 5				REF.		Brown Silty SAND, some Gravel (very moist) (wet, firm)	
10									Brown Silty SAND, some Gravel/Rock Fragments (very moist)	
		6	39	42	28	50/5	70		GLACIAL TILL	
15									Greenish-Gray SILT, trace sand, trace rock fragments, trace clay (moist, very compact)	Difficult to auger below a depth of 1 feet.
20		7	35	50/4			REF.			
		8	55	50/4			REF.			
25									DECOMPOSED BEDROCK	
									Test boring was completed at a depth of 24.4 feet with spoon refusal.	Free standing water was encountered at depth of 16 feet u boring completion.
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

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HOLE NO. B-16 SURF. ELEV. 448 PROJECT NO.: TGE.05.1
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-13-05 COMPLETED 12-13-05.

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	4	8	10		18		4" ASPHALT	Auger refusal was encountered at a depth of 3 feet. Boring was redrill approximately 4 feet to the north of the original location. Auger refusal was encountered at a depth of 3.5 feet. Boring was redrill again approximately 4 feet to the south of the original location. Auger refusal was encountered at a depth of 3.5 feet. Free standing water was not encountered upon boring completion.
		2	70/0				REF.		Brown GRAVEL and SAND, little Silt (wet, firm)	
									FILL grades to grout fragments	Test boring was completed at depths ranging from 3 to 3.5 feet with auger refusal (refer to Remarks).
5										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

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HOLE NO. B-16A SURF. ELEV. 448 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-14-05 COMPLETED 12-14-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	6	7	8		15		4" ASPHALT	Boring was drilled a distance of approximately 10 to the east of the original location.
		2	7	15	28	38	43		Brown GRAVEL and SAND, little Silt (wet, firm)	
		3	20	18	29	44	47		FILL	
5		4	75/5				REF.		Reddish-Brown SAND and SILT, little to some Gravel (moist, compact) (very moist, very compact)	
		5	39	50/4			REF.		GLACIAL TILL	
10									Greenish-Gray SILT, little Rock Fragments, trace clay (very moist)	Free standing water was encountered at depth of 12 feet u boring completion.
15		6	30	30	50/4		REF.		(wet)	
20		7	75/4				REF.		DECOMPOSED BEDROCK	Free standing water was encountered at depth of 12 feet u boring completion.
									Test boring was completed at a depth of 19.4 feet with spoon refusal.	
25										Free standing water was encountered at depth of 12 feet u boring completion.
30										Free standing water was encountered at depth of 12 feet u boring completion.
35										Free standing water was encountered at depth of 12 feet u boring completion.
40										Free standing water was encountered at depth of 12 feet u boring completion.

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HOLE NO. B-17 SURF. ELEV. 444 PROJECT NO.: TGE.05.C
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-12-05 COMPLETED 12-12-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	4	3	3	3	6		6" TOPSOIL	
		2	3	4	6	8	10		Brown fine SAND, little Silt, little Gravel, trace clay (moist, loose) (wet) grades to little Clay POSSIBLE FILL	
5		3	3	7	11	15	18			
		4	36	30	34	30	64			No Recovery for sample No. 4.
		5	7	11	50/3		REF.		Grayish-Brown SILT, trace to little fine Sand, trace gravel, trace clay (very moist)	
10									Greenish-Gray SILT, trace gravel, trace fine sand, trace clay (moist)	
15		6	37	44	70		114			
		7	30	30	30	27	60		DECOMPOSED BEDROCK	
20									Test boring was completed at a depth of 19 feet.	Free standing wate was encountered at depth of 9 feet up boring completion.
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
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HOLE NO. B-18A SURF. ELEV. 451 PROJECT NO.: TGE.05.1
 PROJECT Klozure Building LOCATION Palmyra, New York
 CLIENT Garlock Seal. Tech.
 DATE STARTED 12-19-05 COMPLETED 12-19-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0									Augered to a depth of 12 feet without sampling.	Refer also to bori B-18
5										
10										
12		6	25	35	50		85		Grayish-Brown SILT, little fine Sand, little Gravel (wet, very compact)	REF.-Sample refusa
15		7	50/4				REF.			
20		8	50/4				REF.			
25		9	12	20	30	50	50		GLACIAL TILL Greenish-Gray SILT, little Gravel (very moist, compact) DECOMPOSED BEDROCK	Hydropunch was advanced at boring completion. Free standing water was encountered at depth of 24 feet u boring completion.
30									Test boring was completed at a depth of 26 feet.	
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb















WT. FALLING 30 " PER BLOW

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SHEET 1 OF 1

























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HOLE NO. B-19 SURF. ELEV. 451 PROJECT NO.: TGE.05
 PROJECT Klozure Building LOCATION Palmyra, New York
 CLIENT Garlock Seal. Tech.
 DATE STARTED 12-14-05 COMPLETED 12-14-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	10	6	5		11		4" ASPHALT PAVEMENT	
		2	4	4	4	7	8		Brown SAND and GRAVEL, little Silt (moist)	Cobbles and/or boulders were encountered below depth of 4 feet
5		3	3	6	9	8	15		FILL Dark-Brown SAND, little Gravel	
		4	3	5	7	11	12		(very moist) (wet, loose)	
		5	48	28	30	25	58		POSSIBLE FILL	
10									Brown SAND, some Gravel, little Silt (very moist, firm) (wet)	
15		6	48	50/5			REF.		Brown SAND, some Gravel, little Silt (wet, very compact) grades to Silty SAND, some Gravel/Rock Fragments (wet)	
20		7	12	18	17	18	35		GLACIAL TILL Greenish-Gray SILT, little Rock Fragments, trace clay (wet)	
25		8	19	29	44	50/4	73		(very compact)	
									DECOMPOSED BEDROCK	Free standing water was not encountered upon boring completion.
									Test boring was completed at a depth of 25.9 feet with spoon refusal.	
30										
35										
40										

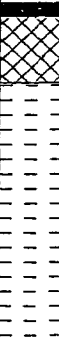
N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
 WT. FALLING 30 " PER BLOW
 LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

HOLE NO. B-22 SURF. ELEV. 443 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-12-05 COMPLETED 12-12-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	6	6	7		13		4" ASPHALT PAVEMENT	
		2	5	5	5	7	10		Brown SAND and GRAVEL, little Silt (wet)	0.32
		3	3	7	8	11	15		FILL	2
5		4	10	12	19	15	31		Greenish-Gray SILT, trace to little Clay, trace sand (very moist, loose) (firm)	
		5	12	12	24	34	36		POSSIBLE FILL	6
10									Greenish-Gray SILT, trace to little Clay, trace sand (very moist, compact) grades to little fine Sand (moist, very compact)	
		6	42	44	29	40	73			
15		7	27	44	50/4		REF.		grades to trace rock fragments	
									DECOMPOSED BEDROCK	17.4
20									Test boring was completed at a depth of 17.4 feet with spoon refusal	
										
										
25										
										
										
30										
										
										
35										
										
										
										
40										
										

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HOLE NO. B-23 SURF. ELEV. 436 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-16-05 COMPLETED 12-16-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	20	16	21		37		4" ASPHALT PAVEMENT	REF.-Sample refusal
		2	45	50	50/4		REF.		Brown SAND and GRAVEL, little Silt (moist, compact)	
		3	26	32	48	50	80		FILL	
5		4	55				REF.		Greenish-Gray SILT, trace to little Clay, trace sand, trace rock fragments (moist)	
		5	11	27	50/4		REF.		(very compact)	
10										
15		6	40	50/4			REF.		DECOMPOSED BEDROCK	Free standing water was not encountered upon boring completion.
									Test boring was completed at a depth of 14.8 feet with spoon refusal.	
20										
25										
30										
35										
40										




N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

HOLE NO. B-24 SURF. ELEV. 446 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-20-05 COMPLETED 12-20-05-

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	5	4	2		6		4" ASPHALT PAVEMENT	
		2	4	4	7	8	11		Brown SAND and GRAVEL, little Silt (moist) FILL	-0.32-
5		3	7	7	6	7	13		Dark-Brown SAND, little Gravel (moist) color changes to Brown grades to SILT and SAND, little Gravel, trace clay (wet, firm) contain black sand (wet) FILL	-1-
		4	10	25	25	38	50		Brown SILT and SAND, little Gravel (very moist, compact) grades to little Rock Fragments (very compact) (wet, firm) GLACIAL TILL	-6-
10		5	20	45	29	22	74		Greenish-Gray SILT, little Gravel, trace clay (moist, very compact) (wet, firm) DECOMPOSED BEDROCK	-12-
		6	11	8	8	23	16		Test boring was completed at a depth of 21 feet.	-21-
		7	13	15	65		80		No recovery for sample no. 8. Hydropunch was advanced at boring completion. Free standing water was encountered at depth of 16 feet u boring completion.	
15		8	46	50			REF.			
20		9	8	10	15	45	25			
25										
30										
35										
40										

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
HOLE NO. A-1 SURF. ELEV. 441 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-22-05 COMPLETED 12-22-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	7	7	10		17		4" ASPHALT PAVEMENT	
		2	8	10	12	18	22		Brown SAND and GRAVEL, trace silt (moist)	0.32
5									FILL	
									Greenish-Gray SILT, trace to little Clay, trace fine Sand (moist) (firm)	1.5
10									DECOMPOSED BEDROCK	
									Test boring was completed at a depth of 4 feet.	
15										
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1



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HOLE NO. A-2 SURF. ELEV. 442 PROJECT NO.: TGE.05.0
 PROJECT Klozure Building LOCATION Palmyra, New York
 CLIENT Garlock Seal. Tech.
 DATE STARTED 12-22-05 COMPLETED 12-22-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	7	6	9		15		4" ASPHALT PAVEMENT	
		2	6	11	18	17	29		Brown SAND and GRAVEL, trace silt (moist)	0.32
5									FILL	1.2
									Greenish-Gray SILT, trace to little Clay, trace fine Sand (very moist) (moist, firm) DECOMPOSED BEDROCK	
10									Test boring was completed at a depth of 4 feet.	Free standing water was encountered at depth of 8 feet up boring completion. Borehole was left overnight and free standing water was encountered at a depth of 7 feet th next day.
15										
20										
25										
30										
35										
40										

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Engineering

HOLE NO. A-3 SURF. ELEV. 442 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-22-05 COMPLETED 12-22-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	7	5	7		12		4" ASPHALT PAVEMENT	
		2	7	7	11	14	18		Brown SAND and GRAVEL, trace silt (moist) FILL	0.32
5									Greenish-Gray SILT, trace to little Clay, trace fine Sand (very moist) (moist, firm) DECOMPOSED BEDROCK	1.5
10									Test boring was completed at a depth of 4 feet.	Free standing water was encountered at depth of 8 feet up boring completion. Borehole was left overnight and free standing water was encountered at a depth of 7 feet to next day.
15										
20										
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-20 SURF. ELEV. 449 PROJECT NO.: TGE.05.0
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-14-05 COMPLETED 12-14-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	5	6	6		12		4" ASPHALT PAVEMENT	
		2	5	8	13	11	21		Brown SAND and GRAVEL, little Silt (moist)	Cobbles and/or boulders were encountered below depth of 4 feet
		3	7	12	18	24	30		FILL	
5		4	17	32	25	22	57		Reddish-Brown SILT and SAND, some Gravel (very moist) (wet, firm)	
		5	40	50/4			REF.		grades to little Rock Fragments	REF.-Sample refusa
10									Reddish-Brown Sandy SILT, little Gravel contain seams of medium- coarse sand (very moist)	
		6	55/2				REF.		GLACIAL TILL	No recovery for sample no. 6.
15									Reddish-Brown Clayey SILT, little Gravel/Rock Fragments	Free standing water was not encountere upon boring completion.
									contain seams of medium- coarse sand (very moist)	
20									GLACIAL TILL	
									Test boring was completed at a depth of 14.2 feet with spoon and auger refusal upon an apparent boulder.	
25										
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

Tierney
Geotechnical
Engineering

HOLE NO. B-21 SURF. ELEV. 442 PROJECT NO.: TGE.05
PROJECT Klozure Building LOCATION Palmyra, New York
CLIENT Garlock Seal. Tech.
DATE STARTED 12-21-05 COMPLETED 12-21-05

DEPTH (FEET)	Sample	Sample No.	BLOWS ON SAMPLE					GRAPHIC LOG	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
			0-6	6-12	12-18	18-24	N			
0		1	18	15	21		36		4" ASPHALT PAVEMENT	
									Brown SAND and GRAVEL, little Silt (moist)	0.32
		2	12	6	5	4	11		FILL	
5		3	3	2	4	7	6		Dark-Gray to Brown SILT, some Sand, little Clay, little Gravel, little Asphalt Fragments (moist)	1
		4	14	11	16	20	27			
		5	18	39	48	50	87			REF.-Sample refusal
10		6	29	50			REF.		FILL Brown SAND, little Silt, some Gravel, trace roots (wet, firm)	2 Difficult to auger below 10 feet.
		7	22	10	17	33	27		POSSIBLE FILL	
15		8	40	20	10	6	30		Greenish-Gray SILT, trace gravel, trace sand, trace clay (very moist) (firm)	5 Hydropunch was advanced at boring completion. Free standing water was not encountered with augers at 14 feet. Free standing water was encountered at a depth of 11. feet upon boring completion.
20									POSSIBLE DECOMPOSED BEDROCK Greenish-Gray SILT, little Rock Fragments, trace clay (moist, very compact) (very moist, firm) (wet)	8
									DECOMPOSED BEDROCK	
25									Test boring was completed at a depth of 17 feet.	17
30										
35										
40										

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb
WT. FALLING 30 " PER BLOW
LOGGED BY M.A.Fiorillo, EIT SHEET 1 OF 1

(5)

Location	1-	4-14-05 0840
Sample Depth	Rec.	C&F Soil
1-	0-4	4.0' Gray Ashplant &
Ashplant surface		Black gravel
O.i.	0.7	Brown SP Sand
	(P-1 0.7-1.5') 0850	
	10.0	Black SP Sand
	1.7	Lt. Gray SM Silt
	2.8	Brown Silt
2	4-8	4.0' Lt. Gray Sand
	(1-2 every 1") 0900	
	6.8	R/Brown Silt
3	8-12	4.0' Sand
	(1-3 every 1") 0910	
	8.2	Lt. Gray Silt
	11.5	Lt. gray Silt
4	12-16	3.8 Sand
	(1-4 every 1") 0915	
	14.8	Lt. gray Silt
	16.8	Sand Clay

Description	Moisture	P.C.
Same f/w gravel	Δ	0.0
f. gravel	m/w	0.0
little f. sand (N)	Dry, stiff, laminated	
little clay	Dry m/stiff, laminated	
little clay	Dry, med stiff	0.0
fine v.f. gravel - argillaceous		
little sand, m/w		
	m	
fine little f. sand	med stiff, 0.0	
trace sand, little clay	stiff	Dry
Same f/w sand	m/w	0.0
little silt	Very stiff	Plan

15

4-14-05 0935

on grass

15-1 0-4 3.8' Black SM SAND

Same, sl.

0.9
15-1 0-0.5' 1000

1.6 Red Brown SF SAND

3.0 Red-brown SW SAND

Same Sand

15-2 4-8' 4.0'

15-2

15-3 8-12' 4.0' Same

Red brown SILT

10.2
15-3

15-4 12-16' 4.0' Same

Red Brown SAND

12.9
15-4 12.0-12.9'

Same do 12-12.9

13.4
14.0' Lt. grey SILT

7

Topsoil, little silt, rootlets, moist

Sl. stiffer M, trace gravel (1" angular) 0.0 MD

Same flm: SA SR gravel, moist, loose
M/W at 2.5'

trace silt, moist, dense

Same M/W 4.2-4.6'
moist otherwise, occasional m. sr gravel

D/M s/mmed dense 0.0

little f. sand, trace SA fine gravel
Very stiff Moist 0.0

Same moist

Trace silt, wet

Same as 12-12.9' 0.0

Some clay very stiff Dry

(2)

4/14/05 1050

In grass Rec. Color Soil 1
2-1 0-4 2.4 DK Brn. SILT

~~2-1 1160 0.4~~

Black SP Sand

~~2-1 1160 0.4~~

Gray ML SILT

1.1

Brown SP Sand

1.3

FILL Fibers

FILL Rubber to Refusal 5.0'
2A-1 New 0-4 Head

2A-2 4-8

Refusal @ 5' - Rubber

More 75' West, 35' South

2A-1 8.4

6" Topsoil
Loose granular sand to

6" rubber & fill over

2A-2 4-8

1.6 DK Gray ML SILT
& Black

(2A-2 - silt only) 1140

(1)

Desch.

Some sand, topsoil, moist, roots,
0.0

F/M Granular, dry, loose 0.0

Light Sand, dry, stiff

Some M/C gravel, little silt, loose, dry

2 Rubber (red & black) dry FILL
Plastic sheathing

More - 32' East

(Change 1)

F-1 3' Shew Rubber

M/W

Silt, stratified laminated moist

0.0 2nd

2B

4-14

2-3 8-12 No recovery. Macrocore
No 2-3 Sample 4

2-4 12-16 4.0' Dk grey sil. SAND

est: 13.6 Same SP SAND
2-4 trace shown on water

E04 16.0'
No confining layer encountered

wet and covered with sand.

F/C, some f/m present, wet rounded
very loose 0.0

fine loose, m/w
in sleeve 0.0

(4) KPL 4-14-05 1400
 4-1 0-4 4.0 Brown ML SILT
 0.2 Brown ML SILT
 (4-1) 0.9 LF. gray ML SILT
 4-2 4.8 4.0 Same
 (4-2) 4-3 8-12 4.0 Same
 (4-3) 8.8
 4-4 12-16 2.8 Same
 12.6 Rock
 (4-4) Refusal @ 13'
 Install Well = 8' 5 green
 Checked PID w/ Sheppard

Little fl. Sand, green, leaf's whorled 0-0
 Topsoil, med. dense
 Stiff, dry to moist
 Little clay, h. fine sand, dry, stiff, brittle 0-0
 Same, looser/bottle from 4.5 to 7.0'
 otherwise stiff & more cohesive
 (likely more clay in more cohesive zone) 0-0
 Same Rusty brown stain only
 looser below 8.8' Mount below
 8.8 0.0 PID
 became moist to wet below 12'
 in spoon, Detritic, little gypsum
 dry 0-0

⑤

4-14-05 KPC 1435

in ground
Subsidence Interval Rac Color Soil →
S-1 0-4 4.0 dk brn. ~~dk sm~~ SILT
S-1 1.2 Brown to ML SILT
Red-brown

S-2 4-8' 3.8 Same

S-2 6.4 Red Brown SMA SAND

S-3 8-12' 3.0 Brown SW/GW SAND

9.8' Brown CL Clay

S-3 = 9.0-9.8

Refused Call

1500 Collect Water Sample HP-5

2X40 ml VOC w/ HCl
1X.65 L methanol - Filtration, HPLC

②1

Description
Little Sand, topsoil, trace conc. 1.0
Loose, recalcitrant O.D.
Little sand, little clay, silty, moist
O.O.

Same, little sand, less clay, wide depth

trace silt, little f/m SR Gravel West

Same Gravel m/c sand, f/m gravel
Wet

little silt, laminated, med plastic,
moist.

- Rock at top of core

(6)

4-14-74

1530

Sample Int. Rec. Cbn Soil

6-1 0-4

Brown

4.0

SM

SAND

1.0

lt. Brown

SP

SAND

1.8

Gray &
Green

BNL

SILT

2.6

Brown

SM

SAND

3.4

Brown /
Red brown

BNL

SILT

4.8

6-2

4-8

4.0

Sealer

4.7

lt. Brown

SP

SILT

6.0

Brown & SP

Gray

SAND

Dose

Some f. gravel & silt, moist loose topsoil

f. gravel - consists of sandy sized d/fm d.o

little coal, brick, gravel, med dense moist, fill d.o

little silt, heavy rust staining moist, Native d.o

to sand, little clay, d/fm, dense silt

f/fm

d.o

little sand, med stiff, trace clay?

sl. plastic, moist trace silt, n/w, reflective, d.o

~~6-3~~ (6) cont.

6-3 8-12 3.8' Brown Sand
cl/gray

9-2 Brown CL/sm Clay

(6-3)

10-8 Gray SP Sand

6-4 12-16 3.0 Gray Sand

12.2 Gray CL Clay

(6-4)

Refusal @ 15.0'
Well installed

(25)

well

8 SAND Interbedded clay seams
and sand seams Sand well
clay d/m 0.0 P.D.
Clay 9.2 9.5 9.8-10.0, 10.2-10.3
10.6-10.8

fine grained dense, wet 0.0

little silt, very stiff, dry 0.0

Sample	Interval	Loc	Color	Soil	KPC	100
7-1	0-4	3.8	Brown	SM	SAND	
	0.8	0.8	Gray	ML	SILT	
			olive			
	1.8	1.8	Asphalt on coal			
	2.0	2.0	Same			
	2.9	2.9	Brown	SP	SAND	
7-2	4-8	2.8			Same	
	4.2		Black		FILL	
	5.6		Brown w/ black staining	CL	CLAY	
7-3	8-12		Brown w/ black staining	CL	Clay	

Descr.	
little silt, sand less, drupe loose	
little Clay, dense, dry / m, FILL	
Seam - fine gravel, dry. 1.8-2.8	
fine gravel loose material	KPC
	0.0
Same	
SAND - little thin ceramic w. AL aqua-blue color paint chip moist 5.0 ppm	
little silt moist, odor 80 ppm max	
little silt, moist, sl. stuffy plastic	

(7)

cont

7-4 12-16 207'

Same

12.7

Gray

SP

Sand

7-4

13.3

-13.8

R/B

CL

Clay

13.8

Gray

SW

SAND

EOTW

16.0

Backfill

cuttings & Remnants

(29)

Same

0.3

Apr, NW, SP. oolite
snail shells.

