

Periodic Review Report

Site No. C241108 Long Island City, New York

June 4, 2018

Prepared for:

CSC 4540 Property Co, LLC 757 Third Avenue, 17th Floor, New York, New York 10017

Prepared by:

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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 recently amended per the NYSDEC's letter dated January 12, 2018 (Appendix F):

Site Identification:	Site Identification No. C241108
	Paragon Paint and Varnish Corp.
	5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard,
	Long Island City, Queens, New York

Institutional Controls:	 The property may be used for re and/or industrial use only. 	estricted residential, commercial			
	2. Environmental Easement				
	3. Performance of soil vapor intrusion evaluation in event of redevelopment.				
	4. All ECs must be inspected at a fr in the SMP.	4. All ECs must be inspected at a frequency and in a manner defined in the SMP.			
Engineering Controls:	1. Cover system				
	2. Light Non-Aqueous Phase Liqui	d (LNAPL) Recovery System			
	3. In-situ Chemical Oxidation (ISC	O) Injections			
Inspections:		Frequency			
1. Cover inspec	tion	Annually			
2. LNAPL recov	ery system inspection	As Needed			
Monitoring:		Frequency			
1. Gauging of Ll	NAPL recovery wells	Quarterly			
2. Gauging of M	lonitoring wells - Groundwater	Quarterly			
3. Sampling of N	Monitoring Wells – Groundwater	Annually (Can be increased if groundwater results support need to adjust frequency)			
Maintenance:		Frequency			
1. LNAPL pump	maintenance	As Needed			
2. LNAPL recove	ery drum change-out	As Needed			
Reporting:		Frequency			
1. Quarterly Pro	gress Report (Ongoing)	Quarterly			
2. Groundwater	Monitoring Results	Annually			
3. Periodic Revi	ew Report	Annually			

1.0 INTRODUCTION

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology D.P.C. (Roux)¹ on behalf of CSC 4540 Property Co LLC (current Site Owner) and serves as a required element of the remedial program for the Former Paragon Paint and Varnish site located in Long Island City, New York (hereinafter referred to as the Site). A Site map is attached as Figure 1. The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C241108, which is administered by the New York State Department of Environmental Conservation (NYSDEC).

On June 29, 2007, 549 46th Avenue LLC applied to the BCP as a Volunteer. Subsequent key dates related to the Volunteer's application to the BCP are below:

- September 4, 2008: The NYSDEC signed the Brownfield Cleanup Agreement ("BCA) with 549-46th Avenue LLC as Volunteer.
- July 6, 2010: Anable Beach Inc. applied to amend the BCA to be added as a Volunteer.
- August 17, 2010: The NYSDEC approved the BCA Amendment #1.
- July 18, 2011: Vernon 4540 Realty LLC applied to amend the BCA a second time to be added as a third Volunteer (BCA Amendment #2).
- July 29, 2011: The NYSDEC approved BCA Amendment #2.
- December 15, 2016: The NYSDEC issued a Certificate of Completion (COC) for the Site to 549-46th Avenue LLC, Anable Beach Inc. and Vernon 4540 Realty LLC.

As part of being in the BCP, a Site investigation was performed that revealed high levels of Benzene, Ethylbenzene, Isopropylbenzene (Cumene), and Xylene contamination in soil and groundwater at the Site. In addition, Roux also confirmed that there were two distinct LNAPL plumes located at the Site – one plume in the center of the courtyard and the other at the southwestern edge of the Site located within the driveway. A Track 4 cleanup was proposed and implemented in accordance with the Remedial Action Work Plan submitted to the NYSDEC on October 7, 2015.

The Site Management Plan (SMP), dated August 2015, was approved by NYSDEC on December 7, 2016 (refer to Appendix E). On January 12, 2018, NYSDEC approved of the following modifications:

- 1. All Site monitoring wells will be gauged for the presence of light non-aqueous phase liquid (LNAPL) on a quarterly basis in lieu of gauging select wells on a monthly basis. The first quarterly gauging event occurred in March 2018.
- 2. Monthly progress reports are no longer required. A quarterly report will be submitted that details the performance of gauging or sampling events performed at the Site.
- 3. The groundwater sampling frequency may be reduced to annual, with the next sampling event in June 2018.
- 4. A formal groundwater monitoring report will be replaced with a tabular summary of groundwater data and a short evaluation of conditions when data is generated. This may be applied to the recent groundwater sampling event performed at the Site in December 2017. The results should be discussed in greater detail in the subsequent Periodic Review Report (PRR).

¹ Prior to March 1, 2018, Roux Environmental Engineering and Geology, D.P.C. performed work as Remedial Engineering P.C. and Roux Associates, Inc. Remedial Engineering P.C. is a New York State professional service corporation organized primarily for the purpose of providing engineering services for clients of Roux Associates, Inc.