0.5 pm

Same sub, moist, soft
Shoal

0.5 pm

Same ft gravel shoal
base moist

0.6 pm

8

4-14-05 KPL 1700
 on raised mound - 1-5' high
 8-1 0-4 4.0 Ls. Brn SW SAND
 1.2 Black - Cone

8-1

29-3.5 Tan/white ASH
 3.5-3.8 Black COAL

8-2 8-2

4-8 3.5' Black Coal

8-3 8-12

2.8 Same

8-3 8-5 8-5.2

Black Brown Tan ASH

8-4 12-16

9.0' Same -

15'

Black MC SILT

31

Some gravel, dry FILL 0.0

Fine granular coal, moist, trace reflecting, trace 0.0

Dry/moist 0.0 Bottom ash

moist, fine, granular 0.0

Fine, powdery, trace reflecting, trace white, chalky material 0.0
 Dry to moist

Same 0.0

Bottom Ash Wet trace red brick
 trace reflecting 0.0

Wet

Fine Clay soft, moist 0.0

(8-5)

cont

8-5 16.20 4.0

Same

(8-5)

16.4

Gray SM

SAND

8-6

20.22 2.0

Same

(8-6)

20.2

Brown Mlt

Silt

21.4

Gray CH

Clay

20.4 22.0

Well installed to 21.0

(33)

Same Moist

0.0

Fine, Hll silt, m/w

0.0

Trace rootlets, Hickory not from 18.7'

Little clay, moist, soft 0.0 2" x
fore post piece

Very soft, plastic, moist 0.0

w/ 10' screen & sand to 7.8'

9

4-15-05 KPL 0800

Sample	Int.	Rec	Color	Soil
9-1	0-4	4.0	lt grey	ML SILT
(9-1)				
9-2	4-8	3.5	Same	→
			Silt	
(9-2)	6.0		Grey	ML SILT
	6.3		Brown	ML SILT
9-3	8-12	3.0	Same	
(9-3)	10.0		Brown	Clay Clay
9-4	12-16	4.0	Same	
	12.2		Grey & Brown	SM SAND
(9-4)	14.0		Brown	ML SILT
	15.1		Grey	GF Gravel

(37)

Descri:

Little clay, free gravel, platy, dry
PID = 8.0

Sl. more clay below: 5.0, becomes
moist. 0.0 P.D

M/W little sand, brown clay, soft
0.0 P.D

Loamy - soft, little sf. sand.
Moist 0.0 P.D

Same, maybe sl. more clay
M/W 0.0 P.D

little silt, m/w, plastic
0.0

little silt, sl plastic m/w, soft 0.0

fine little sand, loamy, brown & free
root @ 15.7, 0.0 Saturated
add

little sand very wet,

10	4-15-05	DEYS	KPC
Swamp	Int.	Res.	Color Soil
10-1	0-4	3.9	Brown ML Silt
10-1	0-3		Cl. Gray ML Silt
	0-9		Black P COAL & SOIL
10-2	4-8'	3.5'	Same
10-2	9-13		Black SP SAND
10-3	8-12	3.0	Same
10-3	10-13		Gray SM SAND
10-4	12-16	3.0	Brown SP Sand
10-4	13-1		Brown SM Sand
10-4	14-3		Red Brown CH Clay
10-4	14-9		Gray CL Clay

DESIGN

Some sand, med dense topsoil moist
Some clay, clay + platy, 0.0 PIP
Fine granular, trace clinkers, moist m/w
Fine grained, traces wood materials, 0.0
Moist, wet. 6.0-6.3' 6.8-7.5'
Same m/w
Little silt, some root, Moist, med dense 2" wood (conf) at base
? Sl. Petroleum oil on ? No stain 0.0
trace silt, plm, silt.
little silt, med dense, moist
m/w, stiff, little same silt 0.0
Stiff, very dry, 0.0

(11)

4/18/65

0930

KPL

Sample Interval Rec Core Soil

in grains

110-1 0-4 3' dk. brn sm sand

(110-1) 0-5 Black Ash/coal

2.8

110-2 4-8 No recovery

110-3 8-12 3.9 Black Ash/coal

Clear break

8.6 Brown gML dirt

R/B

11.2

110-4 12-16 4.0 Same

(110-4) 14-15.5 Gray gm sand

14.0

43

Descs

Same silt heavy, topsoil moist - 0.0

clinkers, bottom ash, loose moist,

0.0 pid

dense wet

black on sampler

bottom ash wet

Little clay, little silt, sand, s/m, near

bottom stiff 0.0 pid

Softer - moist, plastic 0.0

More sand below 13.3', moist 0.0

s/m, little silt, med dense, shell

fragments, fine roots @ 15.4-16.0

subside about 12.0

11

continued

10-5 16-20 3.0 Gray SM SAND

16.6 Brown ML Silt

18.5 Gray ML Silt

Refused @ 19' very dense

8.46 silt med dense, s. sulfate odor
m/w 0.0 FID

Stiff D/W M 0.0

Therapeutic

Very Stiff, D/W 0.0

(12)

4-15-05

KL

1030

Sample Int. Rec Color Soil

on grain

12-1 0.4 3.0 Brown SM SAND

12-1 0.5 lt. gray ML SILT

1.5 Brown d. SM SAND

dk gray

12-2 4-8 3.0 Same

or SM/ML

12-2 6.7 Gray ML SILT

12-3 8-12 3.5 Same

9.1

12-3 14.4 Black ML SILT

10-12 11.4 DK Gray ML SILT

12-4 12-16 Same

12-4 14.3 Gray DL GRAY

14.6 14.6 Brown ML SILT

14.6 14.6

14.6 14.6

14.6 14.6

Referred
15.5

Desus

Same silt, loose, loamy topsoil moist

0.0

little sand, little clay, platy, dry

0.1

little silt, med stiff, little s. recorded

0.2

gravel, moist

F100 0.0

Same F100 w/w, trace

0.3

Slightly moist, more cohesive

than above, very s. adam 0.5

Same w/w 1.0 ppm

little sand, moist, 10 ppm, adam

roots (1/2" ϕ) dec m/w spot

loamys cohesive, adam 300 ppm +

Same, large tree roots 40 ppm +

14', plot, shells, moist

little silt, 15 ppm, 300 ppm

< 3 ppm, no adam Dry

Sample	Interval	Sec Color	Soil
13-1	0-4	4.0	Brown
13-2	4-8	4.0	Same
13-3	8-12	4.0	ML SILT
13-4	12-16	4.0	Same
13-5	16-20	2.0	Same ML Silt

* No Well - only wet-zone
was from fill

Deser

little silt, topsoil, dry/fin. to gravel 0
fine, granular, dry 0.1
Some little coal, little bottom ash, No
0.0
6.50-6.7 in/W, ash
coarser, rust staining 0.4 ppm

little clay, trace sand of an O.Bpp
Si. Soil odor,
little clay, moist, laminated, 0.2 ppm

Same ~~Same~~ ^{KL}
Same sand & s. gravel, moist
~~Same~~

13-5 17-18
204 20'

becomes dry below 16.5 ft - very sticky

13-1 0-4

13-2 4-8

13-3 8-12

13-4 12-16

13-5 16-20

4-15-05 1 220

Sample Interval Sec Color Soil

13-1 0-4 4.0 Brown

13-2 4-8 4.0 Same

13-3 8-12 4.0 ML SILT

13-4 12-16 4.0 Same

13-5 16-20 2.0 Same ML Silt

13-6 20-24 2.0 Same ML Silt

13-7 24-28 2.0 Same ML Silt

13-8 28-32 2.0 Same ML Silt

13-9 32-36 2.0 Same ML Silt

13-10 36-40 2.0 Same ML Silt

13-11 40-44 2.0 Same ML Silt

13-12 44-48 2.0 Same ML Silt

13-13 48-52 2.0 Same ML Silt

13-14 52-56 2.0 Same ML Silt

(14)

4-5-05

KFL

1315

on gravel

Sample	Int.	Rec.	Color	Soil
14-1	0-4	2.2	Brown	SM

0.4	Brown	SM	Sand
-----	-------	----	------

14-2	4-8	3.0	Same
5-5			
7.0			
7.4			

Same as 7.0-7.4

14-2	4-8	3.0	Brown	Same
------	-----	-----	-------	------

6.2	Brown	SP	Sand
-----	-------	----	------

14-3	8-12	4.0	Same
------	------	-----	------

9.1	Brown	SW	Sand
-----	-------	----	------

11.4	Gray	ML	SILT
------	------	----	------

(51)

Descn.
Same silt, loose, roots, topsoil

little silt, little clay, little gravel (f-sr) soft wet-

Same - inter-mittent sand gravel zones (5.5-5.4) (5.8-6.1) Wet (6.7-7.0) 0.3
--

little sand, rootlets, moat Wet (clipped KL) (same upside down) (black)

Same - inter-mittent gravel zones Wet 5.2, 5.7-6.0 moist/wet

Wet, loose, med dense 0-1

Same 0-0

same 5/8 gravel, very dense, 5/8

little clay, med stiff, plastic moist 0.0
--

(14)

14-4 12-16 4.0

Same

Except for soil No Water, no

soil 16.0'

(53)

peaches green-gray & fissile,
dry face is 0-0

well.

0900

25

Sample Int.	Rec.	Color	Soil
25-1	0-4	4.0' dk. brn	SW & ARID
25-1	1.0	Green ML Gray	SILT
25-2	4-8 3.7	3.7' Same	Same
25-2	8.52 (Native only) 5.2-8.0	Green ML Gray	SILT
25-3	8-12 8.4	1.9' Same	Same
25-3	below 8.4	Gray ML to brown to lt. gray white	SILT
25-4	12-16 12.7	8.0' Same	Same
25-4	12.7-15 14.0	gray Reddish brown	ML SILT

63

Desn.	
little flung gravel in case, d/m fill	
little/some clay, very stiff, d/m trace gravel / blocky, low	
trace gravel @ 1.8	
trace clay (Chinkel) @ 3.7	
n/w	
red stiff, moist, laminated, little clay, Nodules,	
Same n/w	
little to some, clay, moist	
moist, stiff	
d/m, blocky, very stiff	
Same	
little clay, trace angular gravel, d/m, blocky, very stiff	
laminated, d/m, very stiff	

25

continued

25-5

16-20, 4.0'

Brown CH

Clay

25-6

16.4

Brown SM

SAND

25-6

20-24 1.6'

Brown

SAND

- Refusal 21.5' -

Install well - screen is 5'

0.9' stickup

Bentonite

6.0'

SAND

#2 Gravel
Filler

3" Ø

16'

20.4 21.5'

65

Tr. silt, very plastic, ~~becomes~~ in NWFair grained, little silt, m/fw (fine to coarse)
mod ~~diff~~ clayey.

Same

last

6"

Very dense

moder

F@ 11-16' sand to 6'

60 Sample

1035

2x40 ml VOC w/16

W-38640-0405-KL-025

Description	
little gravel	moist, loose
little sand & clay	clay, mod stiff
dry - lumpy	
stiff, moist, med dense	low moisture
little sand, clay	moist, stiff
same	
little clay, moist	mod stiff, add
little clay, very stiff	Dry
7.6-10.0	gray, little sand
10.3-10.5	no/w, very stiff
softer - moist / wet zone	11.5-12.2
base - blocky zone	12.5-12.9
same	13.5-14.2

Sample	INTERNAL REC	Color	Soil
24-1	0.4	3.8'	Asphalt
	0.2	lt. brn	SP SAND
	0.8	dk brn	ML SILT
24-1	1.5	gray	
0.8-4.0		brn / med blue	SM SAND
	3.4	gray	ML SILT
24-2	4.8	2.8'	same
24-2	5.2	dk gray	ML SILT
5.0-6.0	5.9	lt. brn / gray	SILT
24-3	8-11.5	3.5'	same
24-3	9.5-10.5		
24-4	11.5-15	4.0'	same
24-4	12.5-15		

24 continued

24-5 15-19 4.0 Gray MR SILT

25-5-

EOH Refused @ 19.0' - Hand Sampling

Install Wall

Flushmount

9/16 bolts

Cement

Benlante

SAND

3" Ø

11.0'

16'

19'

69

little clay, its fine sand, d/w
stiff, plastic, laminated

Not refused

GLW Sample 1225 2x40mm VOC
WT 38640-0405-KL-029

21

1300

Sample Int.	Rec	Color	Soil
21-1 0-4	4.0	Brown	SM SAND
1.4		lt-brown	SP SAND
1.7		lt gray	ML SILT
2.8			
21-2 4-8	4.0	lt gray	Same
6.2		lt gray of brown	CL CLAY
8-12	4.0	Same	
8.2		lt gray	ML SLT
10.2		Brown	SM SAND
11.6		gray-brown	ML CLAY
12-16	4.0	Same	
21-4			
12.7		lt gray	ML SILT

sample
wet!

(71)

Desks	
Same silt, med. (all no size)	Coarse, m/fw
little clay, trace sand, laminated, clay, platy, dense stiff, but fissile	
Same	
little silt, dr to med, massive, very stiff	
Same	
little clay, platy, fissile, clay, very stiff	
Same silt, m/fw, soft,	
Same clay dr to med, very stiff	
Same	massive
little f. sand, m/fw, blocking	little clay

little clay
at top
massive

21 to continue

Gray CL CLAYE
SILT

21-5 16-20

Same

21-6 20-24

Same

21-7

Same

21-7 24-28

Same

21-9

Red-brown ML SILT

25-6

Gray ML-CL SILT
CLAY

21-8 28-32

Same Same

Refusal @ 29.6' Cypressum

Backfill with removed soil

Very stiff, clay, massive

Same

except platy/bloomy - not massive
d/m at base

Same

most to wet, soft, little sand,
in clay

Very stiff, clay, massive

Same - d/m - some bedstone/mudstone
becomes platy/fine at last 0.3

on end of samples

146

20

Sample	Int	Rec	Color	Soil
20-1	2-4	2.7	Mixed black gray	GP (all sizes)
20-1	2.3		Brown	SP one size
20-2	4-8	3.5	Same	clay
20-2	4.8		gray	ML SILT
20-2	5-8		Green/gray	
20-3	8-12	3.0	gray	Same
20-3	9-12		gray	CL/ML
20-4	12-16	3.5	Same	Same
	12.5			GP Gravel
	14		Green Gray	CL/ML & SILT
	20-10			

Descriptive
Gravel & sand mixed fill
fine sand @ 12-13' 0/m
SANDS, little silt, loose, m/w
Same
little clay, moist, very stiff
becomes blocky, d/m @ 5.8'
Same - blocky/dry
Massive, very stiff d/m
Same
fine sand wet

Dry/loose, Very dense

22

Continued

22-4 12-16

3.5'

Same

12.2

Gray
Green

AML
SCT

(22-4)

13.9

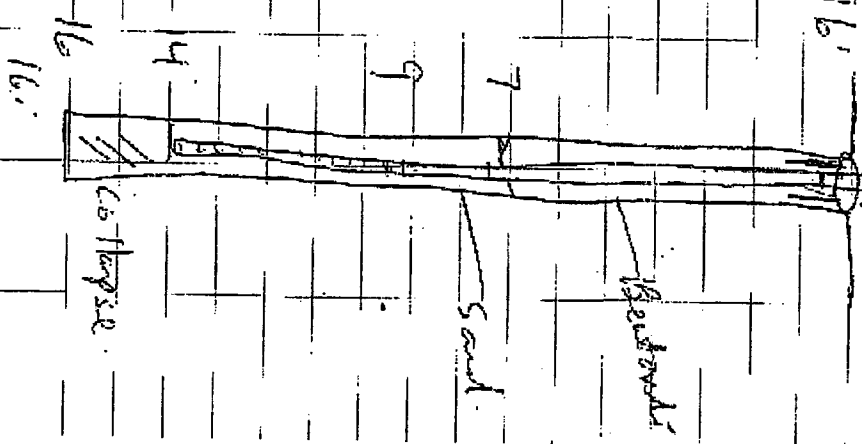
Same

~~22-5~~ 16-18

~~Approx. 10-12~~

Floshment

Cont 16'



Same, ~~not~~ sl. down

Little Clay, dry, measuring

Very stiff

dry, plenty / loose, very stiff

WG-38640-0405-KC-022

1745

10/11 = 5.23 670C

1925

22			1700	
Sample	Int.	Loc.	Color	Soil
22-1	0.5-4	3.3'	Black Brown	COAL = SAND
22-1	2.7		Green Grey	ML SILT
22-2	4-8	3.2		Same
	4.8		White	Soft
22-2	5.2			ASH
	5.9		Dk Brn Black	ML SILT
			Brown Grey	Same
22-3	8-12	3.7		Same
	8.6		Grey	Same
	9.4		Grey Grey	Same
	11.0		Brown	SPN SANDS

Description	
Clunkers, trace red hemat. Moist	O/S ppm
little clay, platy, fine, dry/w	6.3 ppm
Same	
white clay - plastic	Moist
cracked/cracked (clunkers)	gritty
same clay, moist, mud stiff	
very stiff after moisture	
dry, less clay, platy, fine	
little clay, little	
SP, dense	

23

In asphalt

1815

Sample	Interval	Per	Color	Soil
23-1	0.5-4	3.2	Brown	SW SAND
23-1	1.0		Brown	SB SAND
23-2	4-8	3.0	Brown	Same
23-2	4.7		Gray & brown	ML SILT
23-2	5.6		Green-gray	ML SILT
23-3	8-12	3.5		Same
23-3	10.5		Brown	ML CLAY
23-3	8-10.5		Grades to gray	CL & SILT
23-4	12-16	3.0		Same
23-4	12.5		Gray	ML CL
23-4	Below 12.5			Clay Silt

Description

little gravel (Ass't size)	D/m	OP
Ass't size - most		1.54
Red brick	2.3-2.4	
Same	0.9	
little gravel, fr. clay & sand,		0.2
little clay, gh. gravel, soft, moist		0.0
Same soft	moist	
Dry Very Stiff, massive		
Same		
Very stiff dry, lumpy/fragile		

APPENDIX C

EXCAVATION WORK PLAN (EWP)

C-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination or breach or alter the Site's cover system, the Site owner or their representative will notify the NYSDEC project manager and the project manager's supervisor listed in the table below. Table C-1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information.

Table C-1: Notifications*

Joshuah Klier – NYSDEC Project Manager	(585) 226-5357 joshuah.klier@dec.ny.gov
David Pratt – NYSDEC Project Manager's Supervisor	(585) 226-5449 <u>david.pratt@dec.ny.gov</u>
NYSDEC Site Control	<u>DERSiteControl@dec.ny.gov</u>
Julia Kenney – NYSDOH Project Manager	(518) 402-7873 julia.kenney@health.ny.gov
Garlock Sealing Technologies, LLC; Carrie SanAngelo – Site Owner and Remedial Party	(315) 597-7311 Carrie.Sanangelo@garlock.com
GHD Consulting Services Inc.; Jeffrey Lambert – Remedial Engineer	(860) 747-8245 jeffrey.lambert@ghd.com
Lippes Mathias, LLP; Amy L. Reichhart – Remedial Party Attorney	(585) 770-7590 ext. 1810 areichhart@lippes.com

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

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for Site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, any modifications of truck routes, and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work, and submittals (e.g., reports) to the NYSDEC documenting the completed intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP, 29 CFR 1910.120 and 29 CFR 1926 Subpart P;
- A copy of the contractor's health and safety plan (HASP), in electronic format;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

The NYSDEC project manager will review the notification and may impose additional requirements for the excavation that are not listed in this EWP. The alteration, restoration and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application professional seals and alterations.

C-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed during all excavations into known or potentially contaminated

material (remaining contamination) or a breach of the cover system. A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will perform the screening. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-Site disposal and material that requires testing to determine if the material can be reused on-Site as soil beneath a cover or if the material can be used as cover soil. Soils that are observed to be stained, discolored, have a sheen, or produce elevated PID readings (i.e., sustained 10 parts per million [ppm] or greater) will be considered potentially contaminated and stockpiled for further assessment per Sections C- 6 and C-7. Further discussion of off-Site disposal of materials and on-Site reuse is provided in Sections C-6 and C-7 of this Appendix.

C-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC.

C-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site. A Site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements). Trucks transporting contaminated soil must have either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all sides.

A truck wash will be operated on-Site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-Site in an appropriate manner.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-Site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials. Material accumulated from the street cleaning and egress cleaning activities will be disposed off-Site at a permitted landfill facility in accordance with all applicable local, State, and Federal regulations.

C-5 MATERIALS TRANSPORT OFF-SITE

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

Material transported by trucks exiting the Site will be secured with either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all sides. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks loaded with Site materials will exit the vicinity of the Site using only the most appropriate routes, which will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Queuing of trucks will be performed on-Site in order to minimize off-Site disturbance. Off-Site queuing will be prohibited.

C-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed off-Site in a permitted facility in accordance with all local, State, and Federal regulations. If disposal of material from this Site is proposed for unregulated off-Site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC project manager. Unregulated off-Site management of materials from this Site will not occur without formal NYSDEC project manager approval.

Off-Site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C&D debris recovery facility). Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include, but will not be limited to: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-Site will be handled consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted Use SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 360-15 registered or permitted facility).

C-7 MATERIALS REUSE ON-SITE

The qualified environmental professional, as defined in 6 NYCRR Part 375, will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material (i.e. contaminated) does not remain on-Site. Contaminated on-Site

material, including historic fill and contaminated soil, that is acceptable for reuse on-Site will be placed below a demarcation layer or impervious surface, and will not be reused within the cover system or within landscaping berms. Contaminated on-Site material may only be used beneath the Site cover as backfill for subsurface utility lines with prior approval from the DEC project manager.

Proposed materials for reuse on-Site must be sampled for full suite analytical parameters including per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the Site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (April 2023 or date of current version, whichever is later) guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

Soil/fill material for reuse on-Site will be segregated and staged as described in Sections C-2 and C-3 of this EWP. The anticipated size and location of stockpiles will be provided in the 15-day notification to the NYSDEC project manager. Stockpile locations will be based on the location of Site excavation activities and proximity to nearby Site features. Material reuse on-Site will comply with requirements of NYSDEC DER-10 Section 5.4(e)4. Any modifications to the requirements of DER-10 Section 5.4(e)4 must be approved by the NYSDEC project manager.

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

C-8 FLUIDS MANAGEMENT

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

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

C-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities, the existing cover will be restored. The existing cover is comprised of a minimum of 12 inches of clean soil, asphalt pavement, concrete covered sidewalks, and concrete building slabs. A demarcation layer, consisting of orange snow fencing material, white geotextile, or equivalent material, will be placed prior to backfilling the excavation to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP, if appropriate and approved by the NYSDEC based on their review and approval of either the EWP or pre-work notification associated with the proposed work. If the type of cover changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), a figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP. The alteration, restoration, and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application of professional seals and alterations.

C-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the Site will be approved by the qualified environmental professional, as defined in 6 NYCRR Part 375, and will be in compliance with provisions in this SMP prior to receipt at the Site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review. A copy of the form is presented in Appendix J of the SMP.

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

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d) and DER-10 Appendix 5 for commercial use. Soils that meet ‘general’ fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC project manager. Soil material will be sampled for the full suite of analytical parameters, including PFAS and 1, 4-dioxane. Solid waste will not be imported onto the Site.

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

C-11 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

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

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

C-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition. The NYSDEC project manager will be promptly notified of the discovery.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes [TAL metals, TCL volatiles and semi-volatiles (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the Site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC project

manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance.

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

C-13 COMMUNITY AIR MONITORING PLAN

Air monitoring will be conducted during Site work, in accordance with a Community Air monitoring Plan (CAMP), as required by Appendix A-I of NYSDEC's DER-10. The objective of this CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that might arise as a result of work conducted on Site. The CAMP will include monitoring for volatile organic compounds (VOCs) and particulate matter (e.g. airborne "dust"). The CAMP specifies methods that must be used to conduct air monitoring, and the specific instruments to be used. Action levels for VOCs and dust are provided.

The location of air sampling stations based on generally prevailing wind conditions will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations. These locations will be shown on a figure provided to the NYSDEC at the time the CAMP is implemented.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

C-13A: Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 part-per-million, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 micrograms per cubic meter, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 micrograms per cubic meter or less at the monitoring point.
- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be

monitored. Response levels and actions should be pre-determined, as necessary, for each Site.

C-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-Site. If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

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

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

C-15 DUST CONTROL PLAN

Particulate monitoring must be conducted according to the Community Air Monitoring Plan (CAMP) provided in Section C-13. If particulate levels at the Site exceed the thresholds listed in the CAMP or if airborne dust is observed on the Site or leaving the Site, the dust suppression techniques listed below will be employed. The remedial party will also take measures listed below to prevent dust production on the Site.

A dust suppression plan that addresses dust management during invasive on-Site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved using a dedicated on-Site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-Site roads will be limited in total area to minimize the area required for water truck sprinkling.

C-16 OTHER NUISANCES

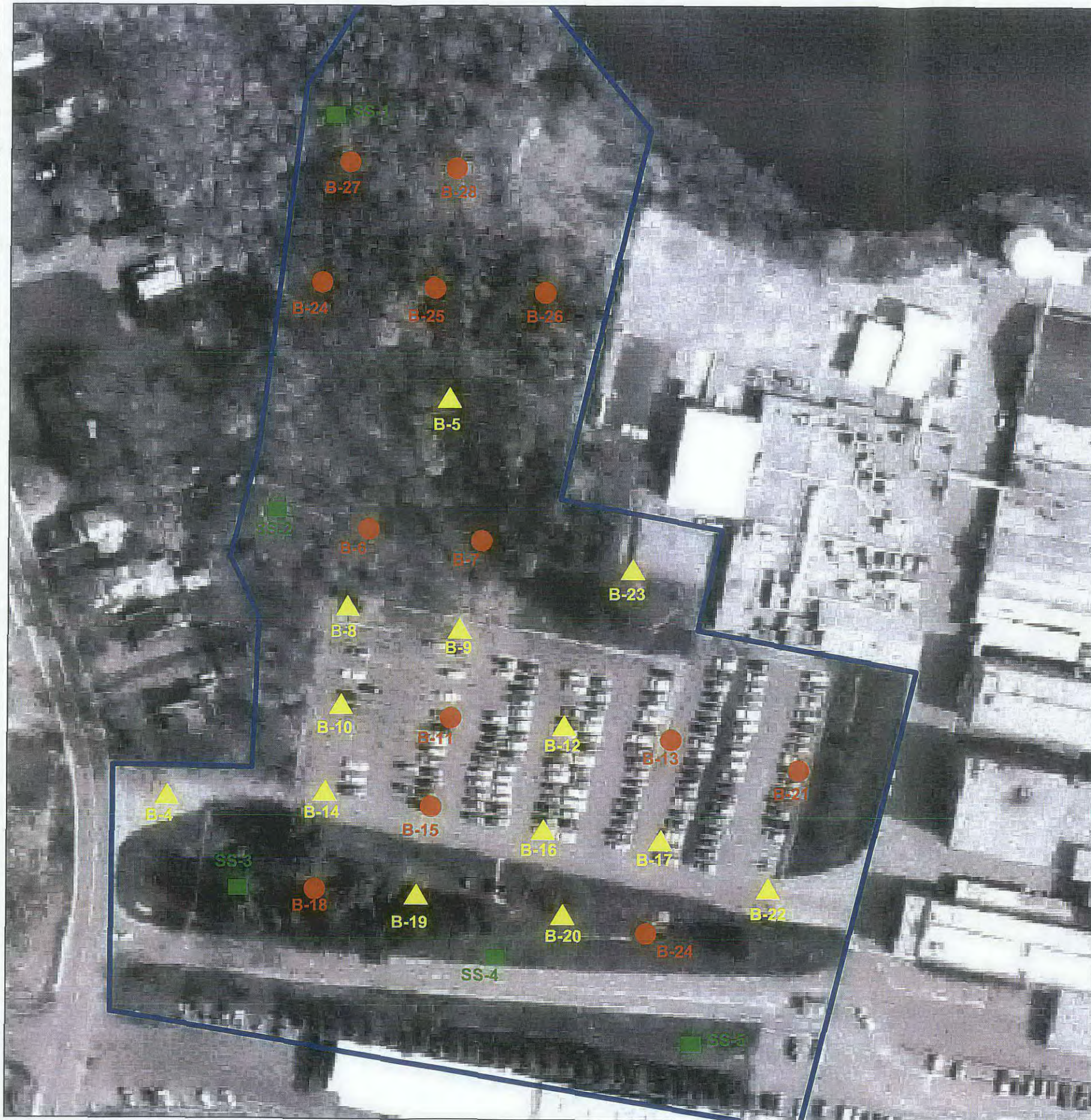
A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing, and during all remedial work, as appropriate.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

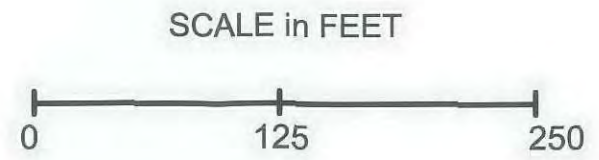
APPENDIX D

REMEDIAL INVESTIGATION SOIL DATA

X-REF: NAMES?
YR/MO LOCATION ORIGINATOR NAME REV MADE BY NAME
DRAWING PATH, WITH NAME AND EXTENSION



- Surface Soil Samples (Location Approximate)
- Soil Boring Samples Screened with a PID and Laboratory Analyzed (Location Approximate)
- Soil Boring Screened with a PID
- Approximate Site Boundary



S&W Redevelopment of North America, LLC Syracuse, New York DATE:11/2006 JOB No:N6009	Garlock Site 1666 Division Street Wayne County Palmyra, New York
	FIGURE 3-1 Soil Borings/Surface Soil/Screened Sample Locations

X-REF: NAMES?
2006/november/syracuse/AM
J:\PROJECTS\N-xxxx\N6000\N6008-N6009- Garlock Palmyra\N6009 - Klosures Site\Figures\Garlock Fig 4-2.dwg



- Surface Soil Sample ID
Analyte - mg/kg
- Soil Boring Sample ID
Analyte - mg/kg
- Approximate Site Boundary



SCALE in FEET



S&W Redevelopment
of
North America, LLC

Syracuse, New York

DATE:11/2006 JOB No:N6009

Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

FIGURE 4-2
Soil Exceedances of Industrial Standards

Table 4-2 (p. 1 of 5). Carlock Sealing Technologies Klosure's BCP Site, Surface Soil Sample Results, VOCs, October 2006.

Analyte	Soil Cleanup Guidance		Sample Identification				
	TAGM 4046	Track 2 Restricted Industrial	SS-1 10/16/06	SS-2 10/16/06	SS-3 10/16/06	SS-4 10/16/06	SS-5 10/16/06
VOCs							
1,1,1-trichloroethane	0.8	1,000	U	U	U	U	U
1,1,2,2-tetrachloroethane	0.6		U	U	U	U	U
1,1,2-trichloroethane			U	U	U	U	U
1,1-dichloroethane	0.2	480	U	U	U	U	U
1,1-dichloroethene	0.4	1,000	U	U	U	U	U
1,2,4-trichlorobenzene	3.4		U	U	U	U	U
1,2-dibromo-3-chloropropane			U	U	U	U	U
1,2-dibromoethane			U	U	U	U	U
1,2-dichlorobenzene	7.9	1,000	U	U	U	U	U
1,2-dichloroethane	0.1	60	U	U	U	U	U
1,2-dichloropropane			U	U	U	U	U
1,3-dichlorobenzene	1.6	560	U	U	U	U	U
1,4-dichlorobenzene	8.5	250	U	U	U	U	U
2-butanone	0.3		U	U	U	U	U
2-hexanone			U	U	U	U	U
4-methyl-2-pentanone	1		U	U	U	U	U
Acetone	0.2	1,000	0.0056 JB	U	0.0042 JB	U	U
benzene	0.06	89	U	U	U	U	U
bromodichloromethane			U	U	U	U	U
bromoform			U	U	U	U	U
bromomethane			U	U	U	U	U
carbon disulfide	2.7		U	U	U	U	U
carbon tetrachloride	0.6	44	U	U	U	U	U
chlorobenzene	1.7	1,000	U	U	U	U	U
chloroethane	1.9		U	U	U	U	U
chloroform (trichloromethane)	0.3	700	U	U	U	U	U
chloromethane			U	U	U	U	U
cis-1,2-dichloroethene		1,000	U	U	U	U	U
cis-1,3-dichloropropene			U	U	U	U	U
cyclohexane			U	U	U	U	U
Dibromochloromethane			U	U	U	U	U
dichlorodifluoromethane			U	U	U	U	U
ethylbenzene	5.5	780	U	U	U	U	U
isopropylbenzene			U	U	U	U	U
Methyl acetate			U	U	U	U	U
Methyl cyclohexane			U	U	U	U	U
Methyl tert butyl ether		1,000	U	U	U	U	U
methylene chloride	0.1	1,000	0.0051 JB	0.0044 JB	0.0038 JB	0.0032 JB	0.0035 JB
styrene			U	U	U	U	U
tetrachloroethylene	1.4	51	U	U	U	U	U
toluene	1.5	1,000	U	U	U	U	U
trans-1,2-dichloroethene	0.3	1,000	U	U	U	U	U
trans-1,3-dichloropropene			U	U	U	U	U
trichloroethene	0.7	400	U	U	U	U	U
trichlorofluoromethane (CFC-11)			U	U	U	U	U
trifluorobromochloroethane (Freon 113)	6		U	U	U	U	U
vinyl chloride	0.2	27	U	U	U	U	U
Xylene (total)	1.2	1,000	U	U	U	U	U

Notes:

All units in ppm

B- Method Blank Contamination

J- Estimated

U- Non-detect

Bold Type Face Exceeds TAGM RSCOs

Shaded values exceed Track 2 Industrial Values

Table 4-2 (p. 2 of 5). Garlock Sealing Technologies Klocure's BCP Site. Surface Soil Sample Results.SVOCs. October 2006.

Analyte	Cleanup Guidance Value		Sample Locations				
	TAGM 4046	Track 2 Restricted Industrial	SS-1 10/16/06	SS-2 10/16/06	SS-3 10/16/06	SS-4 10/16/06	SS-5 10/16/06
SVOCs							
2,2'-oxybis (1-Chloropropane)			U	U	U	U	U
2,4,5-trichlorophenol	0.1		U	U	U	U	U
2,4,6-trichlorophenol			U	U	U	U	U
2,4-dichlorophenol	0.4		U	U	U	U	U
2,4-dimethylphenol			U	U	U	U	U
2,4-dinitrophenol	0.2		U	U	U	U	U
2,4-dinitrotoluene			U	U	U	U	U
2,6-dinitrotoluene	1		U	U	U	U	U
2-chloronaphthalene			U	U	U	U	U
2-chlorophenol	0.8		U	U	U	U	U
2-methylnaphthalene	36.4		U	U	U	0.15	0.14
2-methylphenol	0.1		U	U	U	U	U
2-nitroaniline	0.43		U	U	U	U	U
2-nitrophenol	0.33		U	U	U	U	U
3,3-dichlorobenzidine			U	U	U	U	U
3-nitroaniline	0.5		U	U	U	U	U
4,6-dinitro-2-methylphenol			U	U	U	U	U
4-bromophenyl phenyl ether			U	U	U	U	U
4-chloro-3-methylphenol	0.24		U	U	U	U	U
4-chloroaniline	0.22		U	U	U	U	U
4-chlorophenyl phenyl ether			U	U	U	U	U
4-methylphenol	0.9		U	U	U	U	U
4-nitroaniline			U	U	U	U	U
4-nitrophenol	1		U	U	U	U	U
acenaphthene	50	1,000		U	U	U	U
acenaphthylene	41	1,000	0.096	J	U	0.13	J
acetophenone			U	U	U	U	U
anthracene	50	1,000	0.28	J	U	0.26	J
atrazine			U	U	U	U	U
benzaldehyde			U	U	U	U	U
benzo(a)anthracene	0.22	11	1.5	U	U	1.1	0.56
benzo(a)pyrene	0.06	1.1	1.5	U	U	1	0.64
benzo(b)fluoranthene	1.1	11	2.1	M	U	0.94	1
benzo(g,h,i)perylene		1,000	1.7	M	U	0.74	0.79
benzo(k)fluoranthene	1.1	11	0.92	U	U	0.82	0.61
biphenyl			U	U	U	U	U
bis(2-chloroethoxy)methane			U	U	U	U	U
bis(2-chloroethyl) ether			U	U	U	U	U
bis(2-ethylhexyl) phthalate	500		0.18	JB	0.12	0.12	0.15
butyl benzyl phthalate	500			U	U	U	U
Caprolactam			U	U	U	U	U
carbazole			0.16	J	U	0.1	0.09
chrysene	0.4	110	1.8	U	U	1.2	0.75
dibenz(a,h)anthracene	0.01	1.1	0.4	M	U	0.16	0.18
dibenzofuran	6.2		U	U	U	0.07	U
diethyl phthalate	7.1		U	U	U	U	U
dimethyl phthalate	2		U	U	U	U	U
di-n-butylphthalate	8.1		U	U	U	U	U
di-n-octylphthalate	50		U	U	U	U	U
fluoranthene	50	1,000	2.5	U	U	1.6	1.4
fluorene	50	1,000		U	U	0.059	J
hexachlorobenzene	0.41	12	U	U	U	U	U
hexachlorobutadiene			U	U	U	U	U
hexachlorocyclopentadiene			U	U	U	U	U
hexachloroethane			U	U	U	U	U
indeno(1,2,3-cd)pyrene	3.2	11	2	U	U	0.81	0.79
isophorone	4.4		U	U	U	U	U
naphthalene	13	1,000	U	U	U	0.078	J
nitrobenzene	0.2		U	U	U	U	U
n-nitrosodi-n-propylamine			U	U	U	U	U
n-nitrosodiphenylamine			U	U	U	U	U
pentachlorophenol	1	55	U	U	U	U	U
phenanthrene	50	1,000	0.82	U	U	1	0.51
phenol	0.03	1,000	U	U	U	U	U
pyrene	50	1,000	2.6	U	U	1.5	1.2

Notes:

All units in ppm

B- Method Blank Contamination

J- Estimated

U- Non-detect

M- Manually integrated peak

Bold Type Face Exceeds TAGM RSCOs

Shaded values exceed Track 2 Industrial Values

Table 4-2 (p. 3 of 5). Garlock Sealing Technologies Klotz's BCP Site. Surface Soil Sample Results. Metals And Cyanide, October 2008

Analyte	Cleanup Guidance Value		Sample Identification				
	Track 2 Restricted Industrial	SS-1 10/16/06	SS-2 10/16/06	SS-3 10/16/06	SS-4 10/16/06	SS-5 10/16/06	
Metals (mg/Kg)	TAGM 4046						
Aluminum		10,700	4,060	10,600	6,070	13,100	
Antimony		U	U	U	U	U	U
Arsenic	7.5	16	6.5 B	2.9 B	8.0 B	3.0 B	5.5 B
Barium	300	10,000	87.1	25.8 J	81.8	44.5	123
Beryllium	0.16	2,700	U	U	U	U	U
Cadmium	1	60	U	U	U	U	U
Calcium		15,100	49,200	15,200	30,500	4,260	
Chromium Total	10	1,500	17.7	5.3	13.7	8.5	28.6 *
Cobalt	30		7.7	3.5	8.7	5.4	11
Copper	25	10,000	22.2	12	29	17.1	34.9
Cyanide (total)		10,000	0.11 B	U	0.158	0.144 B	U
Iron	2,000		19,300	8,200 *	25,500	13,600 *	26,000 *
Lead		3,900	46.5	5.7 B	23.8	27	46.8
Magnesium			9,080	17,800	10,900	12,500	4,880 J
Manganese		10,000	834	428	1,360	588	872
Mercury	0.1	5.7	0.071	U	0.041	0.043 B	0.081
Nickel	13	10,000	19.6 *	8.2	22.6	11.3	29.4 *
Potassium			1,050	828	1,150	839	1,180
Selenium	2	6,800	2.4 B	U	U	U	U
Silver		8,800	U	U	U	U	U
Sodium			236	181	154	288	2,290
Thallium			U	U	U	U	U
Vanadium	150		18.4	7.9	22.6	12.1	23.6
Zinc	20	10,000	177 *	46.9 *	159 *	142 *	138 *

Notes

All units in ppm

B- Estimated

J- Method Blank Contamination

U- Non-detect

Bold Type Face* Exceeds TAGM RSCOs

Dots* exceed Track 2 Industrial Values

Table 4-2 (p. 4 of 5). Garlock Sealing Technologies Kiozura's BCP Site. Surface Soil Sample Results. PCBs, October 2006

Analyte	Soil Cleanup		Sample Identification				
	TAGM RSCOs	Track 2 Restricted Industrial	SS-1 10/16/06	SS-2 10/16/06	SS-3 10/16/06	SS-4 10/16/06	SS-5 10/16/06
PBCs (ug/Kg)							
Aroclor 1016			U	U	U	U	U
Aroclor 1221			U	U	U	U	U
Aroclor 1232			U	U	U	U	U
Aroclor 1242			U	U	U	U	U
Aroclor 1248			U	U	U	U	U
Aroclor 1254			U	U	U	U	U
Aroclor 1260			0.02 M	U	U	U	U
Total PBCs	1	25	0.02	ND	ND	ND	ND
Total Solids %			83.7	92.8	90.4	84.8	70.5

Notes:

All units in ppm

B- Method Blank Contamination

J- Estimated

U- Non-detect

M- Manually integrated peak

Bold Type Face Exceeds TAGM RSCOs

Shaded values exceed Track 2 Industrial Values

Table 4-2 (p. 5 of 5). Gartock Sealing Technologies Klosure's BCP Site. Surface Soil Sample Results. Pesticides. October 2006.

Analyte	Soil Cleanup		Sample Identification				
	TAGM RSCOs	Track 2 Restricted Industrial	SS-1 10/16/06	SS-2 10/16/06	SS-3 10/16/06	SS-4 10/16/06	SS-5 10/16/06
Pests (ug/Kg)							
alpha BHC	0.11	6.8	U	U	U	U	U
beta-BHC	0.2	14	U	U	U	U	U
delta-BHC	0.3	1000	U	U	U	U	U
gamma-BHC (Lindane)	0.06	23	U	U	U	U	U
Heptachlor	0.1	29	U	U	U	U	U
Aldrin	0.041	1.4	U	U	U	U	U
Heptachlor epoxide	0.02		U	U	U	U	U
Endosulfan I	0.9	920	U	U	0.00064 JH	U	U
Dieldrin	0.044	2.8	0.068	0.00043 J	0.0014 J	0.0031 JM	0.019
4,4'-DDE	2.1	120	0.13 M	0.0015 J	0.0056	0.0072 M	0.0022 J
Endrin	0.1	410	U	U	U	U	U
Endosulfan II	0.9	920	U	U	U	U	U
4,4'-DDD	2.9	180	U	U	U	0.0011 JM	U
Endosulfan sulfate	1	920	U	U	U	U	U
4,4'-DDT	2.1	94	0.15	0.00053 J	0.00082 U	0.003 J	0.0033 U
Methoxychlor			U	U	U	U	U
alpha-Chlordane	0.54	47	U	U	U	U	U
gamma-Chlordane	0.54		U	U	U	U	U
Toxaphene			U	U	U	U	U
Endrin aldehyde			U	U	U	U	U
Endrin ketone			U	U	U	U	U

Notes:

All units in ppm

B- Method Blank Contamination

J- Estimated

U- Non-detect

Bold Type Face Exceeds TAGM RSCOs

Shaded Value exceed Track 2 Industrial Values

Table 4-3 (1 of 4). Garlock Sealing Technologies. Klosure's Building Soil Sample Results.VOC Results.

	TAGM 4046 RSCO	Track 2 Restricted Industrial	B-6 12/15/2005 8-10 ft	B-7 12/21/2005 8 ft	6- 12/21/2005 6-8ft	Dup. B-7 12/21/2005 6-8ft	B-11 12/20/2005 8-10 ft	B-13 12/12/2005 8-10 ft	B-15 12/15/2005 14-16ft	B-18 12/19/2006 14-16ft	B-21 12/21/2006 8-10ft	B-24 12/20/2005 8-10ft	B-24 2/9/2006 12-16ft	B-25 2/9/2006 4-8 ft	B-26 2/9/2006 8-11 ft	B-27 2/9/2006 0-4ft	B-28 2/9/2006 4-8 ft								
VOCs (ppb)																									
1,1,1-trichloroethane	0.8	1,000																							
1,1,2,2-tetrachloroethane	0.6	--																							
1,1,2-trichloroethane	--	--																							
1,1-dichloroethane	0.2	480																							
1,1-dichloroethene	0.4	1,000																							
1,2,4-trichlorobenzene	3.4	--																							
1,2-dibromo-3-chloropropane	--	--																							
1,2-dibromoethane	--	--																							
1,2-dichlorobenzene	7.9	1,000																							
1,2-dichloroethane	0.1	60																							
1,2-dichloropropane	--	--																							
1,3-dichlorobenzene	1.6	560																							
1,4-dichlorobenzene	8.5	250																							
2-butanone	0.3	--																							
2-Hexanone	--	--											0.0014	JB											
4-methyl-2-pentanone	1	--																							
Acetone	0.2	1,000	0.011	J	0.0052	J	0.024			0.0043			0.0039	JB			0.0058	JB							
benzene	0.06	89																							
bromodichloromethane	--	--																							
bromoform	--	--																							
bromomethane	--	--																							
carbon disulfide	2.7	--																							
carbon tetrachloride	0.6	44										0.0019	J				0.00048	J							
chlorobenzene	1.7	1,000																							
chloroethane	1.9	--																							
chloroform (trichloromethane)	0.3	700																							
chloromethane	--	--	0.0057	UJ			0.0058	UJ	0.0055	UJ	0.0067	UJ		0.006											
cis-1,2-dichloroethene	--	1,000																							
cis-1,3-dichloropropene	--	--																							
cyclohexane	--	--																							
Dibromochloromethane	--	--																							
dichlorodifluoromethane	--	--	0.0057	UJ		0.0059	UJ	0.0058	UJ	0.0057	UJ														
ethylbenzene	5.5	780						0.0073	UJ																
Isopropylbenzene	--	--		0.0017	J																				
Methyl acetate	--	--																							
Methyl cyclohexane	--	--																							
Methyl tert butyl ether	--	1,000									0.00072		0.0013	J											
methylene chloride	0.1	1,000	0.0018	J										0.0051	JB	0.0085	B	0.0068	B	0.01	B	0.017	B		
styrene	--	--																							
tetrachloroethylene	1.4	51																							
toluene	1.5	1,000																							
trans-1,2-dichloroethene	0.3	1,000									0.00079	J	0.0024	J									0.00061	J	
trans-1,3-dichloropropene	--	--																						0.00061	J
trichloroethene	0.7	400																						0.0061	J
trichlorofluoromethane (CFC-11)	--	--																						0.0061	J
trifluorotrichloroethane (Freon 113)	6	--																						0.0061	J
vinyl chloride	0.2	27																						0.0061	J
Xylene (total)	1.2	1,000																						0.0061	J

Notes:
All units in ppm
B- Method Blank Contamination
J- Estimated
U- Non-detect
Bold Type Face Exceeds TAGM RSCOs
Shaded Value Exceeds Track 2 Industrial

Data Obtained From February 2006 CRA Tables

Table 4-3 (2 of 4). Garlock Sealing Technologies. Klosure's Building Soil Sample Results.SVOC Results.