The required Site-wide inspection and monthly O&M inspections were completed during this SMP monitoring phase. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls are performing as designed, are effective, and are compliant with specifications described in the SMP. No additional changes to the monitoring plan are recommended by Roux at this time.

Site Management activities, reporting, and Institutional Control (IC)/ Engineering Control (EC) certification are scheduled on a certification period basis. This certification is based on the submission of a PRR (included herein), submitted to the NYSDEC every year beginning fifteen months after the COC was issued. These PRRs will identify and assess all of the IC/ECs required by the remedy for the Site, any environmental monitoring data and/or information generated during the reporting period, and a complete Site evaluation which discusses the overall performance and effectiveness of the previous remedy.

2.0 SITE OVERVIEW

2.1 Site Description and History

The Site is located in Long Island City, Queens County, New York and is identified as Block 26 and Lot 4 on the Long Island City Tax Map. The Site is an approximately 0.76-acre area and is bounded by a one-story commercial property and Anable Basin to the north, 46th Avenue to the south, Vernon Boulevard and multistory residential/commercial buildings to the east, and a two-story warehouse to the west. The owner of the Site is CSC Vernon 4540 Property Co, LLC.

The Site consists of a four-story former paint factory, a three-story former garage and office, a three-story former warehouse, a concrete access road off 46th Avenue and a concrete rear courtyard that fronts approximately 50 feet of the Anable Basin. The Site is zoned industrial and is currently vacant. The properties adjoining the Site and in the neighborhood surrounding the Site primarily include commercial and residential properties.

2.2 Summary of Remedial Action

Following the BCP Remedial Investigation, and the Department's approval of the Remedial Action Work Plan, Volunteer began remediation at the Site in 2015. Since then, Volunteer has fully implemented and completed the approved remedial program. All remedial work was done with oversight, understanding, and direction from the NYSDEC.

Based on the results of the Remedial Investigation, the Decision Document identified the following Remedial Action Objectives (RAOs) for this Site.

Remedial Action Objectives

Groundwater RAOs

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.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from soil.

RAOs for Environmental Protection

• Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor RAOs

RAOs for Public Health Protection

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

The cleanup consisted of the following:

- Excavation and off-Site disposal of grossly contaminated soil in the courtyard LNAPL source area, including:
 - Grossly contaminated soil as defined in 6NYCRR Part 375-1.2(u)
 - Soil containing LNAPL
 - Soil containing total SVOCs exceeding 500 parts per million (ppm)
 - Soils which exceeded the PoG SCOs as defined by 6 NYCRR Part 375-6.8 for those contaminants found in Site groundwater above standards
 - Soils that created a nuisance condition, as defined in NYSDEC Commissioner Policy CP-51 Section G
- Closure of USTs by removal or, as a contingency, closure in place
- Excavation and disposal of subsurface piping
- Air monitoring of potential airborne VOCs and particulates during all ground intrusive and soil handling activities
- Implementation of erosion and sediment controls
- Installation of five autonomous LNAPL recovery pumps at property boundary areas where LNAPL plume extends off-Site
- Installation of a Site cover system
- In situ chemical oxidation (ISCO) injections for treatment of VOCs in soil and groundwater underneath the brick warehouse building on-Site.

2.3 Remaining Contamination

The Remedial Alternative (RA) was designed to reduce the concentration of Site contaminants in groundwater through excavation of grossly contaminated soil in the LNAPL source area within the courtyard followed by product recovery at the edges of the LNAPL plumes that extended off-site from the courtyard area and the driveway.

Due to limits of the Support of Excavation (SOE), structural engineering concerns associated with the onsite buildings and other Site constraints, all soil contamination was not removed as part of the performance of the remedial action. As a result, soil contamination remains at several locations across the Site that exceeds the NYSDEC PoG SCOs for one or more of the four VOCs of concern (benzene, ethylbenzene isopropylbenzene and total xylenes).

2.3.1 Soil

The RA addressed grossly contaminated soil in the LNAPL source areas within the courtyard and driveway through excavation, low-level VOCs underneath the Warehouse through ISCO, and limiting contact with potentially-contaminated soil by installing a composite cover over the rest of the Site. Though the grossly contaminated soil was removed from the LNAPL source areas in the courtyard and driveway, soil contamination remains to the east of the excavation towards the four-story paint factory building and within

the driveway excavation. This material, which potentially extends beneath Site buildings, could not be removed due to the SOE limitations.

The south extent of the excavation in the courtyard was extended to as near the warehouse and garage as a 1:1 slope would allow. Excavation and post-excavation sampling determined the presence of grossly contaminated material towards the three-story building and beneath the concrete slab where former 20,000 USTs had been staged on. The bottom sample collected from the middle of the driveway excavation at 17.5 ft showed evidence of gross contamination.