SVOCs	TAGM 4046	Track 2 Restricted Industrial	B-6 12/15/2005 8-10 ft	B-7 12/21/2005 6-8 ft	Dup. B-7 12/21/2005 6-8 ft	B-11 12/21/2005 8-10 ft	B-13 12/12/2005 8-10 ft	B-15 12/13/2005 14-16ft	B-18 12/21/2006 8-10ft	B-21 12/20/2005 8-10ft	B-24 2/9/2006 12-16ft	B-25 2/9/2006 4-8 ft	B-26 2/9/2006 8-11 ft	B-27 2/9/2006 0-4ft	B-28 2/9/2006 4-8 ft
2,2'-oxybis (1-Chloropropane)	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,5-trichlorophenol	0.1	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,6-trichlorophenol	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4-dichlorophenol	0.4	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4-dimethylphenol	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4-dinitrophenol	0.2	--	1.8	1.8	1.9	U	U	U	U	1.9	U	U	U	U	U
2,4-dinitrotoluene	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2,6-dinitrotoluene	1	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2-chloronaphthalene	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorophenol	0.8	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2-methylnaphthalene	36.4	--	U	U	U	U	U	U	U	0.065	U	U	U	U	U
2-methylphenol	0.1	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2-nitroaniline	0.43	--	U	U	U	U	U	U	U	U	U	U	U	U	U
2-nitrophenol	0.33	--	U	U	U	U	U	U	U	U	U	U	U	U	U
3,3-dichlorobenzidine	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
3-nitroaniline	0.5	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4,6-dinitro-2-methylphenol	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-bromophenyl phenyl ether	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chloro-3-methylphenol	0.24	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chloroaniline	0.22	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chlorophenyl phenyl ether	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-methylphenol	0.9	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-nitroaniline	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
4-nitrophenol	1	--	1.8	U	U	U	4.6	1.8	U	U	U	U	U	U	U
acenaphthene	50	1,000	U	U	U	U	0.051	0.015	U	U	U	U	U	U	U
acenaphthylene	41	1,000	U	U	U	U	U	U	U	U	U	U	U	U	U
acetophenone	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
anthracene	50	1,000	U	U	U	U	0.021	0.028	1.6	U	U	U	U	U	U
atrazine	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
benzaldehyde	--	--	U	U	U	0.059	U	U	U	U	U	U	U	U	U
benzo(a)anthracene	0.22	11	U	U	U	0.015	1.3	0.1	4.3	U	U	U	U	U	0.021
benzo(a)pyrene	0.06	1.1	U	U	U	0.014	1.4	0.08	3.6	U	U	U	U	U	0.02
benzo(b)fluoranthene	1.1	11	0.024	U	U	0.02	1.8	0.13	4.4	U	U	U	U	U	0.036
benzo(g,h,i)perylene	--	1,000	0.016	U	U	0.014	0.9	0.069	21	U	U	U	U	U	U
benzo(k)fluoranthene	1.1	11	U	U	U	0.0068	0.81	0.074	1.8	U	U	U	U	U	U
biphenyl	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-chloroethoxy)methane	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-chloroethyl) ether	--	--	0.38	U	U	U	0.96	0.37	U	U	U	U	U	U	U
bis(2-ethylhexyl) phthalate	500	--	5.6	0.6	1.1	1.5	0.751	1	0.46	0.61	0.087	0.034	0.12	0.095	0.039
butyl benzyl phthalate	500	--	U	U	U	U	U	U	U	U	U	U	U	U	U
Caprolactam	--	--	U	U	U	U	U	U	U	U	U	U	U	0.051	0.083
carbazole	--	--	U	U	U	U	0.17	0.045	U	U	U	U	U	U	U
chrysene	0.4	110	U	U	U	0.019	1.5	0.11	4.1	U	U	U	U	U	0.029
dibenz(a,h)anthracene	0.01	1.1	U	U	U	U	0.11	U	0.57	U	U	U	U	U	U
dibenzofuran	6.2	--	U	U	U	U	U	U	0.19	U	U	U	U	U	U
diethyl phthalate	7.1	--	U	U	U	U	U	U	U	U	U	U	U	U	U
dimethyl phthalate	2	--	U	U	U	U	U	U	U	U	U	U	U	U	U
di-n-butylphthalate	8.1	--	U	U	U	U	U	U	U	U	U	U	U	U	U
di-n-octylphthalate	50	--	U	U	U	U	U	U	U	U	U	U	U	U	U
fluoranthene	50	1,000	0.033	U	U	0.039	3.2	0.33	8.4	U	U	U	U	U	0.046
fluorene	50	1,000	U	U	U	U	0.59	U	0.33	U	U	U	U	U	U
hexachlorobenzene	0	12	U	U	U	U	U	U	U	U	U	U	U	U	U
hexachlorobutadiene	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
hexachlorocyclopentadiene	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
hexachloroethane	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
indeno(1,2,3-cd)pyrene	3.2	11	U	U	U	U	U	U	U	U	U	U	U	U	U
isophorone	4.4	--	U	U	U	0.0087	0.77	0.063	1.9	U	U	U	U	U	U
naphthalene	13	1,000	U	U	U	U	U	U	U	U	U	U	U	U	U
nitrobenzene	0.2	--	U	U	U	U	U	U	U	U	U	U	U	U	U
n-nitrosodi-n-propylamine	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
n-nitrosodiphenylamine	--	--	U	U	U	U	U	U	U	U	U	U	U	U	U
pentachlorophenol	1	55	U	U	U	U	U	U	U	U	U	U	U	U	U
phenanthrene	50	1,000	0.017	U	U	0.021	1.3	0.23	4.3	U	U	U	U	U	0.028
phenol	0.03	1,000	U	U	U	0.036	U	U	U	U	U	U	U	U	U
pyrene	50	1,000	0.025	U	U	0.032	2.6	0.25	6.7	U	U	U	U	U	0.035

Notes:

B- Method Blank Contamination

J- Estimated

U- Non-detect

Bold Type Face Exceeds TAGM RSCOs

Shaded Value Exceeds Track 2 Industrial

Data Obtained From February 2006 CRA Tables

Table 4-3 (3 of 4). Garlock Sealing Technologies. Klosure's Building Soil Sample Results. Metals Results.

Metals (mg/Kg)	TAGM 4046	Track 2 Restricted Industrial	B-6 12/15/2005 8-10 ft.	B-7 12/21/2005 6-8 ft.	Dup. B-7 12/21/2005 6-8 ft.	B-11 12/20/2005 8-10 ft.	B-13 12/12/2005 8-10 ft.	B-15 12/13/2005 14-15 ft.	B-18 12/19/2005 14-16 ft.	B-21 12/21/2006 8-10ft	B-24 12/20/2005 8-10ft	B-24 2/9/2006 12-16ft	B-25 2/9/2006 4-8 ft	B-26 2/9/2006 8-11 ft	B-27 2/9/2006 0-4ft	B-28 2/9/2006 4-8 ft
Aluminum	--	--	3,660	11,500	12,600	6,820	8,480	10,500	2,190	15,700	15,200	10,200	17,100	14,200	12,500	10,100
Antimony	--	--	6.9	U	U	U	8.7	6.7	U	0.44	J	U	U	U	U	U
Arsenic	7.5	16	2	4.4	6.7	3.3	3.6	6	1.5	1.1	J	9.2	8.5	1.1	5.3	4.7
Barium	300	10,000	26	24	26.5	17.1	62.1	33	13.7	26.8	100	26.8	44.9	29.4	41	73.3
Beryllium	0.16	2,700	U	0.34	0.39	0.24	0.26	0.35	U	0.46	0.53	0.3	0.5	0.4	0.4	0.4
Cadmium	1	60	0.14	J	U	U	0.37	0.19	U	U	U	U	U	U	U	U
Calcium	--	--	41,900	J	69,800	13,100	J	J	J	J	J	41,600	J	26,100	J	2,420
Chromium Total	10	6,800	17.9	18.8	20	10	13.6	18	3.7	25.9	21.8	17.2	27.1	22.5	19.4	14.3
Cobalt	30	--	3.3	J	8.6	5.4	J	5.4	2.1	24.4	8.9	9.5	12.2	15.1	9.2	6.3
Copper	25	10,000	11.9	11.9	10.9	14.9	17.2	18.2	4.8	19.4	5	16.1	20.4	5.4	15.3	12.3
Iron	2,000	--	10,900	18,500	20,100	12,700	14,500	19,700	5,680	23,300	20,700	18,500	25,900	19,900	21,000	16,000
Lead	--	3,900	4.5	12.1	19.5	11.2	35.5	10.7	3.4	4.1	3.4	23	23.9	2.3	17.9	20
Magnesium	--	--	16,100	23,800	29,500	39,900	6,150	37,600	13,600	14,200	34,100	30,100	J	27,900	J	3,780
Manganese	--	10,000	351	272	376	466	499	981	252	275	420	439	J	351	J	819
Mercury	0.1	5.7	0.025	J	U	U	0.065	0.017	U	0.029	J	0.1	B	0.029	B	0.1
Nickel	13	10,000	7.7	23.9	27.1	13.9	13.8	22	3.9	43.7	29.6	29.2	35.4	30.5	21.5	14.7
Potassium	--	--	913	2,560	2,870	1,710	1,620	3,110	572	3,200	5,970	2,500	2,930	3,420	2,260	1,210
Selenium	2	6,800	U	U	U	U	0.45	J	U	U	U	U	U	U	U	U
Silver	--	6,800	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Sodium	--	--	91	J	92.8	443	J	57.5	J	436	J	96.3	B	46.1	B	U
Thallium	--	--	U	J	1	2	U	U	J	0.89	J	0.8	B	0.9	U	U
Vanadium	150	--	9.5	12.9	14	10.1	15.3	13	6.8	15.7	17.1	14.2	18.4	14.9	18.6	16.6
Zinc	20	10,000	33.9	33.5	34.7	53.6	87.8	26.8	25.2	40	33.1	95.5	74	41	49.7	74
Cyanide (total)	--	--										0.1	J	0.1	BJ	0.1

Notes
All units in ppm
B- Estimated
J- Method Blank Contamination
U- Non-detect
Bold Type Face Exceeds TAGM RSCOs
Shaded Value Exceeds Track 2 Industrial

Data Obtained From February 2006 CRA Tables

Table 4-3 (4 of 4). Garlock Sealing Technologies. Klosure's Building Soil Sample Results. PCB Results.

PBCs (umg/Kg)	Track 2 TAGM RSCOs	Track 2 Restricted Industrial	B-6 12/15/2005 8-10	B-7 12/21/2005 6-8	Dup. B-7 12/21/2005 6-8	B-11 12/20/2005 8-10	B-13 12/12/2005 8-10	B-15 12/13/2005 14-16	B-18 12/19/2005 14-16	B-21 12/21/2005 8-10	B-24 12/10/2005 8-10	B-24 2/9/2006 12-16ft	B-25 2/9/2006 4-8 ft	B-26 2/9/2006 8-11 ft	B-27 2/9/2006 0-4ft	B-28 2/9/2006 4-8 ft
Aroclor 1016			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1221			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1232			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1242			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1248			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1254			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Aroclor 1260			U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total PCBs	10	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Solids			87.4	87.8	84.5	86.8	68.9	90.1	87.8	83	8.2	76.1	80.1	84.8	85.1	75.1

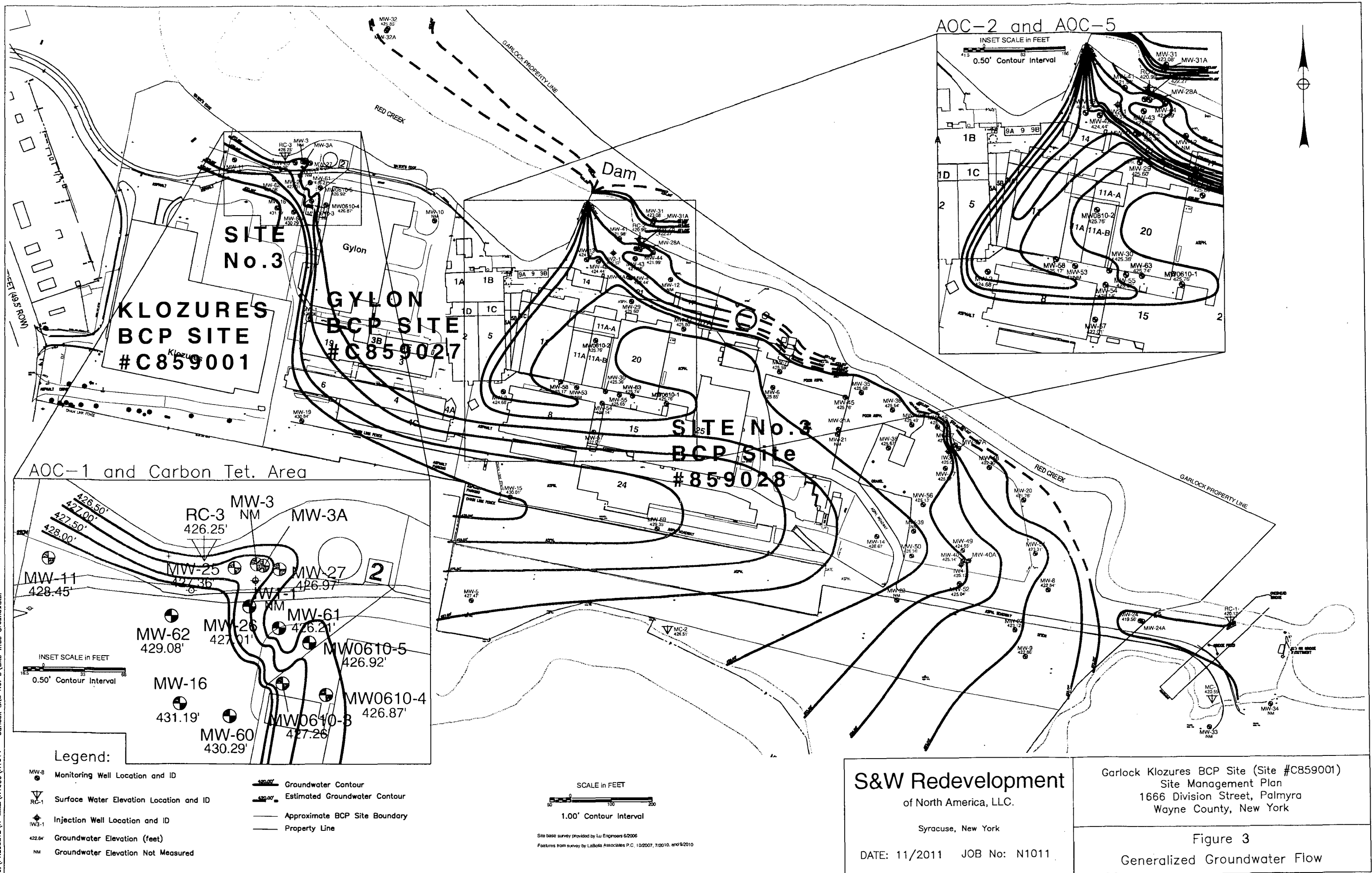
Notes:
All units in ppm
B- Method Blank Contamination
J- Estimated
U- Non-detect
Bold Type Face Exceeds TAGM RSCOs
Shaded Value Exceeds Track 2 Industrial

Data Obtained From February 2006 CRA Tables

APPENDIX E

REMEDIAL INVESTIGATION GROUNDWATER DATA

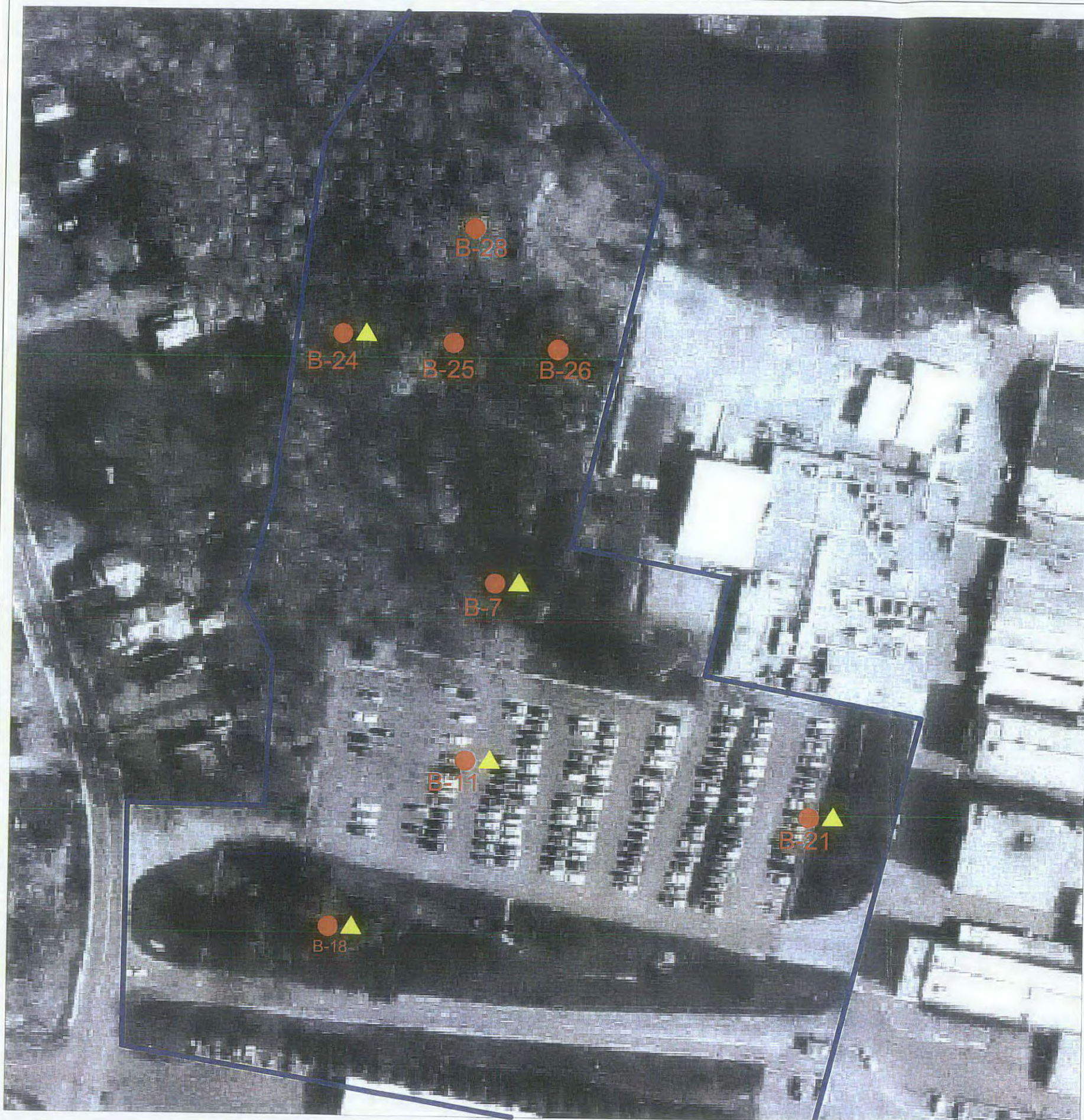
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2010/sep/syt/iam
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S&W Redevelopment
of North America, LLC.
Syracuse, New York
DATE: 11/2011 JOB No: N1011

Garlock Klozures BCP Site (Site #C859001)
Site Management Plan
1666 Division Street, Palmyra
Wayne County, New York
Figure 3
Generalized Groundwater Flow

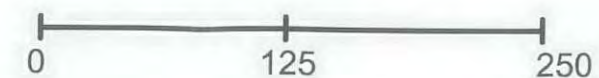
X-REF: NAMES?
2006/november/syracuse/AM
J:\PROJECTS\N-xxxx\N6000\N6000- Garlock Palmyra\N6009- Garlock Site\Figures\Garlock Fig 3-2.dwg



-  Groundwater Samples (Location Approximate)
-  Soil Vapor Well
-  Approximate Site Boundary



SCALE in FEET



S&W Redevelopment
of
North America, LLC
Syracuse, New York




DATE:11/2006 JOB No: N6009

Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

FIGURE 3-2
Groundwater and Soil Vapor Well Locations

X-REF: NAMES?
YR/MO LOCATION ORIGINATOR NAME REV MADE BY NAME
DRAWING PATH, WITH NAME AND EXTENSION



-  PZ-15 (491.24) Piezometer (groundwater elevation)
-  Groundwater Contour (feet)
-  Klozures Site Boundary

Note: Based on a Conestoga-Rover and Associates potentiometric contour figure included in the Garlock Sealing Technologies February 2006 Site Investigation Work Plan

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North America, LLC

Syracuse, New York

DATE:11/2006

JOB No:N6009

Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

FIGURE 4-1
Groundwater Flow Contours

X-REF: NAMEST
2006/november/syracuse/AM
J:\PROJECTS\N-xxxx\N6000\N6008-N6009 - Garlock Palmyra\N6009 - Garlock Site\Figures\Garlock Fig 4-3.dwg



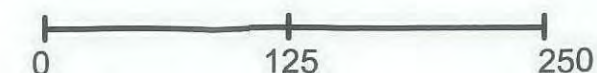
Groundwater Sample
Analyte - mg/kg



Approximate Site Boundary



SCALE in FEET



S&W Redevelopment
of
North America, LLC

Syracuse, New York

DATE:11/2006

JOB No: N6009

Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

FIGURE 4-3
Groundwater Exceedances (Metals)

Table 4-4 (1 of 4). Garlock Sealing Technologies BCP Site. Klosure's Building Groundwater Sample Results. VOC Results.