A total of 11 USTs were encountered during the RA, with five (5) in the southeast corner of the courtyard excavation and the remaining six (6) located inside the garage excavation footprint. All 11 tanks and their chambers encountered during the RA were emptied, cleaned and were either removed (the five (5) courtyard excavation USTs) or abandoned in place (the six (6) garage excavation USTs). Compliance UST samples were collected from the soil surrounding the courtyard and garage and the presence of residual contamination was present. This material could not be removed due to SOE limitations.

The residual soil contamination, as originally presented in the Final Engineering Report (FER) dated November 22, 2016, is also presented in this PRR as Figures 3 and 4. Further remedies to address this residual contamination will be evaluated in the Site redevelopment plan.

2.3.2 Groundwater

The RA addressed groundwater through removal and/or treatment of soil with VOCs above PoG SCOs. A component of the RAWP was an ISCO injection program to treat VOCs in groundwater and soil where excavation could not be completed during the RA, namely the soils under the basement of the Warehouse. As documented in the FER, the initial ISCO injection program marginally improved groundwater quality as all Site's contaminants of Concern (benzene, ethylbenzene, isopropylbenzene, m,p-xylene, and o-xylene) remain above their respective NYSDEC ambient water quality guidance and standard values (AWQSGV) at various monitoring well locations across the Site.

All post-remediation groundwater analytical results are summarized in Appendix C with COC-specific data depicted on Figure 1.

Based upon the continued presence of residual VOCs in groundwater following the initial injection treatment event in the warehouse area and residual VOCs in soil after excavation of impacted soil in the courtyard during the Remedial Action, additional ISCO treatment was performed during this reporting period. Further details concerning the performance of that injection event are discussed in Section 3.3.2.

2.3.3 Soil Vapor

The RA addressed soil vapor through removal and/or treatment of soil containing VOCs above the PoG SCOs. During redevelopment, the need for soil vapor mitigation in new structures will be evaluated. New buildings with occupancy and slab-on-grade design may require a vapor barrier and a sub-slab depressurization system.

2.4 Engineering and Institutional Controls

Since residual contamination remains beneath the Site, ICs/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved SMP, to provide proper management of residual contamination in the future and ensure protection of public health and the environment.

2.4.1 Engineering Controls

The Site has ECs consisting of:

- Site Cover System (refer to Figure 1);
- ISCO Injections; and
- LNAPL Recovery System

The purpose of each EC is described below:

- The Site Cover System prevents exposure to remaining contamination in soil/ fill at the Site.
- The ISCO Injections, if effective, destroy the residual VOCs in groundwater and soil that were present after completion of the excavation remedy.
- The LNAPL Recovery System removes any residual LNAPL that may be present at the water table.

The LNAPL Recovery and Site Cover System ECs are fully in place and effective at meeting their objectives.

2.4.2 Institutional Controls

A Site-specific Environmental Easement has been recorded with the Queens County Clerk that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- The property may be used for: restricted residential, commercial or industrial use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene 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;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- 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 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;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the Site are prohibited.

3.0 SMP REQUIREMENTS AND COMPLIANCE MONITORING

Since remaining contaminated soil and groundwater exists beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4. On an annual basis, required certifications must be made for these Site-specific ICs and ECs to ensure that the required IC/ ECs are in place, are performing properly, and remain effective; and to confirm that they are continuing to be protective of human health and the environment. The respective IC/EC Certification Form for the controls that are currently in place for the Site is provided in Appendix A.

3.1.1 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:

- 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- 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.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, along with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

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

- 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 BCA, and all approved work plans and reports, including this SMP.
- 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.

3.2 Inspections

All inspections were conducted at the frequency specified in the Executive Summary. Specific details of requirements and completed inspections are provided in the following sections. Inspections of remedial components are also conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections will determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

3.3 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site cover system, and all affected Site media identified below. Components of the Monitoring Plan are:

- Sampling and analysis of all appropriate media (e.g., groundwater).
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil.
- Assessing achievement of the remedial performance criteria.
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.
- Preparing the necessary reports for the various monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency is subject to change in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Matrix	Analysis
Site Cover System and Site-Wide Inspection	Annually. First inspection no more than 15 months after issuance of the COC.	Soil	Visual inspection of all cover system components
Groundwater in Monitoring Wells Quarterly gauging and annual sampling*		Groundwater	VOCs (USEPA Method 8260) for NYSDEC Target Compound List compounds
Free Product in Monitoring Wells	Free Product in Monitoring Quarterly gauging Wells		Check for presence of LNAPL and confirm thickness, if applicable. Manual recovery of LNAPL where present and practical
LNAPL Recovery System Inspection	LNAPL Recovery System Inspection		Visual Inspection of all system components

* Annual groundwater sampling frequency was proposed to the NYSDEC in a revised SMP draft submitted on February 15, 2018. At the time this report was written, approval of the SMP was not yet received.

A record of the findings of each monitoring/inspection event and maintenance activity performed as described above, where applicable, will be documented on the Site Inspection Checklists and the LNAPL Recovery System Monitoring Logs provided in Appendices B and C, respectively of the SMP. If at any time during the reporting period the Volunteer identifies a failure of one or more of the ECs or non-compliance with one or more of the ICs, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the IC/ECs.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a non-mechanical engineered Site composite cover system that consists of:

- Existing concrete building slabs for the Paint Factory, 1-Story Brick Building, and 3-Story Warehouse;
- Existing concrete pavement;
- Installed asphalt cap; or
- Installed minimum 2 feet of recycled concrete aggregate (RCA).

The location and details of the Site cover system are shown on Figure 2. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring consists of visual inspection, which evaluates the structural integrity of the slab, pavement, and asphalt; and exposure of the demarcation barrier and direction of drainage for the RCA cap.

Roux performed Site cover system and Site-wide inspections on September 8, 2016, October 13, 2016, November 15, 2016, December 1, 2016, January 19, 2017, February 14, 2017, March 30, 2017, April 24,

2017, May 24, 2017, June 22, 2017, July 27, 2017, August 29, 2017, September 26, 2017, and March 20, 2018. The completed Site Inspection Checklists are provided in Appendix B. These inspections determined that all Site cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment. Photographs taken during the most recent Site-wide inspection are provided in Appendix B.

3.3.2 Groundwater Monitoring and Sampling

Groundwater monitoring was performed monthly until modifications were made in January 2018 when the frequency changed to quarterly. Samples were collected quarterly from the monitoring wells within the SMP monitoring network for Target Compound List (TCL) of VOCS using United States Environmental Protections Agency (USEPA) SW846 Method 8260. Purge water and decontamination waste water generated during the groundwater sampling was containerized in a labeled 55-gallon drum stored onsite. Groundwater analysis results dating back to September 8, 2016 are provided in Appendix C. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the SMP.

As identified in the SMP, residual groundwater (as well as soil) contamination was going to be addressed by the completion of additional ISCO injections. A single round of additional ISCO injections at various locations across the Site was conducted in April 2017. Following completion of the injections, performance monitoring was conducted bi-weekly as field parameters (e.g. pH, oxidation-reduction potential, dissolved oxygen) and samples for TCL VOC EPA Method 8260 analysis were collected.

The most recent round of SMP groundwater monitoring indicated detections above NYSDEC AWQSGV for seven (7) compounds, excluding the exceedances in acetone that were most likely caused by laboratory preservative methods:

- 1,3,5-Trimethylbenzene concentrations ranged from 14 μ g/L to 65 μ g/L with the highest concentration detected in MW-47;
- Benzene concentrations ranged from 1.2 μg/L to 8.4 μg/L with the highest concentration detected in MW-40;
- Ethylbenzene concentrations ranged from 6.0 μg/L to 7.6 μg/L with the highest concentration detected in MW-47;
- Isopropylbenzene concentrations ranged from 5.2 µg/L to 63 µg/L (a laboratory diluted sample) with the highest concentration detected in MW-19;
- m,p-Xylene concentrations ranged from 12 μg/L to 19 μg/L with the highest concentration detected in MW-47;
- n-Propylbenzene concentrations ranged from 6.8 µg/L to 120 µg/L (a laboratory diluted sample) with the highest concentration detected in MW-19;
- o-Xylene (1,2-Dimethylbenzene) concentrations ranged from 6.4 μg/L to 12 μg/L with the highest concentration detected in MW-47;
- sec-Butylbenzene concentrations ranged from 8.6 μg/L to 41 μg/L (a laboratory diluted sample) with the highest concentration detected in MW-19; and
- tert-Butylbenzene concentrations ranged from 5.6 μg/L (a laboratory diluted sample) to 14 μg/L (a laboratory diluted sample) with the highest concentration detected in MW-19.

As previously stated in the "Response to November 17, 2017 NYSDEC Comment Letter" submitted on January 9, 2018 (Appendix F), the chemical PersulfOx (under Regenesis' recommendation) for this application resulted in some reduction of concentrations of the contaminants of concern. It was concluded that any further ISCO treatment will not dramatically improve the treatment goals beneath the onsite buildings. Roux does not believe ISCO or other applicable technologies, (i.e., bioventing, bioremediation, or air sparging) would effectively address groundwater and gross contamination in soil at the Site. As such, alternative treatment options (i.e., stabilization) would be further evaluated as Site redevelopment plans are finalized.