VOCs (ppb)	NYS TOGS Water Quality Standard	B-25 2/10/2006	B-26 2/10/2006	B-28 2/10/2006	B-28 duplicate 2/10/2006	B-7 12/22/2006	B-11 12/21/2006	B-18 12/19/2006	B-21 12/21/2006	B-24 12/21/2006	B-24 Duplicate 12/20/2006
1,1,1-trichloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	5	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	5	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U
1,2-dibromoethane	0.0006	U	U	U	U	U	U	U	U	U	U
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U
2-butanone	50	1.4 J	0.51 J	0.75 J	U	2.3 J	2.5 J	1.2 J	1.7 J	0.89 J	1.4 J
2-Hexanone	50	U	U	U	U	U	U	U	U	U	U
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U
Acetone	50	6.3 JB	1.8 JB	2.8 JB	2.3 JB	10	11	U	6.1 J	U	U
benzene	1	U	U	U	U	2.6	U	U	U	U	0.53 J
bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U
bromoform	50	U	U	U	U	U	U	U	U	U	U
bromomethane (methyl bromide)	5	U	U	U	U	1	U	U	U	U	U
carbon disulfide	60	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U
chloroform (trichloromethane)	7	U	U	U	U	U	U	U	U	U	U
chloromethane	5	U	U	0.15 J	0.17 J	1	U	U	U	U	U
cis-1,2-dichloroethene	5	U	U	U	U	U	U	U	U	U	U
cis-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U
cyclohexane	--	U	0.15 J	0.12 J	U	U	U	0.18 J	0.14 J	0.17 J	0.24 J
Dibromochloromethane	5	U	U	U	U	U	U	U	U	U	U
dichlorodifluoromethane	5	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5	U	U	U	U	0.69 J	U	U	U	U	U
isopropylbenzene	5	U	U	U	U	U	U	U	U	U	U
Methyl acetate	--	U	U	U	U	U	U	U	U	U	U
Methyl cyclohexane	--	U	U	U	U	U	U	U	U	U	U
Methyl tert butyl ether	10	U	U	U	U	U	U	U	U	U	U
methylene chloride	5	U	U	U	U	U	U	U	U	U	U
styrene	5	U	U	U	U	0.4 J	U	U	U	U	U
tetrachloroethylene	5	U	U	U	U	U	U	U	U	U	U
toluene	5	U	U	U	U	0.46	U	0.24 J	0.2 J	0.34 J	0.4 J
trans-1,2-dichloroethene	5	U	U	U	U	U	U	U	U	U	U
trans-1,3-dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U
trichloroethene	5	U	U	U	U	U	U	U	U	U	U
trichlorofluoromethane (CFC-11)	5	U	U	U	U	U	U	U	U	U	U
trifluorotrichloroethane (Freon 113)	5	U	U	U	U	U	U	U	U	U	U
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U
Xylene (total)	--	U	U	U	U	4.6	U	U	U	U	U

Data Obtained From February 2006 CRA Tables
Groundwater Sampling February 2006-VOC

Notes:

B- Method Blank Contamination

J- Estimated

U- Non-detect

Exceeds Standard

Table 4-4 (2 of 4) Garlock Sealing Technologies BCP Site, Klosure's Building Groundwater Sample Results, SVOC Results.

SVOCs (ppb)	NYS TOGS Water Quality Standard	B-25 2/10/2006	B-26 2/10/2006	B-28 2/10/2006	B-28 duplicate 2/10/2006	B-7 12/22/2006	B-11 12/21/2006	B-18 12/19/2006	B-21 12/21/2006	B-24 12/21/2006	B-24 Duplicate 12/20/2006
2,2'-oxybis (1-Chloropropane)	5	U	U	U	U	U	U	U	U	U	U
2,4,5-trichlorophenol	--	U	U	U	U	U	U	U	U	U	U
2,4,6-trichlorophenol	--	U	U	U	U	U	U	U	U	U	U
2,4-dichlorophenol	5	U	U	U	U	U	U	U	U	U	U
2,4-dimethylphenol	50	U	U	U	U	U	U	U	U	U	1.3 J
2,4-dinitrophenol	10	U	U	U	U	50	100	U	U	U	U
2,4-dinitrotoluene	5	U	U	U	U	U	U	U	U	U	U
2,6-dinitrotoluene	5	U	U	U	U	U	U	U	U	U	U
2-chloronaphthalene	10	U	U	U	U	U	U	U	U	U	U
2-chlorophenol	--	U	U	U	U	U	U	U	U	U	U
2-methylnaphthalene	--	U	U	U	U	0.82 J	1.1 J	0.55 J	U	1.1 J	1 U
2-methylphenol	--	U	U	U	U	1 J	1.7 J	U	U	2.1 J	2.4 J
2-nitroaniline	5	U	U	U	U	U	U	U	U	U	U
2-nitrophenol	--	U	U	U	U	U	U	U	U	U	U
3,3-dichlorobenzidine	5	U	U	U	U	U	U	U	U	U	U
3-nitroaniline	5	U	U	U	U	U	U	U	U	U	U
4,6-dinitro-2-methylphenol	--	U	U	U	U	U	U	U	U	U	U
4-bromophenyl phenyl ether	--	U	U	U	U	U	U	U	U	U	U
4-chloro-3-methylphenol	--	U	U	U	U	U	U	U	U	U	U
4-chloroaniline	5	U	U	U	U	U	U	U	U	U	U
4-chlorophenyl phenyl ether	--	U	U	U	U	U	U	U	U	U	U
4-methylphenol	--	U	U	U	U	2.5 J	4.8 J	0.83 J	U	7.5 J	8.1 J
4-nitroaniline	5	U	U	U	U	U	U	U	U	U	U
4-nitrophenol	--	U	U	U	U	U	U	U	U	U	U
acenaphthene	20	U	U	U	U	U	U	7.1 J	U	U	U
acenaphthylene	--	U	U	U	U	U	U	U	0.97 J	U	0.7 J
acetophenone	--	U	U	U	U	U	U	U	U	U	U
anthracene	50	U	U	U	U	U	U	2.8 J	U	0.41 J	0.32 J
atrazine	7.5	U	U	U	U	U	U	U	U	U	U
benzaldehyde	--	U	U	U	U	U	U	1.5 J	U	1.6 J	1.7 J
benzo(a)anthracene	0.002	U	U	U	U	U	U	2.2 J	U	0.36 J	0.25 J
benzo(a)pyrene	ND	U	U	U	U	U	U	1.4 J	U	0.29 J	U
benzo(b)fluoranthene	0.002	U	U	U	U	U	U	1.9 J	U	0.32 J	0.23 J
benzo(g,h,i)perylene	--	U	U	U	U	U	U	0.74 J	U	U	U
benzo(k)fluoranthene	0.002	U	U	U	U	U	U	0.86 J	U	U	U
biphenyl	5	U	U	U	U	U	U	U	U	U	U
bis(2-chloroethoxy)methane	5	U	U	U	U	U	U	U	U	U	U
bis(2-chloroethyl) ether	1	U	U	U	U	U	U	U	U	U	U
bis(2-ethylhexyl) phthalate	5	5.7 J	U	1.1 J	1.1 J	35	U	U	35	U	U
butyl benzyl phthalate	50	U	U	U	U	U	U	U	U	U	U
Caprolactam	--	2.1 JB	2.9 JB	3.4 JB	2 JB	0.77 J	U	1.3 J	U	U	U
carbazole	--	U	U	U	U	U	U	1 J	U	U	U
chrysene	0.002	U	U	U	U	U	U	2.2 J	U	0.45 J	0.23 J
dibenz(a,h)anthracene	--	U	U	U	U	U	U	0.2 J	U	U	U
dibenzofuran	--	U	U	U	U	U	U	1 J	U	U	U
diethyl phthalate	50	U	U	U	U	U	U	U	U	U	U
dimethyl phthalate	50	U	U	U	U	U	U	U	U	U	U
di-n-butylphthalate	50	U	U	U	U	0.97 J	1.2 J	U	U	U	0.68 J
di-n-octylphthalate	50	U	U	U	U	U	U	U	U	U	U
fluoranthene	50	U	U	U	0.58 JB	U	U	9.7 J	U	1.9 J	1.3 J
fluorene	50	U	U	U	U	U	U	1.6 J	U	0.74 J	0.64 J
hexachlorobenzene	0.04	U	U	U	U	U	U	U	U	U	U
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U
hexachlorocyclopentadiene	5	U	U	U	U	U	U	U	U	U	U
hexachloroethane	5	U	U	U	U	U	U	U	U	U	U
indeno(1,2,3-cd)pyrene	0.002	U	U	U	U	U	U	0.71 J	U	U	U
isophorone	50	U	U	U	U	U	U	U	U	U	U
naphthalene	10	0.48 J	U	U	U	0.68 J	1.1 J	0.59 J	U	1 J	0.92 J
nitrobenzene	0.4	U	U	U	U	U	U	U	U	U	U
n-nitrosodi-n-propylamine	--	U	U	U	U	U	U	U	U	U	U
n-nitrosodiphenylamine	50	U	U	U	U	U	U	U	U	U	U
pentachlorophenol	1	U	U	U	U	U	U	U	U	U	U
phenanthrene	50	0.87 J	U	U	0.54 J	0.45 J	1.1 J	9.3 J	U	2.6 J	2.2 J
phenol	1	U	U	U	U	4.5 J	8.2 J	2 J	U	14 J	15 J
pyrene	50	U	U	U	0.44 JB	U	U	7 J	U	1.4 J	1 J

Notes:
 B- Method Blank Contamination
 J- Estimated
 U- Non-detect
 Exceeds Standard

Data Obtained From February 2006 CRA Tables
 Groundwater Sampling February 2006-SVOCs

Table 4-4 (3 of 4) Garlock Sealing Technologies BCP Site. Klosure's Building Groundwater Sample Results. Metal Results.

Metals (ug/L)	NYS TOGS Water Quality Standard	B-25 2/10/2006 ug/L	B-26 2/10/2006 ug/L	B-28 2/10/2006 ug/L	B-28 duplicate 2/10/2006 ug/L	B-7 12/22/2006 ug/L	B-11 12/21/2006 ug/L	B-11 Duplicate 12/21/2005 ug/L	B-18 12/19/2006 ug/L	B-21 12/21/2006 ug/L	B-24 12/21/2006 ug/L
Aluminum	--	205,000	332,000	147,000	45,600	21,300	1,330	4,320	175,000	33,900	316,000
Antimony	3	U	U	U	U	U	U	U	60	U	5.3
Arsenic	25	185	63.7	62.1	18.9	4.7	J	U	31.5	7	53.1
Barium	1,000	1,070	655	933	274	191	J	130	596	438	1950
Beryllium	3	8.2	12.9	7.2	2.7	0.87	J	U	6.8	1.9	12
Cadmium	5	U	U	U	U	U	U	U	3.2	0.83	9
Calcium	--	576,000	578,000	253,000	177,000	207,000	531,000	365,000	887,000	321,000	1,000,000
Chromium Total	50	330	476	226	68.5	61.9	10.2	17.8	314	67.5	650
Cobalt	--	99.7	169	82.2	24.6	20.5	J	13	86.3	41.5	351
Copper	200	214	199	156	43.6	65.5	J	86.8	186	60.5	458
Iron	300	293,000	377,000	182,000	56,800	42,000	54,400	60,100	229,000	49,300	589,000
Lead	25	265	198	189	53	33.3	31.2	32.6	117	29	162
Magnesium	35,000	413,000	672,000	192,000	102,000	102,000	131,000	106,000	449,000	170,000	674,000
Manganese	300	4,580	6,020	10,900	5,540	2,180	2,150	2,050	5,280	2990	105,000
Mercury	0.7	0.81	1.1	0.58	0.16	75.6	U	U	0.45	U	0.87
Nickel	100	362	568	241	75.6	71	48.1	44.7	247	76.7	679
Potassium	--	66,900	99,300	42,000	16,800	30,500	54,300	68,200	203,000	35,900	153,000
Selenium	10	U	U	U	U	U	U	U	U	U	U
Silver	50	U	U	U	U	U	U	U	U	U	U
Sodium	20,000	10,600	46,700	34,300	33,700	159,000	435,000	503,000	772,000	695,000	906,000
Thallium	0.5	9.9	9.4	21.7	11.1	U	7	10.7	U	10.4	8.6
Vanadium	--	261	333	189	59.7	27	2.3	6	217	40	392
Zinc	2,000	710	1,090	1,320	366	127	211	350	941	294	1,100

Notes

B- Estimated

J-Method Blank Contamination

U- Non-detect

Exceeds Standard

Data Obtained From February 2006 CRA Tables
Groundwater Sampling February 2006-Metals

Table 4-4 (4 of 4). Garlock Sealing Technologies BCP Site. Klosure's Building Groundwater Sample Results. PCB Results.

PCBs (ug/L)	NYS TOGS Water Quality Standard	B-25 2/10/2006 ppb	B-26 2/10/2006 ppb	B-28 2/10/2006 ppb	B-28 2/10/2006 ppb	B-7 12/22/2006 ug/L	B-11 12/21/2006 ug/L	B-11 Duplicate 12/21/2005 ug/L	B-18 12/19/2006 ug/L	B-21 12/21/2006 ug/L	B-24 12/21/2006 ug/L
Aroclor 1016	--	U	U	U	U	U	U	U	U	U	R
Aroclor 1221	--	U	U	U	U	U	U	U	U	U	R
Aroclor 1232	--	U	U	U	U	U	U	U	U	U	R
Aroclor 1242	--	0.37 J	0.2 J	U	U	U	U	U	U	U	R
Aroclor 1248	--	U	U	U	U	U	U	U	U	U	R
Aroclor 1254	--	U	U	U	U	U	U	U	U	U	R
Aroclor 1260	--	U	U	U	U	U	U	U	U	U	R
Total PCBs	0.09	0.37	0.2	0	0	0	0	0	0	0	0

Notes

U- Non-detect
J- Method Blank Contamination
PBCs - Polychlorinated biphenyls

Data Obtained From February 2006 CRA Tables
Groundwater Sampling February 2006- PCBs

Exceeds Standard

APPENDIX F

REMEDIAL INVESTIGATION SOIL VAPOR DATA

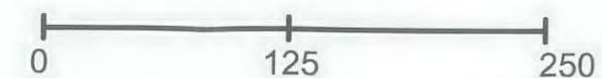
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2006/november/syracuse/AM
J:\PROJECTS\N-xxxx\N6000\N6000- Garlock Palmyra\N6009- Garlock Site\Figures\Garlock Fig 3-2.dwg



- Groundwater Samples (Location Approximate)
- Soil Vapor Well
- Approximate Site Boundary



SCALE in FEET



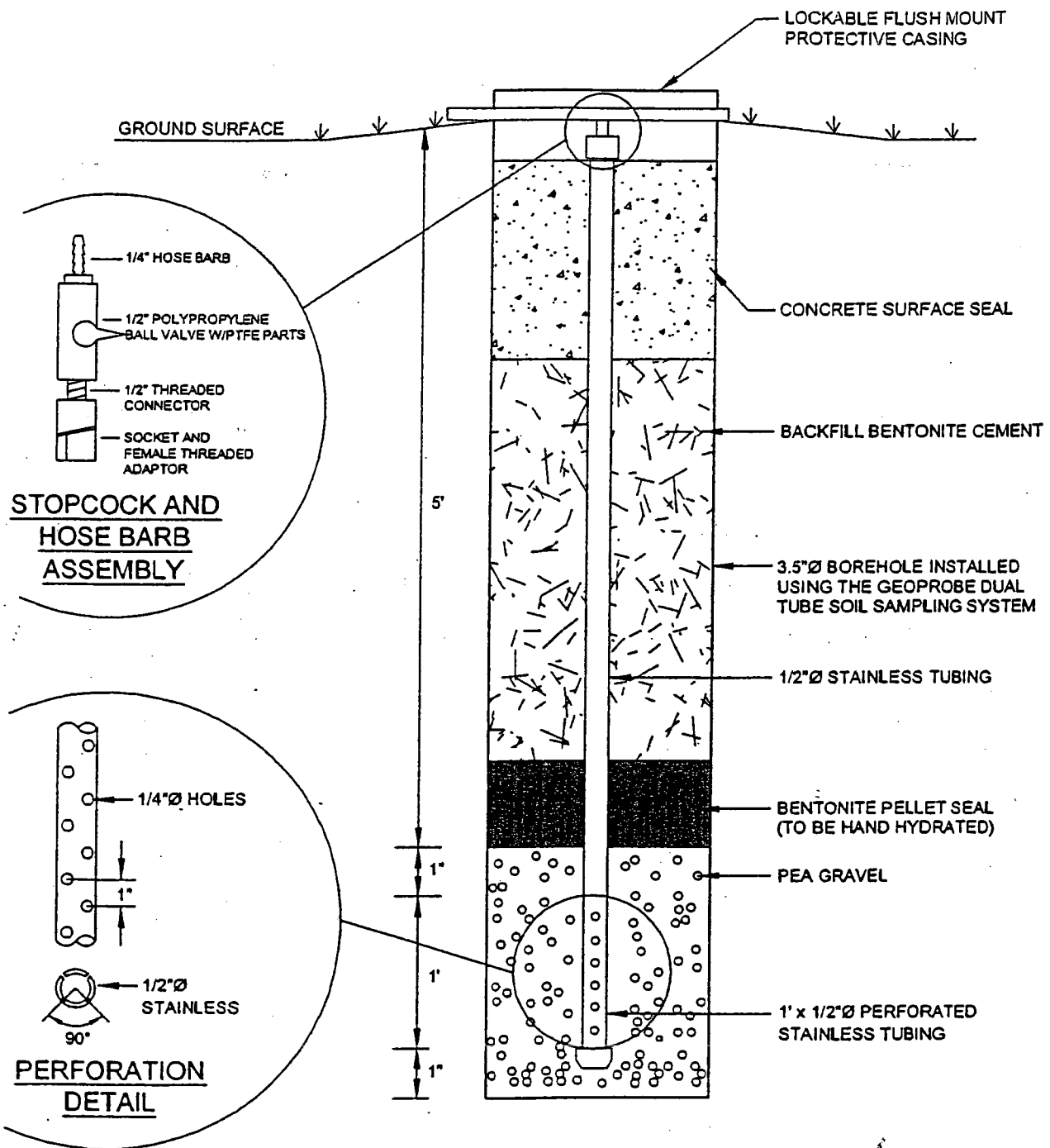
S&W Redevelopment
of
North America, LLC

Syracuse, New York

DATE:11/2006 JOB No:N6009

Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

FIGURE 3-2
Groundwater and Soil Vapor Well Locations



NOTE: CONNECTIONS AND ADAPTORS ARE NOT TO BE GLUED

S&W Redevelopment
of
North America, LLC

Syracuse, New York

DATE: 11/2006

JOB No: N6009

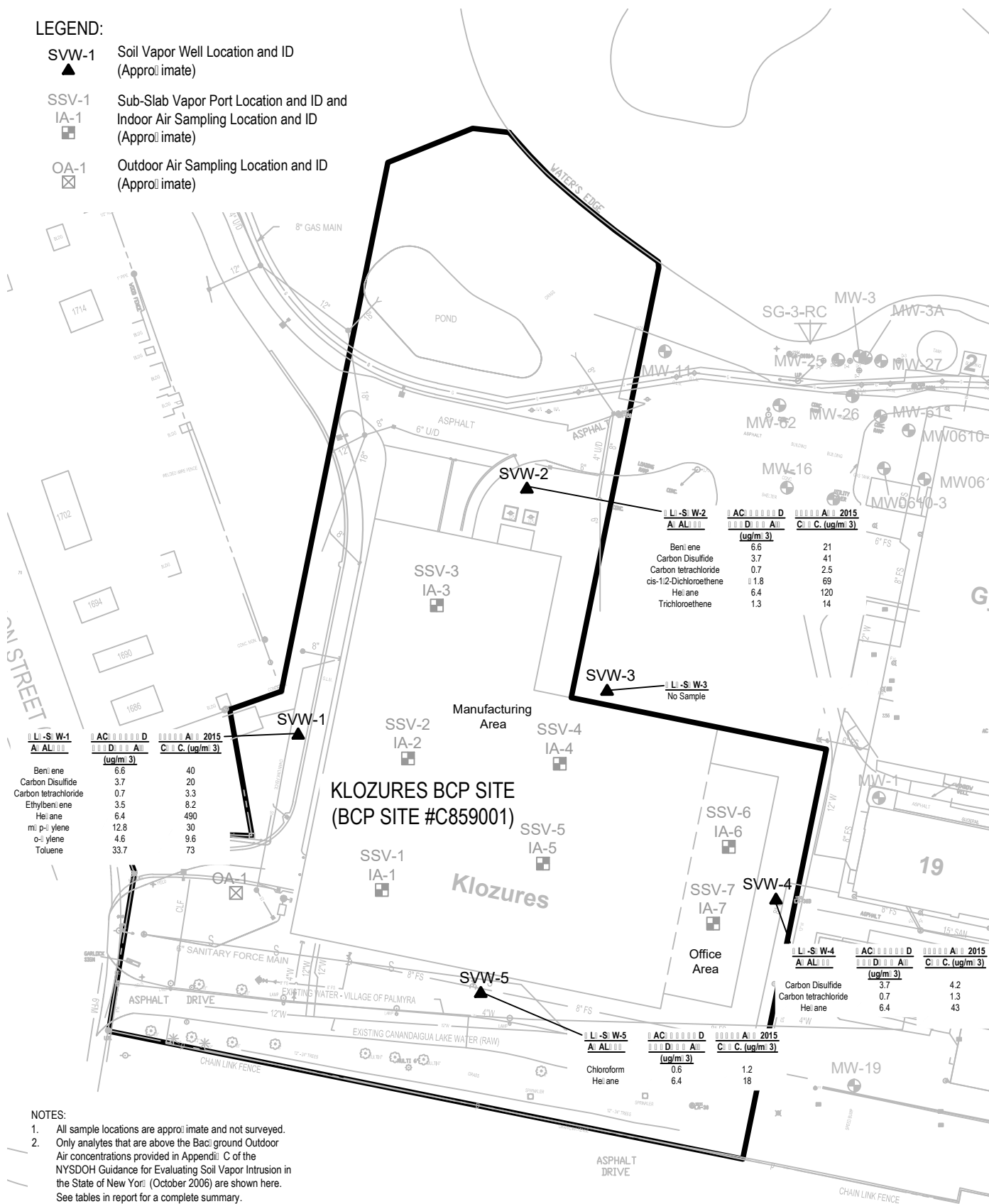
Garlock Site
1666 Division Street
Wayne County
Palmyra, New York

Figure 3-3
Soil Vapor Well Construction



LEGEND:

- SVW-1 Soil Vapor Well Location and ID (Approximate)
- SSV-1 Sub-Slab Vapor Port Location and ID and Indoor Air Sampling Location and ID (Approximate)
- OA-1 Outdoor Air Sampling Location and ID (Approximate)



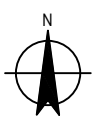
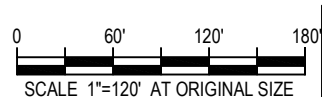
Garlock Sealing Technologies
SVI Evaluation
Klozures BCP Site (#859001)

Soil Vapor Well Sample Results

Job Number 86-15140
Revision A
Date 03.10.2015

Figure 3

SVW-1 ▲	Soil Vapor Well Location and ID (Approximate)
SSV-1 IA-1 ■	Sub-Slab Vapor Port Location and ID and Indoor Air Sampling Location and ID (Approximate)
OA-1 ⊗	Outdoor Air Sampling Location and ID (Approximate)



Job Number | 86-15140
Revision | A
Date | 03.10.2015

Figure 4

Table 4-5. Garlock Sealing Technologies Kiozure's BCP Site. Soil Vapor Screening Results.VOCs.