3.3.3 Soil Vapor Intrusion Monitoring

New buildings with occupancy and slab-on-grade design may require a vapor barrier and sub-slab depressurization system. Soil vapor intrusion sampling will be performed during redevelopment planning to assess the potential for intrusion into the new buildings. At this time no plans for redevelopment have been established.

3.4 Operation and Maintenance Plan Compliance Report

The O&M Plan provided in the SMP:

- Includes the procedures necessary to allow individuals unfamiliar with the Site to operate and maintain the LNAPL recovery system;
- Includes troubleshooting as referenced in the equipment manual(s); and
- Will be updated periodically to reflect changes in Site conditions or the manner in which the SSDS is operated and maintained;

The LNAPL recovery system consists of a Geotech AC Sipper connected to five recovery wells (RW-1 through RW-5). The system operates when product is present within the recovery well. To date, the Sipper has recovered approximately 3.3 gallons of LNAPL. Due to the lack of presence of detectable LNAPL, the recovery system has not been running since March 30, 2017. Complete details of the NYSDEC-approved LNAPL recovery system including as-built drawings and startup procedures are presented in the SMP.

3.4.1 LNAPL Recovery System Operation Monitoring

All mechanical aspects of the product recovery system are visibly inspected to ensure proper function. Inspection activities include making sure that power supply is functioning, verifying no leaks are present in any of the recovery tubing, hoses or connections. The 55-gallon product storage drum was also be checked during each visit to determine if disposal arrangements needed to be made.

Free product levels within the wells located in the area were monitored and recorded to determine if the system needed to be restarted. Wells were gauged approximately monthly until modifications were made to the SMP effective January 12, 2018. These modifications include changing the gauging frequency from monthly to quarterly and shutting off the LNAPL recovery system. The system will remain in-place in the event that future monitoring events identify recoverable LNAPL. The system will be decommissioned upon Site redevelopment.

Moving forward, any LNAPL that is observed in monitoring wells at the Site during routine gauging events that are not within the capture zone of these existing recovery wells will continue to be manually recovered, to the extent practical, on a quarterly basis.

The required monthly LNAPL Recovery System Monitoring Logs that were completed during the reporting period are provided in chronological order in Appendix D. O&M activities described herein determined that the O&M Plan was carried out as designed during the reporting period of the PRR and it is protective of human health and the environment.

4.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

The following section presents conclusions from inspections and monitoring activities and recommendations.

• The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended at this time.

Periodic Review Report Site No. C241108 Long Island City, NY

FIGURES

- 1. VOCs and LNAPL Detected in Groundwater December 2016 to December 2017
- 2. Composite Cover System
- 3. Remaining Soil Sample Exceedances within Courtyard
- 4. Remaining Soil Sample Exceedances within Garage