Analyte VOC's	Sample Identification				
	B-7 B16	B-11 B2	B-18 B9	B-21 B13	B-24 B12
	12/30/2005	12/30/2005	12/30/2005	12/30/2005	12/30/2005
1,1,1-trichloroethane		0.47			1.2
1,1,2,2-tetrachloroethane					
1,1,2-trichloroethane					
1,1-dichloroethane					
1,1-dichloroethene					
1,2,4-trichlorobenzene					
1,2,4-trimethylbenzene	1.8	1.6	4.9	1.7	1.5
1,2-dibromoethane (ethylene dibromide)					
1,2-dichlorobenzene					
1,2-dichloroethane					
1,2-dichloropropane					
1,2-dichlorotetrafluoroethane (CFC 114)					
1,3,5-trimethylbenzene	0.61	0.52		0.49	0.54
1,3-butadiene					
1,3-dichlorobenzene					
1,4-dichlorobenzene	0.78	0.44		0.71	0.8
1,4- dioxane					
2-butanone (MEK)	3	6.2	920	2.8	6.2
2-Hexanone		0.41	4.3		
4- ethyl toluene	1.7	1.8	3.2	1.7	1.6
4-methyl-2-pentanone (MIK)			160		
Acetone	9.7	14	100	5.8	62
benzene	3.6	2.9	150	11	6.7
benzyl chloride					
bromodichloromethane					
bromoform					
bromomethane (methyl bromide)					
carbon disulfide	0.92	1.5	39	34	50
carbon tetrachloride					
chlorobenzene					
chloroethane					
chloroform (trichloromethane)	3.2	6.2	5.8	3.2	4.3
chloromethane (methyl chloride)	0.32	0.22			
cis-1,2-dichloroethene					
cis-1,3-dichloropropene					
cyclohexane	1.2	1.7	150	27	17
Dibromochloromethane					
dichlorodifluoromethane (CFC-12)	1.2	0.83	1.6	0.5	
ethanol	13	19	140	15	20
ethylbenzene	1.8	2.3	4	2.2	1.9
hexachlorobutadiene					
hexane	2.6	2.9	230	29	4.6
Isopropyl alcohol (manufacturing-strong acid)	7.6	4.7	4	3.6	6.3
Isopropylbenzene	0.49				
m & P- xylene	7.7	9.2	11	8.8	8.3
Methyl tert butyl ether	0.76	1.1	1.8	0.84	1.1
methylene chloride	0.48	0.36			
n-Heptane	1.2	2.4	48	5.4	1.8
n-propylbenzene	0.43	0.51	2.2	0.38	0.43
o-xylene	2.2	2.9	5.8	2.3	2.3
styrene					
tetrachloroethene	0.93	0.95		1.2	0.91
tetrahydrofuran	3.4	5.4			4.3
toluene	17	20	75	25	32
trans-1,2-dichloroethene					
trans-1,3-dichloropropene					
trichloroethene	0.46	0.51		0.88	1.2
trichlorofluoromethane (CFC-11)	1.3	0.49	4.4	2.2	1.5
trifluorotrichloroethane (Freon 113)					
vinyl chloride					
helium (%)	0.27	4	0.14	0.086	0.14

Notes:

Values in ug/m³

J- estimated

U- non-detect at associated value

Tables adapted based on data provided in Conestoga-Rovers & Associates February 23, 2006 Supplemental Site Investigation Report.

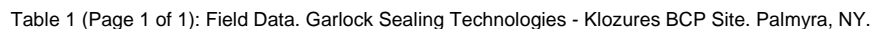
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Table 2 (Page 1 of 1): Summary of Soil Vapor Well Laboratory Analytical Results. Garlock Sealing Technologies - Klozures BCP Site, Palmyra, NY.

ANALYTE (ug/m ³)	Air Guideline Values*	Background Outdoor Air**	Background Indoor Air***	SAMPLE IDENTIFICATION				
				KLZ-SVV-1	KLZ-SVV-2	KLZ-SVV-3	KLZ-SVV-4	KLZ-SVV-5
Sample Date				2/7/2015	2/7/2015	2/7/2015	2/7/2015	2/7/2015
				R.L.	R.L.	R.L.	R.L.	R.L.
VOCs by EPA Method TO-15								
1,1,1-Trichloroethane		2.6	20.6	0.60 J	U 0.82	-	U 0.82	0.55 J
1,1,2,2-Tetrachloroethane				U 1	U 1	-	U 1	U 1
1,1,2-Trichloroethane		<1.6	<1.5	U 0.82	U 0.82	-	U 0.82	U 0.82
1,1-Dichloroethane		<0.6	<0.7	UJ 0.61	UJ 0.61	-	UJ 0.61	UJ 0.61
1,1-Dichloroethene		<1.4	<1.4	U 0.59	U 0.59	-	U 0.59	U 0.59
1,2,4-Trichlorobenzene		<6.4	<6.8	U 1.1	U 1.1	-	U 1.1	U 1.1
1,2,4-Trimethylbenzene		5.8	9.5	3.5	2.7	-	2.8	2.8
1,2-Dibromoethane		<1.6	<1.5	U 1.2	U 1.2	-	U 1.2	U 1.2
1,2-Dichlorobenzene		<1.2	<1.2	U 0.9	U 0.9	-	U 0.9	U 0.9
1,2-Dichloroethane		<0.8	<0.9	U 0.61	U 0.61	-	U 0.61	U 0.61
1,2-Dichloropropane		<1.6	<1.6	U 0.69	U 0.69	-	U 0.69	U 0.69
1,3,5-Trimethylbenzene		2.7	3.7	2.3	1.3	-	1.1	1.1
1,3-butadiene		<3.4	<3.0	U 0.33	U 0.33	-	U 0.33	U 0.33
1,3-Dichlorobenzene		<2.2	<2.4	U 0.9	U 0.9	-	U 0.9	U 0.9
1,4-Dichlorobenzene		1.2	5.5	U 0.9	U 0.9	-	U 0.9	1.5
1,4-Dioxane				U 1.1	U 1.1	-	U 1.1	U 1.1
2,2,4-trimethylpentane				23	13	-	7.1	0.61 J
4-ethyltoluene	3	3.6	3.6	1.7	1.0	-	1.1	0.88
Acetone	43.7	98.9	98.9	87	43	-	38	27
Allyl chloride				U 0.47	U 0.47	-	U 0.47	U 0.47
Benzene	6.6	9.4	9.4	40	21	-	6.4	1.3
Benzyl chloride	<6.4	<6.8	<6.8	U 0.86	U 0.86	-	U 0.86	U 0.86
Bromodichloromethane				U 1	U 1	-	U 1	U 1
Bromofluorobenzene				U 0	U 0	-	U 0	U 0
Bromoforn				U 1.6	U 1.6	-	U 1.6	U 1.6
Bromomethane	<1.6	<1.7	<1.7	U 0.58	U 0.58	-	U 0.58	U 0.58
Carbon disulfide	3.7	4.2	4.2	20	41	-	4.2	0.93
Carbon tetrachloride	0.7	<1.3	<1.3	3.3	2.5	-	1.3	U 0.25
Chlorobenzene	<0.8	<0.9	<0.9	U 0.69	U 0.69	-	U 0.69	U 0.69
Chloroethane	<1.2	<1.1	<1.1	U 0.4	U 0.4	-	U 0.4	U 0.4
Chloroform	0.6	1.1	1.1	U 0.73	U 0.73	-	U 0.73	1.2
Chloromethane	3.7	3.7	3.7	U 0.31	U 0.31	-	U 0.31	U 0.31
cis-1,2-Dichloroethene	<1.8	<1.9	<1.9	U 0.59	69	-	U 0.59	U 0.59
cis-1,3-Dichloropropene	<2.2	<2.3	<2.3	U 0.68	U 0.68	-	U 0.68	U 0.68
Cyclohexane				270	78	-	12	3.3
Dibromochloromethane				U 1.3	U 1.3	-	U 1.3	U 1.3
Ethyl acetate	1.5	5.4	5.4	U 0.9	U 0.9	-	U 0.9	U 0.9
Ethylbenzene	3.5	5.7	5.7	8.2	4.0	-	2.1	1.5
Freon 11				6.0	6.7	-	3.4	0.90
Freon 113				5.7	U 1.1	-	U 1.1	1.0 J
Freon 114				U 1	U 1	-	U 1	U 1
Freon 12				U 0.74	4.3	-	2.8	2.1
Heptane				210	59	-	22	18
Hexachloro-1,3-butadiene	<6.4	<6.8	<6.8	U 1.6	U 1.6	-	U 1.6	U 1.6
Hexane	6.4	10.2	10.2	490	120	-	43	18
Isopropyl alcohol				U 0.37	U 0.37	-	U 0.37	2.6
m&p-Xylene	12.8	22.2	22.2	30 J	13 J	-	6.8 J	5.9 J
Methyl Butyl Ketone				U 1.2	U 1.2	-	U 1.2	U 1.2
Methyl Ethyl Ketone	11.3	12	12	U 0.88	U 0.88	-	U 0.88	U 0.88
Methyl Isobutyl Ketone				UJ 1.2	UJ 1.2	-	UJ 1.2	UJ 1.2
Methyl tert-butyl ether		6.2	11.5	U 0.54	U 0.54	-	U 0.54	U 0.54
Methylene chloride	60	6.1	10	U 0.52	U 0.52	-	U 0.52	U 0.52
o-Xylene		4.6	7.9	9.6	4.0	-	2.5	2.3
Propylene				U 0.26	U 0.26	-	U 0.26	U 0.26
Styrene	1.3	1.9	1.9	U 0.64	U 0.64	-	U 0.64	U 0.64
Tetrachloroethylene	100	6.5	15.9	U 1	U 1	-	U 1	U 1
Tetrahydrofuran				U 0.44	U 0.44	-	U 0.44	U 0.44
Toluene	33.7	43	43	73	41	-	20	19
trans-1,2-Dichloroethene				U 0.59	17	-	U 0.59	U 0.59
trans-1,3-Dichloropropene	<1.4	<1.3	<1.3	U 0.68	U 0.68	-	U 0.68	U 0.68
Trichloroethene	5	1.3	4.2	U 0.21	14	-	U 0.21	U 0.21
Vinyl acetate				U 0.53	U 0.53	-	U 0.53	U 0.53
Vinyl Bromide				U 0.66	U 0.66	-	U 0.66	U 0.66
Vinyl chloride		<1.8	<1.9	U 0.1	U 0.1	-	U 0.1	U 0.1

All values reported as ug/m³

* - Guideline values established in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2006).

** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Outdoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

*** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Indoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

U - Analyzed for but not detected above the laboratory reporting limit

J - Estimated value

R.L. - Laboratory Reporting Limit

(-) - The summa canister did not collect a sample from KLZ-SVV-3. The laboratory suspects the soil at the well location was too tight for the vacuum to obtain a sample.

Bold analyte indicates it is used in Garlock's manufacturing process

Bold and shaded cell indicates result exceeds the NYSDOH Guideline Value

Bold and thick outlined cell indicates result is above the 90th Percentile Background Outdoor Air Concentration

Bold, thick outlined, and shaded cell indicates result is above the 90th Percentile Background Indoor Air Concentration



Table 3 (Page 1 of 4): Summary of Sub-Slab Vapor, Indoor Air, and Outdoor Air Laboratory Analytical Results. Garlock Sealing Technologies - Kiozures BCP Site, Palmyra, NY.

ANALYTE (ug/m ³)	Air Guideline Values*	Background Indoor Air**	SAMPLE IDENTIFICATION			
			KLZ-SSV-1	KLZ-IA-1	DUPLICATE	
Sample Date			2/8/2015	2/8/2015	2/8/2015 (KLZ-SSV-1)	
			R.L.	R.L.	R.L.	R.P.D.
VOCs by EPA Method TO-15						
1,1,1-Trichloroethane		20.6	U 0.82	U 0.82	U 0.82	-
1,1,2,2-Tetrachloroethane			U 1.0	U 1.0	U 1.0	-
1,1,2-Trichloroethane		<1.5	U 0.82	U 0.82	U 0.82	-
1,1-Dichloroethane		<0.7	UJ 0.61	UJ 0.61	UJ 0.61	-
1,1-Dichloroethene		<1.4	U 0.59	U 0.59	U 0.59	-
1,2,4-Trichlorobenzene		<6.8	U 1.1	U 1.1	U 1.1	-
1,2,4-Trimethylbenzene		9.5	27	0.88	72	90.91%
1,2-Dibromoethane		<1.5	U 1.2	U 1.2	U 1.2	-
1,2-Dichlorobenzene		<1.2	U 0.90	U 0.90	U 0.90	-
1,2-Dichloroethane		<0.9	U 0.61	U 0.61	U 0.61	-
1,2-Dichloropropane		<1.6	U 0.69	U 0.69	U 0.69	-
1,3,5-Trimethylbenzene		3.7	11	0.59	24	74.29%
1,3-butadiene		<3.0	U 0.33	U 0.33	U 0.33	-
1,3-Dichlorobenzene		<2.4	U 0.90	U 0.90	U 0.90	-
1,4-Dichlorobenzene		5.5	U 0.90	U 0.90	U 0.90	-
1,4-Dioxane			U 1.1	U 1.1	U 1.1	-
2,2,4-trimethylpentane			1.5	U 0.70	1.5	0.00%
4-ethyltoluene		3.6	12	U 0.74	21	54.55%
Acetone		98.9	43	14	25	52.94%
Allyl chloride			U 0.47	U 0.47	U 0.47	-
Benzene		9.4	4.6	0.89	4.9	6.32%
Benzyl chloride		<6.8	U 0.86	U 0.86	U 0.86	-
Bromodichloromethane			U 1.0	U 1.0	U 1.0	-
Bromofluorobenzene			U 0	U 0	U 0	-
Bromoform			U 1.6	U 1.6	U 1.6	-
Bromomethane		<1.7	U 0.58	U 0.58	U 0.58	-
Carbon disulfide		4.2	57	12	45	23.53%
Carbon tetrachloride		<1.3	U 0.25	0.57	U 0.25	-
Chlorobenzene		<0.9	U 0.69	U 0.69	U 0.69	-
Chloroethane		<1.1	U 0.40	U 0.40	U 0.40	-
Chloroform		1.1	0.63	U 0.73	0.73	14.71%
Chloromethane		3.7	U 0.31	0.81	U 0.31	-
cis-1,2-Dichloroethene		<1.9	U 0.59	U 0.59	U 0.59	-
cis-1,3-Dichloropropene		<2.3	U 0.68	U 0.68	U 0.68	-
Cyclohexane			6.8	U 0.52	6.6	2.99%
Dibromochloromethane			U 1.3	U 1.3	U 1.3	-
Ethyl acetate		5.4	U 0.90	1.3	U 0.90	-
Ethylbenzene		5.7	13	3.0	31	81.82%
Freon 11			1.9	1.3	1.9	0.00%
Freon 113			U 1.1	U 1.1	U 1.1	-
Freon 114			U 1.0	U 1.0	U 1.0	-
Freon 12			2.8	2.6	2.7	3.64%
Heptane			16	U 0.61	29	57.78%
Hexachloro-1,3-butadiene		<6.8	U 1.6	U 1.6	U 1.6	-
Hexane		10.2	15	U 0.53	30	66.67%
Isopropyl alcohol			U 0.37	4.4	4.9	171.92%
m&p-Xylene		22.2	39	11	100	87.77%
Methyl Butyl Ketone			U 1.2	U 1.2	U 1.2	-
Methyl Ethyl Ketone		12	U 0.88	6.0	17	180.31%
Methyl Isobutyl Ketone			UJ 1.2	UJ 1.2	UJ 1.2	-
Methyl tert-butyl ether		11.5	U 0.54	U 0.54	U 0.54	-
Methylene chloride	60	10	U 0.52	0.56	1.0	63.16%
o-Xylene		7.9	16	3.2	40	85.71%
Propylene			U 0.26	U 0.26	U 0.26	-
Styrene		1.9	U 0.64	U 0.64	U 0.64	-
Tetrachloroethylene	100	15.9	U 1.0	U 1.0	U 1.0	-
Tetrahydrofuran			U 0.44	U 0.44	U 0.44	-
Toluene		43	24	4.4	56	80.00%
trans-1,2-Dichloroethene			U 0.59	U 0.59	U 0.59	-
trans-1,3-Dichloropropene		<1.3	U 0.68	U 0.68	U 0.68	-
Trichloroethene	5	4.2	0.70	U 0.21	0.70	0.00%
Vinyl acetate			U 0.53	U 0.53	U 0.53	-
Vinyl Bromide			U 0.66	U 0.66	U 0.66	-
Vinyl chloride		<1.9	U 0.10	U 0.10	U 0.10	-

All values reported as ug/m³

* - Guideline values established in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2006).

*** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Indoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

U - Analyzed for but not detected above the laboratory reporting limit

J - Estimated value

R.L. - Laboratory Reporting Limit

RPD - Relative Percent Difference between the duplicate and parent sample concentrations. When one sample is non-detect, the laboratory reporting limit is used as the concentration for the calculation.

$$RPD = \frac{2(\text{Sample Value} - \text{Duplicate Sample Value})}{(\text{Sample Value} + \text{Duplicate Sample Value})}$$

(-) - Not applicable since both the sample and the duplicate sample concentrations were non-detect for specific analyte.

Bold analyte indicates it is used in Garlock's manufacturing process

Bold and shaded cell indicates result exceeds the NYSDOH Guideline Value

Bold, thick outlined, and shaded cell indicates result is above the 90th Percentile Background Indoor Air Concentration



Table 3 (Page 2 of 4): Summary of Sub-Slab Vapor, Indoor Air, and Outdoor Air Laboratory Analytical Results. Garlock Sealing Technologies - Klozures BCP Site. Palmyra, NY.

ANALYTE (ug/m ³)	Air Guideline Values*	Background Indoor Air***	SAMPLE IDENTIFICATION			
			KLZ-SSV-2	KLZ-IA-2	KLZ-SSV-3	KLZ-IA-3
Sample Date			2/8/2015	2/8/2015	2/8/2015	2/8/2015
VOCs by EPA Method TO-15			R.L.	R.L.	R.L.	R.L.
1,1,1-Trichloroethane		20.6	U 0.82	U 0.82	U 0.82	U 0.82
1,1,2,2-Tetrachloroethane			U 1.0	U 1.0	U 1.0	U 1.0
1,1,2-Trichloroethane		<1.5	U 0.82	U 0.82	U 0.82	U 0.82
1,1-Dichloroethane		<0.7	UJ 0.61	UJ 0.61	UJ 0.61	UJ 0.61
1,1-Dichloroethene		<1.4	U 0.59	U 0.59	U 0.59	U 0.59
1,2,4-Trichlorobenzene		<6.8	U 1.1	U 1.1	U 1.1	U 1.1
1,2,4-Trimethylbenzene		9.5	6.9	0.59 J	6.9	0.69 J
1,2-Dibromoethane		<1.5	U 1.2	U 1.2	U 1.2	U 1.2
1,2-Dichlorobenzene		<1.2	U 0.90	U 0.90	U 0.90	U 0.90
1,2-Dichloroethane		<0.9	U 0.61	U 0.61	U 0.61	U 0.61
1,2-Dichloropropane		<1.6	U 0.69	U 0.69	U 0.69	U 0.69
1,3,5-Trimethylbenzene		3.7	2.5	U 0.74	2.4	U 0.74
1,3-butadiene		<3.0	U 0.33	U 0.33	U 0.33	U 0.33
1,3-Dichlorobenzene		<2.4	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dichlorobenzene		5.5	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dioxane			U 1.1	U 1.1	U 1.1	U 1.1
2,2,4-trimethylpentane			U 0.70	U 0.70	0.56 J	U 0.70
4-ethyltoluene		3.6	2.4	U 0.74	2.5	U 0.74
Acetone		98.9	43	14	43	15 J
Allyl chloride			U 0.47	U 0.47	U 0.47	U 0.47
Benzene		9.4	1.1	1.1	1.2	1.1
Benzyl chloride		<6.8	U 0.86	U 0.86	U 0.86	U 0.86
Bromodichloromethane			U 1.0	U 1.0	U 1.0	U 1.0
Bromofluorobenzene			U 0	U 0	U 0	U 0
Bromoforn			U 1.6	U 1.6	U 1.6	U 1.6
Bromomethane		<1.7	U 0.58	U 0.58	U 0.58	U 0.58
Carbon disulfide		4.2	4.9	12	5.4	21 J
Carbon tetrachloride		<1.3	U 0.25	0.63	U 0.25	0.63
Chlorobenzene		<0.9	U 0.69	U 0.69	U 0.69	U 0.69
Chloroethane		<1.1	U 0.40	U 0.40	U 0.40	U 0.40
Chloroform		1.1	0.54 J	U 0.73	0.59 J	U 0.73
Chloromethane		3.7	U 0.31	1.0	U 0.31	1.2
cis-1,2-Dichloroethene		<1.9	U 0.59	U 0.59	U 0.59	U 0.59
cis-1,3-Dichloropropene		<2.3	U 0.68	U 0.68	U 0.68	U 0.68
Cyclohexane			0.96	U 0.52	U 0.52	0.69
Dibromochloromethane			U 1.3	U 1.3	U 1.3	U 1.3
Ethyl acetate		5.4	U 0.90	1.0	U 0.90	0.94
Ethylbenzene		5.7	3.6	1.1	3.6	0.91
Freon 11			1.9	1.5	1.9	1.9
Freon 113			3.9			0.92 J
Freon 114			U 1.0	U 1.0	U 1.0	U 1.0
Freon 12			2.5	2.9	2.6	3.7 J
Heptane			U 0.61	U 0.61	U 0.61	U 0.61
Hexachloro-1,3-butadiene		<6.8	U 1.6	U 1.6	U 1.6	U 1.6
Hexane		10.2	U 0.53	U 0.53	U 0.53	2.2
Isopropyl alcohol			U 0.37	5.4	11	8.1 J
m&p-Xylene		22.2	13 J	4.0 J	13 J	3.0 J
Methyl Butyl Ketone			U 1.2	U 1.2	U 1.2	U 1.2
Methyl Ethyl Ketone		12	9.1	8.3	5.6 J	7.1 J
Methyl Isobutyl Ketone			UJ 1.2	UJ 1.2	UJ 1.2	UJ 1.2
Methyl tert-butyl ether		11.5	U 0.54	U 0.54	U 0.54	0.97
Methylene chloride	60	10	U 0.52	0.94	U 0.52	0.52
o-Xylene		7.9	4.6	1.3	4.5	1.2
Propylene			U 0.26	U 0.26	U 0.26	U 0.26
Styrene		1.9	5.7	U 0.64	6.0	U 0.64
Tetrachloroethylene	100	15.9	U 1.0	U 1.0	0.88 J	U 1.0
Tetrahydrofuran			U 0.44	U 0.44	U 0.44	U 0.44
Toluene		43	7.5	4.7	8.0	4.1 J
trans-1,2-Dichloroethene			U 0.59	U 0.59	U 0.59	U 0.59
trans-1,3-Dichloropropene		<1.3	U 0.68	U 0.68	U 0.68	U 0.68
Trichloroethene	5	4.2	0.97	U 0.21	1.5	U 0.21
Vinyl acetate			U 0.53	U 0.53	U 0.53	U 0.53
Vinyl Bromide			U 0.66	U 0.66	U 0.66	U 0.66
Vinyl chloride		<1.9	U 0.10	U 0.10	U 0.10	U 0.10

All values reported as ug/m³

* - Guideline values established in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2006).

*** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Indoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

U - Analyzed for but not detected above the laboratory reporting limit

J - Estimated value

R.L. - Laboratory Reporting Limit

Bold analyte indicates it is used in Garlock's manufacturing process

Bold and shaded cell indicates result exceeds the NYSDOH Guideline Value

Bold, thick outlined, and shaded cell indicates result is above the 90th Percentile Background Indoor Air Concentration



Table 3 (Page 3 of 4): Summary of Sub-Slab Vapor, Indoor Air, and Outdoor Air Laboratory Analytical Results. Garlock Sealing Technologies - Klozures BCP Site. Palmyra, NY.

ANALYTE (ug/m ³)	Air Guideline Values*	Background Indoor Air***	SAMPLE IDENTIFICATION			
			KLZ-SSV-4	KLZ-1A-4	KLZ-SSV-5	KLZ-1A-5
Sample Date			2/8/2015	2/8/2015	2/8/2015	2/8/2015
VOCs by EPA Method TO-15						
1,1,1-Trichloroethane		20.6	U 0.82	U 0.82	0.60 J	U 0.82
1,1,2,2-Tetrachloroethane			U 1.0	U 1.0	U 1.0	U 1.0
1,1,2-Trichloroethane		<1.5	U 0.82	U 0.82	U 0.82	U 0.82
1,1-Dichloroethane		<0.7	UJ 0.61	UJ 0.61	UJ 0.61	UJ 0.61
1,1-Dichloroethene		<1.4	U 0.59	U 0.59	U 0.59	U 0.59
1,2,4-Trichlorobenzene		<6.8	U 1.1	U 1.1	U 1.1	U 1.1
1,2,4-Trimethylbenzene		9.5	6.0	0.93	7.2	U 0.74
1,2-Dibromoethane		<1.5	U 1.2	U 1.2	U 1.2	U 1.2
1,2-Dichlorobenzene		<1.2	U 0.90	U 0.90	U 0.90	U 0.90
1,2-Dichloroethane		<0.9	U 0.61	U 0.61	U 0.61	U 0.61
1,2-Dichloropropane		<1.6	U 0.69	U 0.69	U 0.69	U 0.69
1,3,5-Trimethylbenzene		3.7	2.5	U 0.74	2.4	U 0.74
1,3-butadiene		<3.0	U 0.33	U 0.33	U 0.33	U 0.33
1,3-Dichlorobenzene		<2.4	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dichlorobenzene		5.5	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dioxane			U 1.1	U 1.1	U 1.1	U 1.1
2,2,4-trimethylpentane			0.51 J	U 0.70	U 0.70	U 0.70
4-ethyltoluene		3.6	2.0	U 0.74	2.4	U 0.74
Acetone		98.9	33	15	38	12
Allyl chloride			U 0.47	U 0.47	U 0.47	U 0.47
Benzene		9.4	2.7	0.93	1.5	0.93
Benzyl chloride		<6.8	U 0.86	U 0.86	U 0.86	U 0.86
Bromodichloromethane			U 1.0	U 1.0	U 1.0	U 1.0
Bromofluorobenzene			U 0	U 0	U 0	U 0
Bromoform			U 1.6	U 1.6	U 1.6	U 1.6
Bromomethane		<1.7	U 0.58	U 0.58	U 0.58	U 0.58
Carbon disulfide		4.2	3.2	15	5.7	18
Carbon tetrachloride		<1.3	U 0.25	0.50	U 0.25	0.57
Chlorobenzene		<0.9	U 0.69	U 0.69	U 0.69	U 0.69
Chloroethane		<1.1	U 0.40	U 0.40	U 0.40	U 0.40
Chloroform		1.1	0.98	U 0.73	U 0.73	U 0.73
Chloromethane		3.7	U 0.31	1.1	U 0.31	0.99
cis-1,2-Dichloroethene		<1.9	U 0.59	U 0.59	U 0.59	U 0.59
cis-1,3-Dichloropropene		<2.3	U 0.68	U 0.68	U 0.68	U 0.68
Cyclohexane			2.8	U 0.52	1.4	U 0.52
Dibromochloromethane			U 1.3	U 1.3	U 1.3	U 1.3
Ethyl acetate		5.4	U 0.90	0.83 J	U 0.90	0.79 J
Ethylbenzene		5.7	3.7	0.69	3.2	0.69
Freon 11			2.2	1.5	1.9	1.5
Freon 113			U 1.1	U 1.1	U 1.1	U 1.1
Freon 114			U 1.0	U 1.0	U 1.0	U 1.0
Freon 12			3.0	2.9	2.7	2.8
Heptane			9.4	U 0.61	6.0	U 0.61
Hexachloro-1,3-butadiene		<6.8	U 1.6	U 1.6	U 1.6	U 1.6
Hexane		10.2	7.4	U 0.53	3.1	U 0.53
Isopropyl alcohol			11	5.3	7.1	3.7
m&p-Xylene		22.2	14 J	2.3 J	12 J	1.7 J
Methyl Butyl Ketone			U 1.2	U 1.2	U 1.2	U 1.2
Methyl Ethyl Ketone		12	6.8 J	5.9	5.9 J	6.8
Methyl Isobutyl Ketone			UJ 1.2	UJ 1.2	UJ 1.2	UJ 1.2
Methyl tert-butyl ether		11.5	U 0.54	U 0.54	U 0.54	U 0.54
Methylene chloride	60	10	U 0.52	0.52	U 0.52	0.49 J
o-Xylene		7.9	4.6	0.87	4.2	0.74
Propylene			U 0.26	U 0.26	U 0.26	U 0.26
Styrene		1.9	4.7	U 0.64	4.3	U 0.64
Tetrachloroethylene	100	15.9	U 1.0	U 1.0	1.0	U 1.0
Tetrahydrofuran			U 0.44	U 0.44	U 0.44	U 0.44
Toluene		43	7.9	3.4	7.9	3.2
trans-1,2-Dichloroethene			U 0.59	U 0.59	U 0.59	U 0.59
trans-1,3-Dichloropropene		<1.3	U 0.68	U 0.68	U 0.68	U 0.68
Trichloroethene	5	4.2	1.1	U 0.21	0.81	U 0.21
Vinyl acetate			U 0.53	U 0.53	U 0.53	U 0.53
Vinyl Bromide			U 0.66	U 0.66	U 0.66	U 0.66
Vinyl chloride		<1.9	U 0.10	U 0.10	U 0.10	U 0.10

All values reported as ug/m³

* - Guideline values established in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2006).

*** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Indoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

U - Analyzed for but not detected above the laboratory reporting limit

J - Estimated value

R.L. - Laboratory Reporting Limit

Bold analyte indicates it is used in Garlock's manufacturing process

Bold and shaded cell indicates result exceeds the NYSDOH Guideline Value

Bold, thick outlined, and shaded cell indicates result is above the 90th Percentile Background Indoor Air Concentration



Table 3 (Page 4 of 4): Summary of Sub-Slab Vapor, Indoor Air, and Outdoor Air Laboratory Analytical Results, Garlock Sealing Technologies - Kiozures BCP Site, Palmyra, NY.

ANALYTE (ug/m ³)	Air Guideline Values*	Background Outdoor Air**	Background Indoor Air***	SAMPLE IDENTIFICATION				
				KLZ-SSV-6 2/8/2015	KLZ-1A-6 2/8/2015	KLZ-SSV-7 2/8/2015	KLZ-1A-7 2/8/2015	KLZ-OA-1 2/8/2015
Sample Date								
VOCs by EPA Method TO-15								
1,1,1-Trichloroethane		2.6	20.6	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82
1,1,2,2-Tetrachloroethane				U 1.0	U 1.0	U 1.0	U 1.0	U 1.0
1,1,2-Trichloroethane		<1.6	<1.5	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82
1,1-Dichloroethane		<0.6	<0.7	UJ 0.61	UJ 0.61	UJ 0.61	UJ 0.61	UJ 0.61
1,1-Dichloroethene		<1.4	<1.4	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59
1,2,4-Trichlorobenzene		<6.4	<6.8	U 1.1	U 1.1	U 1.1	U 1.1	U 1.1
1,2,4-Trimethylbenzene		5.8	9.5	6.8	0.79	7.2	0.79	U 0.74
1,2-Dibromoethane		<1.6	<1.5	U 1.2	U 1.2	U 1.2	U 1.2	U 1.2
1,2-Dichlorobenzene		<1.2	<1.2	U 0.90	U 0.90	U 0.90	U 0.90	U 0.90
1,2-Dichloroethane		<0.8	<0.9	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61
1,2-Dichloropropane		<1.6	<1.6	U 0.69	U 0.69	U 0.69	U 0.69	U 0.69
1,3,5-Trimethylbenzene		2.7	3.7	2.5	U 0.74	2.9	0.59	U 0.74
1,3-butadiene		<3.4	<3.0	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33
1,3-Dichlorobenzene		<2.2	<2.4	U 0.90	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dichlorobenzene		1.2	5.5	U 0.90	U 0.90	U 0.90	U 0.90	U 0.90
1,4-Dioxane				U 1.1	U 1.1	U 1.1	U 1.1	U 1.1
2,2,4-trimethylpentane				0.70	U 0.70	0.70	U 0.70	U 0.70
4-ethyltoluene		3	3.6	2.7	U 0.74	2.6	U 0.74	U 0.74
Acetone		43.7	98.9	45	12	34	12	12
Allyl chloride				U 0.47	U 0.47	U 0.47	U 0.47	U 0.47
Benzene		6.6	9.4	1.8	0.83	2.9	0.80	0.89
Benzyl chloride		<6.4	<6.8	U 0.86	U 0.86	U 0.86	U 0.86	U 0.86
Bromodichloromethane				U 1.0	U 1.0	U 1.0	U 1.0	U 1.0
Bromofluorobenzene				U 0	U 0	U 0	U 0	U 0
Bromoform				U 1.6	U 1.6	U 1.6	U 1.6	U 1.6
Bromomethane		<1.6	<1.7	U 0.58	U 0.58	U 0.58	U 0.58	U 0.58
Carbon disulfide		3.7	4.2	5.3	U 0.47	8.4	0.37	U 0.47
Carbon tetrachloride		0.7	<1.3	0.44	0.57	0.44	U 0.25	0.63
Chlorobenzene		<0.8	<0.9	U 0.69	U 0.69	U 0.69	U 0.69	U 0.69
Chloroethane		<1.2	<1.1	U 0.40	U 0.40	U 0.40	U 0.40	U 0.40
Chloroform		0.6	1.1	0.73	U 0.73	1.0	U 0.73	U 0.73
Chloromethane		3.7	3.7	U 0.31	1.1	U 0.31	0.97	0.99
cis-1,2-Dichloroethene		<1.8	<1.9	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59
cis-1,3-Dichloropropene		<2.2	<2.3	U 0.68	U 0.68	U 0.68	U 0.68	U 0.68
Cyclohexane				2.2	U 0.52	3.0	U 0.52	U 0.52
Dibromochloromethane				U 1.3	U 1.3	U 1.3	U 1.3	U 1.3
Ethyl acetate		1.5	5.4	U 0.90	U 0.90	U 0.90	U 0.90	U 0.90
Ethylbenzene		3.5	5.7	4.6	U 0.65	4.4	U 0.65	U 0.65
Freon 11				1.7	1.5	1.9	1.4	1.4
Freon 113				U 1.1	U 1.1	U 1.1	U 1.1	U 1.1
Freon 114				U 1.0	U 1.0	U 1.0	0.91	U 1.0
Freon 12				U 0.74	3.3	2.5	3.0	2.9
Heptane				10	0.61	9.0	U 0.61	U 0.61
Hexachloro-1,3-butadiene		<6.4	<6.8	U 1.6	U 1.6	U 1.6	U 1.6	U 1.6
Hexane		6.4	10.2	U 0.53	0.81	U 0.53	U 0.53	U 0.53
Isopropyl alcohol				9.1	4.4	U 0.37	5.0	U 0.37
m&p-Xylene		12.8	22.2	16	0.78	J	1.0	0.61
Methyl Butyl Ketone				U 1.2	U 1.2	U 1.2	U 1.2	U 1.2
Methyl Ethyl Ketone		11.3	12	9.1	1.8	8.0	1.8	0.74
Methyl Isobutyl Ketone				UJ 1.2	UJ 1.2	UJ 1.2	UJ 1.2	UJ 1.2
Methyl tert-butyl ether		6.2	11.5	U 0.54	U 0.54	U 0.54	U 0.54	U 0.54
Methylene chloride	60	6.1	10	2.5	0.45	U 0.52	U 0.52	U 0.52
o-Xylene		4.6	7.9	5.2	U 0.65	5.7	0.52	U 0.65
Propylene				U 0.26	U 0.26	U 0.26	U 0.26	U 0.26
Styrene		1.3	1.9	5.9	U 0.64	6.3	U 0.64	U 0.64
Tetrachloroethylene	100	6.5	15.9	0.68	U 1.0	0.75	U 1.0	U 1.0
Tetrahydrofuran				U 0.44	U 0.44	U 0.44	U 0.44	U 0.44
Toluene		33.7	43	9.4	3.1	11	5.4	1.1
trans-1,2-Dichloroethene				U 0.59	U 0.59	U 0.59	U 0.59	U 0.59
trans-1,3-Dichloropropene		<1.4	<1.3	U 0.68	U 0.68	U 0.68	U 0.68	U 0.68
Trichloroethene	5	1.3	4.2	1.6	U 0.21	1.2	U 0.21	U 0.21
Vinyl acetate				U 0.53	U 0.53	U 0.53	U 0.53	U 0.53
Vinyl Bromide				U 0.66	U 0.66	U 0.66	U 0.66	U 0.66
Vinyl chloride		<1.8	<1.9	U 0.10	U 0.10	U 0.10	U 0.10	U 0.10

All values reported as ug/m³

* - Guideline values established in Table 3.1 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (May 2006).

** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Outdoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

*** - 90th Percentile of the Building Assessment and Survey Evaluation (BASE) Database, SUMMA Canister Method - Indoor Air (Table C2 in Appendix C of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006).

U - Analyzed for but not detected above the laboratory reporting limit

J - Estimated value

R.L. - Laboratory Reporting Limit

Bold analyte indicates it is used in Garlock's manufacturing process

Bold and shaded cell indicates result exceeds the NYSDOH Guideline Value

Bold and thick outlined cell indicates result is above the 90th Percentile Background Outdoor Air Concentration

Bold, thick outlined, and shaded cell indicates result is above the 90th Percentile Background Indoor Air Concentration



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

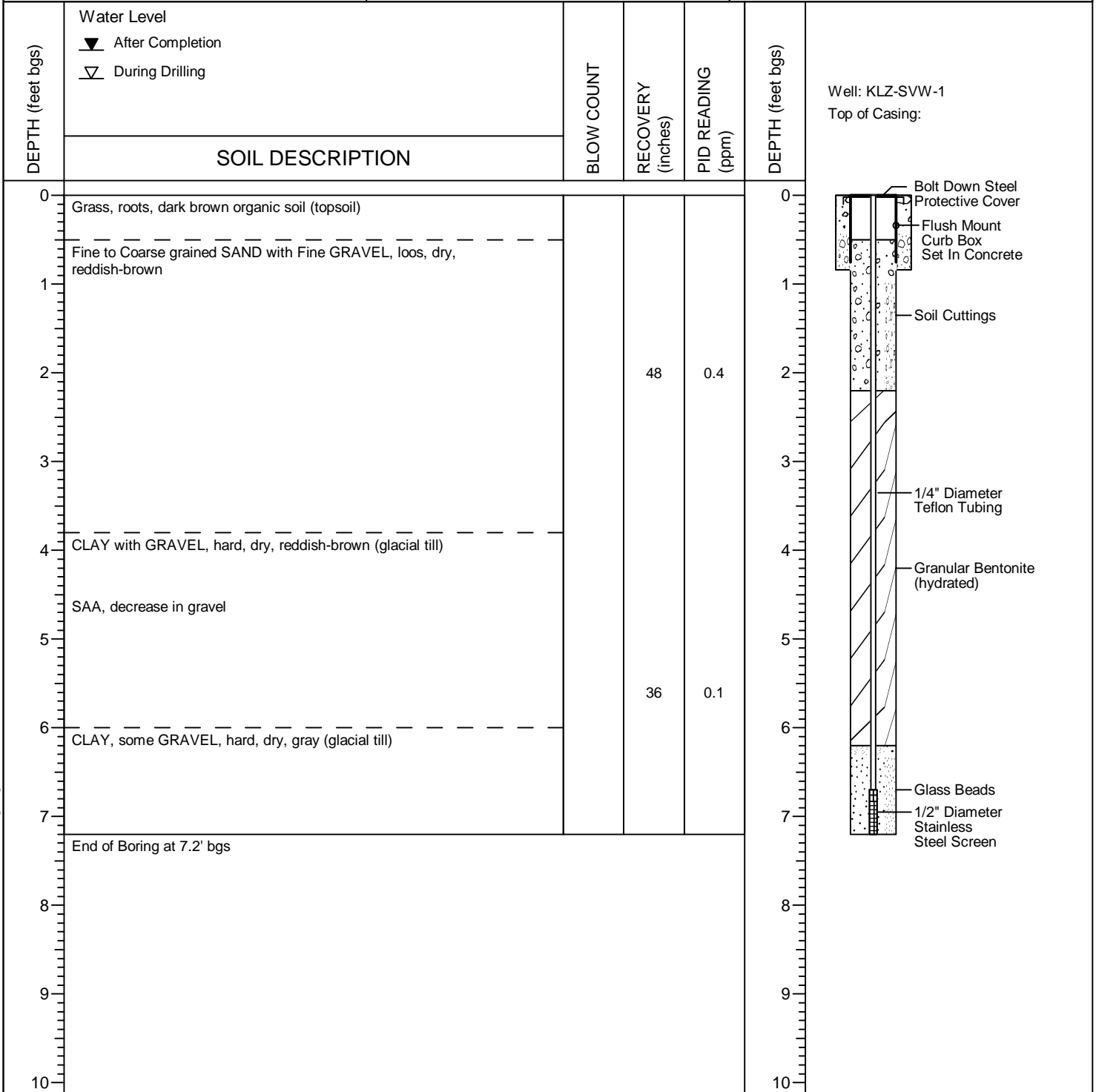
Depth of Boring : 7.2-feet bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Direct Push
Sample Equipment : 4' Macrocore
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

LOG OF BORING KLZ-SVW-1

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A



NOTES:
BGS - Below Ground Surface
N/A - Not Applicable
ppm - Parts Per Million
SAA - Same As Above

LOG OF BORING KLZ-SVW-1

(Page 1 of 1)



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

Depth of Boring : 7.1-feet bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Direct Push
Sample Equipment : 4' Macrocore
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

LOG OF BORING KLZ-SVW-2

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A

DEPTH (feet bgs)	Water Level ▼ After Completion ▽ During Drilling	SOIL DESCRIPTION	BLOW COUNT	RECOVERY (inches)	PID READING (ppm)	DEPTH (feet bgs)	
0		Gravel				0	
1		Fine to Coarse grained SAND with Fine GRAVEL, loose, dry, reddish-brown, trace of brick fragments and cinders (fill)		42	0.2	1	
2						2	
3						3	
4						4	
5						5	
6		CLAY and SILT, some GRAVEL, medium-stiff, dry, gray (glacial till)		36	0.1	6	
7		End of Boring at 7.1' bgs				7	
8						8	
9						9	
10						10	

NOTES:

BGS - Below Ground Surface
N/A - Not Applicable
ppm - Parts Per Million
SAA - Same As Above

LOG OF BORING KLZ-SVW-2

(Page 1 of 1)

03-11-2015 G:\8615140\Klozures SVI Evaluation\SVI Evaluation\Boring Logs\SVW-2.bor



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

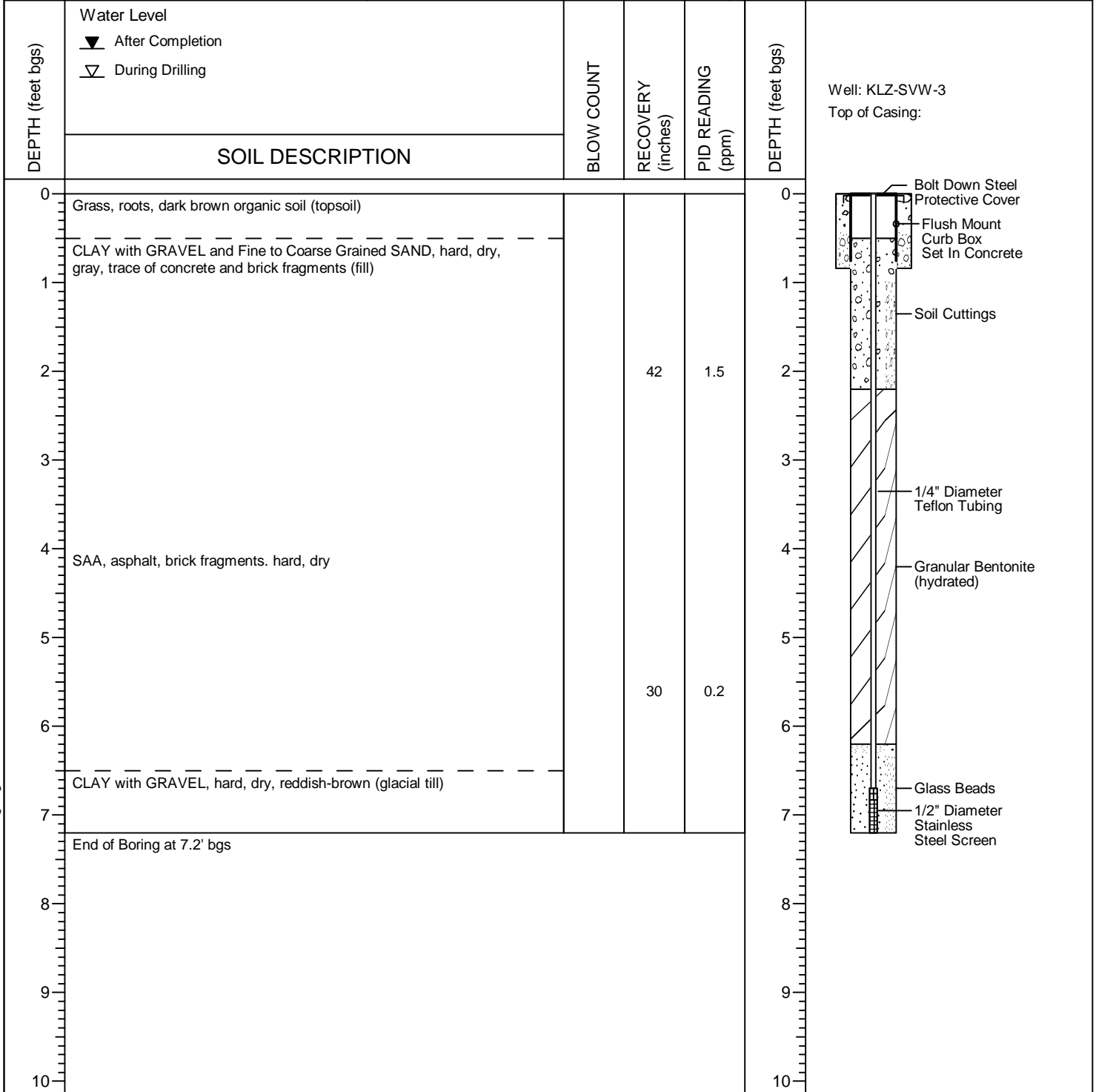
Depth of Boring : 7.2-feet bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Direct Push
Sample Equipment : 4' Macrocore
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

LOG OF BORING KLZ-SVW-3

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A



NOTES:

BGS - Below Ground Surface
N/A - Not Applicable
ppm - Parts Per Million
SAA - Same As Above

LOG OF BORING KLZ-SVW-3

(Page 1 of 1)



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

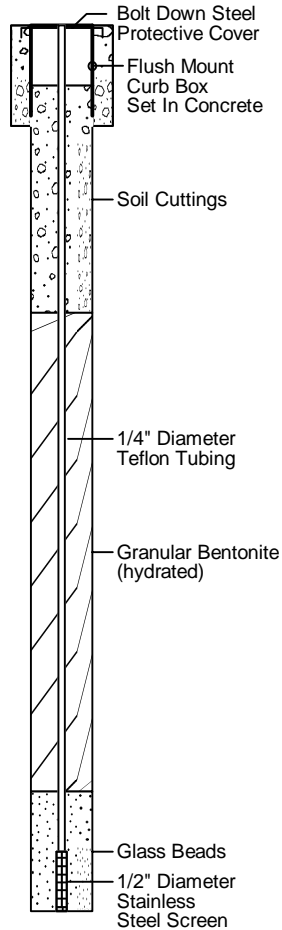
Depth of Boring : 7.4-feet bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Direct Push
Sample Equipment : 4' Macrocore
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

LOG OF BORING KLZ-SVW-4

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A

DEPTH (feet bgs)	Water Level ▼ After Completion ▽ During Drilling	SOIL DESCRIPTION	BLOW COUNT	RECOVERY (inches)	PID READING (ppm)	DEPTH (feet bgs)	
0		Grass, roots, dark brown organic soil (topsoil)				0	
1		CLAY with GRAVEL and Fine to Coarse Grained SAND, medium-stiff, dry, reddish-brown and greenish-gray, trace of concrete, brick fragments, and cinders (fill)		48	0.0	1	
2						2	
3						3	
4						4	
5		CLAY with GRAVEL, hard, dry, greenish-gray (glacial till)		36	0.0	5	
6						6	
7						7	
8		End of Boring at 7.4' bgs				8	
9						9	
10						10	

NOTES:

BGS - Below Ground Surface
N/A - Not Applicable
ppm - Parts Per Million
SAA - Same As Above

LOG OF BORING KLZ-SVW-4

(Page 1 of 1)



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

Depth of Boring : 4-feet bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Direct Push
Sample Equipment : 4' Macrocore
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

LOG OF BORING KLZ-SVW-5

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A

DEPTH (feet bgs)	Water Level ▼ After Completion ▽ During Drilling	SOIL DESCRIPTION	BLOW COUNT	RECOVERY (inches)	PID READING (ppm)	DEPTH (feet bgs)	
0		Grass, roots, dark brown organic soil (topsoil)				0	
1		SILT with Fine to Medium Grained SAND and GRAVEL, medium-stiff, dry, trace cinders (fill)				1	
2				42	1.5	2	
3						3	
4		SAA, wet				4	
5		CLAY with Fine to Coarse Grained SAND and GRAVEL, hard, dry reddish-brown (glacial till)		30	0.2	5	
6						6	
7		End of Boring at 7' bgs Second boring advanced to 4' bgs approximately 1' west and KLZ-SVW-5 was installed there due to wet soils encountered in first boring.				7	
8						8	
9						9	
10						10	

NOTES:

BGS - Below Ground Surface
N/A - Not Applicable
ppm - Parts Per Million
SAA - Same As Above

LOG OF BORING KLZ-SVW-5

(Page 1 of 1)



Garlock Sealing Technologies
Klozures BCP Site (#C859001)
1666 Division Street
Palmyra, New York

Project No. 86-15140

Depth of Boring : 8 to 10-inches bgs
Drilling Contractor : Parratt-Wolff
Driller : Shawn B.
Drilling Method : Hammer Drill
Sample Equipment : N/A
Field Geologist : Ian McNamara
Initial Depth to GW : N/A
Stable Depth to GW : N/A
Surveyed By : N/A

TYPICAL SUB-SLAB VAPOR PORT

(Page 1 of 1)

Date Started : February 5, 2015
Date Completed : February 5, 2015

Northing/Latitude : N/A
Easting/Longitude : N/A
Surface Elevation : N/A

DEPTH (feet bgs)

Water Level

▼ After Completion

▽ During Drilling

SOIL DESCRIPTION

DEPTH (feet bgs)

0

Concrete Slab, 6- to 8-inches thick

Sub-base

1

End of Boring at 8- to 10-inches below floor surface

A 1" diameter hole was drilled approximately 1.5" into the concrete slab and a 1/2" diameter hole was drilled the remainder of the way through the slab and approximately 2" into the sub-base material. 1/4" diameter teflon tubing was inserted into the boring and extended approximately 4" above the floor surface. Glass beads were placed in the annulus of the boring to the bottom of the concrete slab. The remainder of the annulus was backfilled with modelling clay and the tubing was capped.

2

3

4

5

0

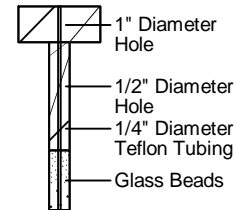
1

2

3

4

5



NOTES:

BGS - Below Ground Surface

N/A - Not Applicable

ppm - Parts Per Million

SAA - Same As Above

TYPICAL SUB-SLAB VAPOR PORT

(Page 1 of 1)

APPENDIX G

SITE MANAGEMENT FORMS



**GARLOCK SEALING TECHNOLOGIES
KLOZURES BCP SITE (SITE #C859001) INSPECTION FORM**

Inspections should be done annually at a minimum, weekly in specific areas undergoing construction, and following any construction-related work performed in particular site areas.

Inspection Data

Annual ☐

Construction ☐

Post-Construction ☐

Location:

Inspection Date:

Inspected By:

		Y or N	Problem Identified/Action Taken
1.	Condition of pavement: Are there areas of pavement or crushed stone where sub-soil is exposed?		
2.	Condition of building floors (lowest building levels): Are any cracks or gaps present?		
3.	Stockpiled Materials: Are temporary soil stockpiles or construction materials protected from erosion?		
4.	Erosion Control: Are erosion/storm water control devices in place?		
5.	Backfill: Has backfill been applied to excavation areas in accordance with the site Excavation Plan?		
6.	Dust Control: Have dust control measures been implemented as needed during the conduct of construction work?		

If current inspection is construction or post-construction, describe the nature of the construction project:



If the current inspection is due to an incident or accident, describe the nature of the incident/accident and the corrective measures being taken.

APPENDIX H

GREEN REMEDIATION FORM

Summary of Green Remediation Metrics for Site Management

Site Name: _____ Site Code: _____
 Address: _____ City: _____
 State: _____ Zip Code: _____ County: _____

Initial Report Period (Start Date of period covered by the Initial Report submittal)

Start Date: _____

Current Reporting Period

Reporting Period From: _____ To: _____

Contact Information

Preparer's Name: _____ Phone No.: _____
 Preparer's Affiliation: _____

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current Reporting Period	Total to Date
Fuel Type 1 (e.g. natural gas (cf))		
Fuel Type 2 (e.g. fuel oil, propane (gals))		
Electricity (kWh)		
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar, wind)		
Other energy sources (e.g. geothermal, solar thermal (Btu))		

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	Total to Date (tons)
Total waste generated on-site		
OM&M generated waste		
Of that total amount, provide quantity:		
Transported off-site to landfills		
Transported off-site to other disposal facilities		
Transported off-site for recycling/reuse		
Reused on-site		

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies and lab-supplied bottles, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	Total to Date (miles)
Standby Engineer/Contractor		
Laboratory Courier/Delivery Service (bottle and sample delivery)		
Waste Removal/Hauling		

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gallons)	Total to Date (gallons)
Total quantity of water used on-site (not including treated water)		
Of that total amount, provide quantity:		
Public potable water supply usage		
Surface water usage		
On-site groundwater usage		
Collected or diverted storm water usage		

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	Total to Date (acres)
Land disturbed		
Land restored		

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

Description of green remediation programs reported above (Attach additional sheets if needed)
Energy Usage:
Waste Generation:
Transportation/Shipping:
Water usage:
Land Use and Ecosystems:
Recommendations/Other:

CONTRACTOR CERTIFICATION	
I, _____ (Name) do hereby certify that I am _____ (Title) of _____ (Contractor Name), which is responsible for the work documented on this form. According to my knowledge and belief, all of the information provided in this form is accurate and the site management program complies with the DER-10, DER-31, and CP-49 policies.	
_____	_____
Date	Contractor

APPENDIX I

REMEDIAL SYSTEM OPTIMIZATION TABLE OF CONTENTS

REMEDIAL SYSTEM OPTIMIZATION FOR GARLOCK SEALING TECHNOLOGIES, LLC – KLOZURES BCP SITE

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 SITE OVERVIEW

1.2 PROJECT OBJECTIVES AND SCOPE OF WORK

1.3 REPORT OVERVIEW

2.0 REMEDIAL ACTION DESCRIPTION

2.1 SITE LOCATION AND HISTORY

2.2 REGULATORY HISTORY AND REQUIREMENTS

2.3 CLEAN-UP GOALS AND SITE CLOSURE CRITERIA

2.4 PREVIOUS REMEDIAL ACTIONS

2.5 DESCRIPTION OF EXISTING REMEDY

2.5.1 System Goals and Objectives

2.5.2 System Description

2.5.3 Operation and Maintenance Program

3.0 FINDINGS AND OBSERVATIONS

3.1 SUBSURFACE PERFORMANCE

3.2 TREATMENT SYSTEM PERFORMANCE

3.3 REGULATORY COMPLIANCE

3.4 MAJOR COST COMPONENTS OR PROCESSES

3.5 SAFETY RECORD

4.0 RECOMMENDATIONS

4.1 RECOMMENDATIONS TO ACHIEVE OR ACCELERATE SITE CLOSURE

4.1.1 Source Reduction/Treatment

4.1.2 Sampling

4.1.3 Conceptual Site Model (Risk Assessment)

4.2 RECOMMENDATIONS TO IMPROVE PERFORMANCE

4.2.1 Maintenance Improvements

4.2.2 Monitoring Improvements

4.2.3 Process Modifications

4.3 RECOMMENDATIONS TO REDUCE COSTS

4.3.1 Supply Management

4.3.2 Process Improvements or Changes

4.3.3 Optimize Monitoring Program

4.3.4 Maintenance and Repairs

4.4 RECOMMENDATIONS FOR IMPLEMENTATION

APPENDIX J

REQUEST TO IMPORT/REUSE FILL MATERIAL FORM



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Signature

Date

Print Name

Firm

ATTACHMENTS

ATTACHMENT 1

HISTORICAL GARLOCK FACILITY PFAS ASSESSMENT DATA

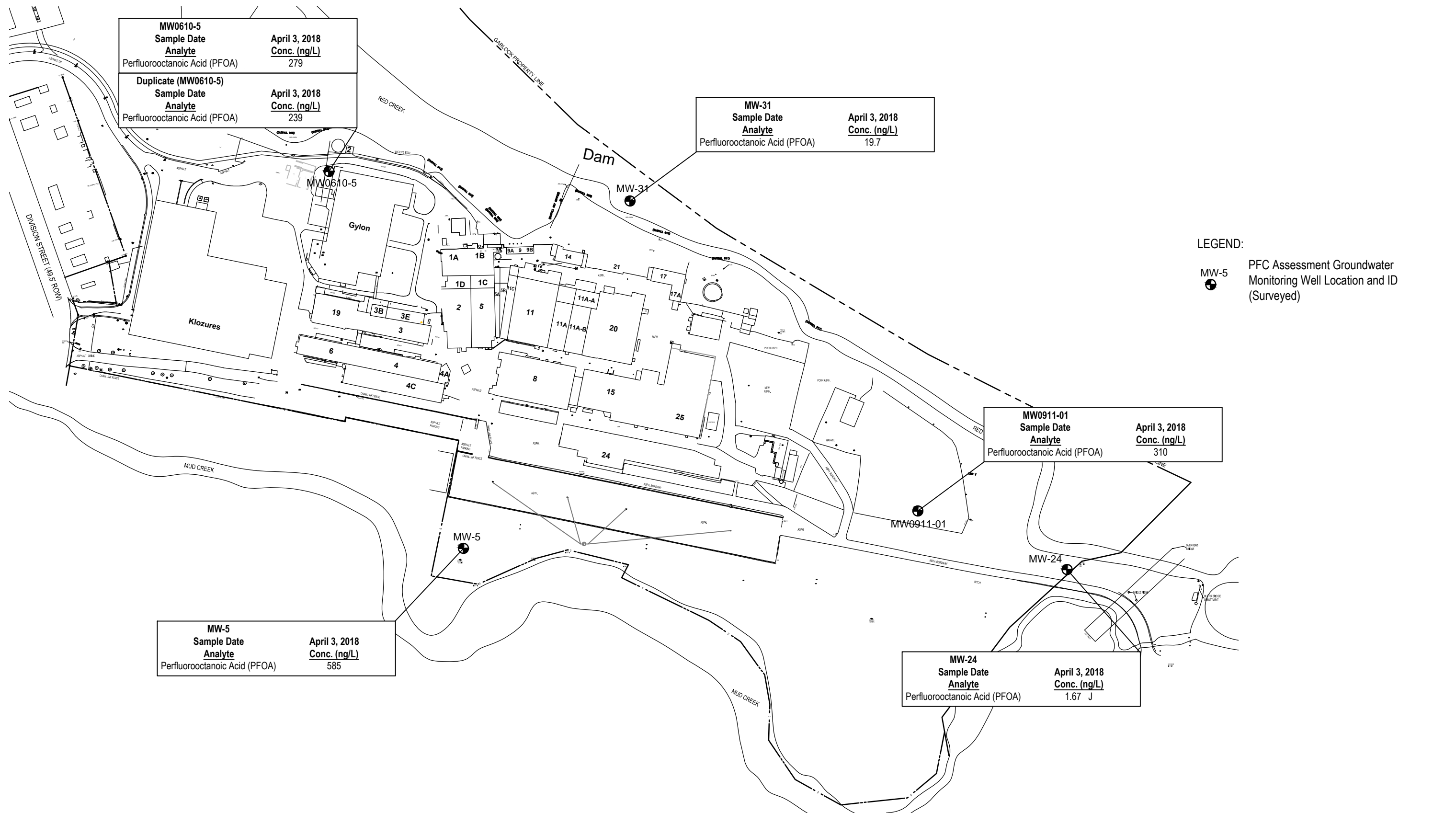




Table 1
Groundwater Elevations

Garlock Sealing Technologies
1666 Division Street
Palmyra, New York

Groundwater Elevations and Volumes							
Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Volume (gal)
MW-5	4/3/2018	Top of PVC	436.67	8.22	19.40	428.45	1.81
MW-24	4/3/2018	Top of PVC	426.58	3.11	14.80	423.47	1.89
MW-31	4/3/2018	Top of PVC	426.62	1.71	17.90	424.91	2.62
MW0911-01	9/24/2014	Top of PVC	434.41	10.27	16.62	424.14	1.03
	12/4/2014			10.15	16.62	424.26	1.05
	3/23/2015			8.47	16.62	425.94	1.32
	6/29/2015			7.65	16.62	426.76	1.45
	9/24/2015			10.08	16.62	424.33	1.06
	12/21/2015			9.67	16.62	424.74	1.13
	3/24/2016			8.58	16.65	425.83	1.31
	6/22/2016			10.31	16.67	424.10	1.03
	9/28/2016			11.90	16.46	422.51	0.74
	12/22/2016			8.70	16.51	425.71	1.27
	3/21/2017			8.55	16.60	425.86	1.30
	6/28/2017			9.51	16.69	424.90	1.16
	9/26/2017			10.00	16.70	424.41	1.09
	12/19/2017			9.10	16.70	425.31	1.23
	4/3/2018			8.11	16.70	426.30	1.39
MW0610-05	9/22/2014	Top of PVC	431.53	4.08	15.35	427.45	1.83
	12/5/2014			4.79	15.35	426.74	1.71
	3/23/2015			3.30	15.35	428.23	1.95
	6/29/2015			3.62	15.35	427.91	1.90
	9/24/2015			4.67	15.35	426.86	1.73
	12/21/2015			4.42	15.52	427.11	1.80
	3/24/2016			3.98	15.48	427.55	1.86
	6/22/2016			4.30	15.50	427.23	1.81
	9/28/2016			4.80	15.30	426.73	1.70
	12/22/2016			4.00	15.34	427.53	1.84
	3/21/2017			3.90	15.49	427.63	1.88
	6/28/2017			4.45	15.60	427.08	1.81
	9/26/2017			4.73	15.60	426.80	1.76
	12/19/2017			4.48	15.66	427.05	1.81
	4/3/2018			3.62	15.64	427.91	1.95



Table 2 (Page 1 of 1): Summary of Groundwater Sample Laboratory Analytical Results. Garlock Sealing Technologies. 1666 Division Street, Palmyra, NY. April 2018.

Analyte (ng/L)	US EPA Health Advisory Level	MW-5		MW-24		MW-31		MW0610-5		MW0911-01		Duplicate (MW0610-5)			Field Blank	
		4/3/2018		4/3/2018		4/3/2018		4/3/2018		4/3/2018		4/3/2018			4/3/2018	
PFCs by Modified EPA Method 537			MDL		MDL		MDL		MDL		MDL		MDL	RPD		MDL
Perfluorobutanoic Acid (PFBA)		5.89	0.117	0.943	J 0.117	3.53	0.113	30.9	0.117	24.2	0.121	24.9	0.117	21.51%	U	0.117
Perfluoropentanoic Acid (PFPeA)			U 0.076		U 0.076		U 0.074	66.2	0.076	8.44	0.079	54.6	0.076	19.21%	U	0.076
Perfluorobutanesulfonic Acid (PFBS)		1.21	J 0.098	0.557	J 0.098	0.641	J 0.095		U 0.098	1.44	J 0.102		U 0.098	N/A	U	0.098
Perfluorohexanoic Acid (PFHxA)		5.18	0.113	0.407	J 0.113	0.210	J 0.109	71.4	0.113	13.8	0.117	59.1	0.113	18.85%	U	0.113
Perfluoroheptanoic Acid (PFHpA)		5.78	0.083	0.282	J 0.083	0.731	J 0.080	32.4	0.083	18.6	0.086	27.1	0.083	17.82%	U	0.083
Perfluorohexanesulfonic Acid (PFHxS)		0.678	J 0.096	0.382	J 0.096	0.152	J 0.093	0.382	J 0.096		U 0.100		U 0.096	119.67%	U	0.096
Perfluorooctanoic Acid (PFOA)	70	585	0.045	1.67	J 0.045	19.7	0.043	279	0.045	310	0.047	239	0.045	15.44%	0.843 J	0.045
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)		0.286	J 0.173	0.182	J 0.173		U 0.167	77.1	0.173		U 0.180	64.5	0.173	17.80%	U	0.173
Perfluoroheptanesulfonic Acid (PFHpS)		0.464	J 0.138		U 0.138		U 0.134		U 0.138		U 0.144		U 0.138	N/A	U	0.138
Perfluorononanoic Acid (PFNA)		1.68	J 0.090	0.193	J 0.090		U 0.087	1.15	J 0.090	2.78	0.093	0.871	J 0.090	27.61%	U	0.090
Perfluorooctanesulfonic Acid (PFOS)	70	3.93	0.100	0.525	J 0.100	0.183	J 0.096	0.536	J 0.100	1.70	J 0.103	0.378	J 0.100	34.57%	0.207 J	0.100
Perfluorodecanoic Acid (PFDA)		3.93	0.170		U 0.170		U 0.164	0.439	J 0.170	2.30	0.176	0.178	J 0.170	84.60%	U	0.170
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)		3.32	0.260		U 0.260		U 0.251	1.01	J 0.260		U 0.269	0.718	J 0.260	33.80%	U	0.260
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)		4.71	0.224		U 0.224		U 0.216		U 0.224		U 0.232		U 0.224	N/A	U	0.224
Perfluoroundecanoic Acid (PFUnA)		7.06	0.171		U 0.171		U 0.165		U 0.171	1.17	J 0.177		U 0.171	N/A	U	0.171
Perfluorodecanesulfonic Acid (PFDS)		6.52	0.198		U 0.198		U 0.192		U 0.198		U 0.206		U 0.198	N/A	U	0.198
Perfluorooctanesulfonamide (FOSA)		3.02	0.202		U 0.202		U 0.196		U 0.202		U 0.210		U 0.202	N/A	U	0.202
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)		4.72	0.333		U 0.333		U 0.321		U 0.333	0.400	J 0.345		U 0.333	N/A	U	0.333
Perfluorododecanoic Acid (PFDoA)		7.45	0.082		U 0.082		U 0.079		U 0.082	0.392	J 0.085	0.111	J 0.082	30.05%	0.086 J	0.082
Perfluorotridecanoic Acid (PFTrDA)		5.61	0.081		U 0.081		U 0.078		U 0.081	0.189	J 0.084		U 0.081	N/A	0.082 J	0.081
Perfluorotetradecanoic Acid (PFTA)		5.83	0.064	0.136	J 0.064	0.124	J 0.062	0.136	J 0.064	0.226	J 0.067	0.146	J 0.064	7.09%	0.125 J	0.064
TOTAL PFAS		662.268		5.277		25.271		560.653		385.637		471.602			1.343	

US EPA Health Advisory Level - Lifetime drinking water health advisory levels (EPA, May 2016). EPA's health advisories are non-enforceable and non-regulatory and provide technical information.

All values reported in nanograms per liter (ng/L) - parts per trillion (ppt)

MDL - Method Detection Limit

U - Analyzed for but not detected above method detection limit identified

J - Indicates an estimated value