Benzene Ethylbenzene	0.68 1 2.5 U 2.5 U	DUP 1 U 2.5 U	0.55 2.5 U	0.5 U 0.5 U 2.5 U 2.5 U	-	CO Be Ett	Cs nzene nylbenzene	0.5 U 2.5 U	0.5 U 2.5 U	0.5 U 2.5 U
Isopropylbenzene (Cumene) m,p-Xylene O-Xylene (1,2-Dimethylbenze Xylenes	2.5 U 2.5 2.5 U 2.5 2.5 U 2.5 ne) 2.5 U 2.5 2.5 U 2.5	U 2.5 U U 2.5 U U 2.5 U U 2.5 U U 2.5 U	2.5 U 2.5 U 2.5 U 2.5 U 2.5 U	2.5 U 2.5 U 2.5 U 2.5 U		Isc m, O- Xy	propylbenzene (Cumene) p-Xylene Xylene (1,2-Dimethylbenzene) lenes	2.5 U 2.5 U 2.5 U 2.5 U 2.5 U	2.5 U 2.5 U 2.5 U 2.5 U 2.5 U	2.5 U 2.5 U 2.5 U 2.5 U 2.5 U
1W-47 1 OCs	2/01/2016 12/01/2016 03 DUP	3/30/2017 06/22/20	09/26/201	7 12/21/2017						
Benzene Ethylbenzene Sopropylbenzene (Cumene)	0.98 1.1 11 11 9.2 9.9 24 25	0.66 0.42 15 9.4 16 13 26 24	U 0.31 J 5.2 9.1	0.47 J 7.6 11						
O-Xylene (1,2-Dimethylbenzene) Xylenes	24 25 14 15 38 40	36 24 20 14 56 38	8.6 22	13 12 31						
MW-44	12/01/2016 03	3/30/2017 06/22/20	017 09/26/2017	7 12/21/2017					Ъ.Т.	
COCs Benzene Ethylbenzene	1 9.9	0.63 0.19 9.7 3.2	J 0.37 J 6	0.36 J 4.4				BASI	.N	
m,p-Xylene O-Xylene (1,2-Dimethylk Xylenes	24 penzene) 17 41 1	13 3.0 30 9.5 22 8.8 52 18	15 13 28	13 10 23				0.25'	/W-10	
						~		•		
							1 STORY MASONRY RIIII	DING	×.	COURTYARD
MW-7 COCs	12/01/2016 03	3/30/2017 06/22/2	09/26/2017	7 12/21/2017					WOODEN TRAC	
Benzene Ethylbenzene Isopropylbenzene (Cum	NS NS ene) NS	NS 2.5 L NS 12 U NS 19	NS NS NS	NS NS NS					47	→ → ^M
O-Xylene (1,2-Dimethyll Xylenes	penzene) NS NS	NS 12 U NS 12 U NS 12 U	NS NS NS	NS NS NS			Ņ	[[_ •	
							SUBGRADE CONCRETE WALL			(11
							GC AREA 3			(
MW-2R COCs	12/01/2016 03	3/30/2017 06/22/20	09/26/2017	7 12/21/2017				RW-3	OVERHANC	<u> </u>
Benzene Ethylbenzene Isopropylbenzene (Cum	NS NS ene) NS	NS 1.2 L NS 5.4 J NS 17	0.5 U 2.5 U 11	NS NS NS					IP-2	D (
m,p-Xylene O-Xylene (1,2-Dimethyll Xylenes	NS penzene) NS NS	NS 6.7 NS 5.2 J NS 12 J	1.1 J 0.73 J 1.8 J	NS NS NS			TALL 1 STORY MASONRY BUILDING			
								WW-2/2F	IP-7	0
MW-19 COCs	12/01/2016 03	3/30/2017 06/22/20	09/26/2017	7 12/21/2017				CONCRETE		3 STORY
Benzene Ethylbenzene Isopropylbenzene (Cum m.p-Xylene	ene) NS NS NS	NS 1.2 L NS 3.4 J NS 23 NS 6.2 L	NS NS NS NS	2.5 U 5.3 J 63 12 U				мw-33/ в-10	IP-12	IP-13
O-Xylene (1,2-Dimethyll Xylenes	penzene) NS NS	NS 6.2 L NS 6.2 L	NS NS	12 U 12 U				RW-2	-STEPS	
									WW-38	8/
MW-33 COCs Benzene	12/01/2016 03	3/30/2017 06/22/20	09/26/201	7 12/21/2017 1 2 U		54" INTE #14 (SE	RCEPTOR PER REF. E NOTE # 3 & #11) WW-17	8' HIGH W/ RAZC	CHAIN LINK GATE	75.00 (0.
Ethylbenzene Isopropylbenzene (Cum m,p-Xylene	0.76 J ene) 1.3 J 1.1 J	2.3 J 2.5 L 4.2 J 0.87 L 5 U 2.5 L	1.3 J J 4.2 2.5 U	1.9 J 6 J 6.2 U			MH WATER-	<i>CONC. CURB D.C.</i>		schr _
O-Xylene (1,2-Dimethyli Xylenes	2.6 J	5 U 2.5 U 5 U 2.5 U	2.5 U	6.2 U					G ONE F	WAY
							MH SEWER			
MW-38 COCs	12/01/2016 03	3/30/2017 06/22/2	09/26/2017	7 12/21/2017						
Ethylbenzene Isopropylbenzene (Cum m,p-Xylene	ene) 2.5 U 2.5 U 2.5 U	0.3 U 0.43 C 2.5 U 2.5 L 36 24 2.5 U 2.5 L	2.5 U 2.5 U 2.5 U 2.5 U	2.5 U 10 2.5 U						
O-Xylene (1,2-Dimethyll Xylenes	benzene) 2.5 U 2.5 U	2.5 U 2.5 L 2.5 U 2.5 L	2.5 U 2.5 U	2.5 U 2.5 U						
	MW-34 COCs	12/01/20	016 03/30/2017	7 06/22/2017 09/2	6/2017 12/21/2017				[MW-3 COCs
	Ethylbenzene Isopropylbenzene (Cume m,p-Xylene	ene) 2.5 L	2.5 U 18 2.5 U	2.5 U 2.5 U 2.5 U	INS NS NS NS NS NS NS				-	Ethylt Isopro m,p-X
	O-Xylene (1,2-Dimethylb Xylenes	penzene) 2.5 L 2.5 L	2.5 U 2.5 U	2.5 U 2.5 U	NS NS NS NS					O-Xyl Xylen

0.10						
50Z/20					UNAUTHORIZED ALTERATION OR	PROJ.
11/22					ADDITION TO THIS DOCUMENT IS A VIOLATION OF STATE LAW.	DESIGN
r \uuu					THESE DOCUMENTS (OR COPIES	DRAWI
					OF ANY THEREOF) PREPARED BY OR BEARING THE SEAL OF	DRAWI
					REUSED FOR ANY EXTENSIONS	OFFICE
<u>ה</u> ארע					OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE	PROJE
1: \UAL	NO.	DATE	REVISION DESCRIPTION	INT.	ENGINEER.	DRAWIN





7	
	L

22/2017	09/26/2017	12/21/2017
0.5 U	0.69	0.45 J
0.82 J	5.9	5.4
1.9 J	12	12
1.7 J	18	12
0.87 J	10	6.4
2.6 J	28	18

1/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017		
5 U	0.5 U	0.5 U	0.5 U	0.5 U		
5 U	2.5 U	2.5 U	2.5 U	2.5 U		
4	2.6	1.9 J	1.5 J	1.2 J		
5 U	2.5 U	2.5 U	2.5 U	2.5 U		
5 U	2.5 U	2.5 U	2.5 U	2.5 U		
5 U	2.5 U	2.5 U	2.5 U	2.5 U		

1/2016	03/30/2017	06/22/2017	09/26/2017	09/26/2017	12/21/2017
IS	0.5 U				
IS	1.6 J	1.7 J	0.89 J	0.73 J	0.74 J
IS	5.4	6.5	6.9	6.2	4.7
IS	1.6 J	1.9 J	2.5 U	2.5 U	2.5 U
IS	2.5 U				
IS	1.6 J	1.9 J	2.5 U	2.5 U	2.5 U

/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017

IS	0.5 U	0.5 U	0.5 U	0.5 U
IS	2.5 U	2.5 U	2.5 U	2.5 U
IS	0.73 J	2.5 U	2.5 U	2.5 U
IS	2.5 U	2.5 U	2.5 U	2.5 U
IS	2.5 U	2.5 U	2.5 U	2.5 U
IS	2.5 U	2.5 U	2.5 U	2.5 U

01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017
NS	5 U	NS	2 U	NS
NS	25 U	NS	10 U	NS
NS	14 J	NS	19	NS
NS	25 U	NS	10 U	NS
NS	25 U	NS	10 U	NS
NS	25 U	NS	10 U	NS

9/08/2016	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017
DUP					
0.5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U
2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

1/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017
5 U	0.62	0.43 J	0.62	1.2
5 U	2.5 U	2.5 U	2.5 U	2.5 U
73 J	2.5	1.1 J	1.4 J	1.4 J
5 U	2.5 U	2.5 U	2.5 U	2.5 U
5 U	2.5 U	2.5 U	2.5 U	2.5 U
5 U	2.5 U	2.5 U	2.5 U	2.5 U

LEGEND	
^{₩₩-5}	LOCATION AND DESIGNATION OF MONITORING WELL (NO LNAPL PRESENT)
MW-3	LOCATION AND DESIGNATION OF MONITORING WELL (LNAPL PRESENT)
RW-1_	LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL (LNAPL THICKNESS SHOWN IF PRESENT)
	LOCATION AND DESIGNATION OF PERMANENT ISCO INJECTION POINT
	LOCATION OF FIRST ROUND ISCO INJECTION POINT
(0.38 ft)	LNAPL THICKNESS
GC AREA 1 (4-6 FT BLS)	DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL LIMITS OF REMAINING GROSSLY CONTAMINATED MATERIAL BASED ON FIELD OBSERVATION AND RESULTS OF POST-EXCAVATION SAMPLING AND FIELD SCREENING
ft	FEET
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
ISCO	IN-SITU CHEMICAL OXIDATION
	CONCRETE VAULT
	PROPERTY BOUNDARY
GT-6	APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
	CONCRETE SLAB

TYPICAL DATA BOX INFORMATION

SAMPLE ID. —	MW-48	12/01/2016	SAMPLE DATE
	COCs		
Г	Benzene	0.5 U	17
	Ethylbenzene	2.5 U	
	Isopropylbenzene (Cumene)	4	
ANALITES —	m,p-Xylene	2.5 U	
	O-Xylene (1,2-Dimethylbenzene)	2.5 U	
	Xylenes	2.5 U]_

PARAMETER	STANDARDS*
Benzene	1
Ethylbenzene	5
lsopropylbenzene (Cumene)	5
m,p-Xylene	5
O-Xylene (1,2-Dimethylbenzene)	5
Xylenes	5
روبر CONCENTRATIONS IN	/L

- µg/L MICROGRAMS PER LITER
- * NYSDEC AWQSGVs
- NYSDEC NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- AWQSGVs AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
- - NO NYSDEC AWQSGV AVAILABLE
- DUP DUPLICATE SAMPLE
- J ESTIMATED VALUE
- NS NOT SAMPLED
- U COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
- BOLD INDICATES THAT PARAMETER WAS DETECTED ABOVE THE NYSDEC AWQSGVS

<u>NOTES</u>

- AN OBSERVABLE SHEEN WAS RECORDED DURING PURGE AT MONITORING WELLS MW-7, MW-34 AND MW-45, AND WERE NOT SAMPLED.
- MONITORING WELLS MW-14 AND MW-15 WENT DRY DURING PURGE AND WERE NOT SAMPLED.

TITLE: VOCs AND LNAPL DETECTED IN GROUNDWATER DECEMBER 2016 TO DECEMBER 2017

30'

FIGURE



LEGEND	
^{₩₩-5} 🔶	LOCATION AND DESIGNATION OF MONITORING WELL
RW-1	LOCATION AND DESIGNATION OF LNAPL RECOVERY WELL
	LOCATION AND DESIGNATION OF PERMANENT ISCO INJECTION POINT
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
ISCO	IN-SITU CHEMICAL OXIDATION
	CONCRETE VAULT
	PROPERTY BOUNDARY
GT-6	APPROXIMATE LOCATION AND DESIGNATION OF OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
	INSTALLED ASPHALT CAP
	EXISTING CONCRETE PAVEMENT
	INSTALLED RECYCLED CONCRETE AGGREGATE (MIN. 2 FT)
	EXISTING BUILDING SLAB



45TH ROAD

- -8' O/S OF EASTERLY STREET LINE

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(TITLE L V

LEGEND	
PD-12-S-B	EXCAVATION BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
PD-10	EXCAVATION SIDWEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
SC-04-SW-B-SR	CONCRETE SLAB BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS
SC-05-NW-B-S	EXCAVATION BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
D-55	EXCAVATION SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS
SC-04-SW-B-S	CONCRETE SLAB BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS (SEE NOTE 1)
SC-04-NE	POTENTIAL SAMPLE LOCATION AND DESIGNATION ABANDONED DUE TO REFUSAL
	PROPERTY BOUNDARY
GT-6	APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE)
D-5	APPROXIMATE LOCATION AND DESIGNATION OF DISHED UNDERGROUND STORAGE TANK (REMOVED)
	REMEDIAL ACTION EXCAVATION LIMITS
	CONCRETE SLAB
	9 FT BLS EXCAVATION FOOTPRINT
	11 FT BLS EXCAVATION FOOTPRINT (TOPOGRAPHY OF CONCRETE SLAB)
	13 FT BLS EXCAVATION FOOTPRINT
	15 FT-15.5 FT BLS EXCAVATION FOOTPRINT
	16 FT BLS EXCAVATION FOOTPRINT
	17 FT BLS EXCAVATION FOOTPRINT
	18 FT BLS EXCAVATION FOOTPRINT
GC AREA 1 (4-6 FT BLS)	DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL LIMITS OF REMAINING GROSSLY CONTAMINATED MATERIAL BASED ON FIELD OBSERVATION AND RESULTS OF POST— EXCAVATION SAMPLING AND FIELD SCREENING





FT BLS - FEET BELOW LAND SURFACE

- 1. CONCRETE SLAB LOCATED IN COURTYARD AT APPROXIMATELY 11 TO 13 FT BLS WAS NOT REMOVED DURING REMEDIAL ACTION DUE TO SIZE. POST EXCAVATION SOIL SAMPLES WERE COLLECTED AT ACCESSIBLE EDGE BENEATH CONCRETE SLAB AS SHOWN DURING THE PERFORMANCE OF THE REMEDIAL ACTION.
- 2. GROSS CONTAMINATION PRESENT FROM 17.5' TO 20' BLS. ADDITIONAL EXCAVATION NOT PERFORMED DUE TO LIMITATIONS OF SHORING METHOD USED.

UN	ABAND IDERGROUND STO	ONED IN PLACE DRAGE TANK INF	ORMATION
	ESTIMATED	ESTIMATED	ESTIMATED
TANKID	DIAMETER (FT)	LENGTH (FT)	CAPACITY (GAL)
GT-1	10	36	21,000
GT-2	10	13	7,500
GT-3A	10	11.5	6,700
GT-3B	10	11.5	6,700
GT-4A	10	9	5,000
GT-4B	10	9	5,000
GT-5A	10	12	7,000
GT-5B	10	12	7,000
GT-5C	10	12	7,000
GT-6	10	36	21,000
REMOVE	ED UNDERGROUN	ND STORAGE TAN	K INFORMATION
D-1	6	12	2,500
D-2	6	10	2,000
D-3	6	10	2,000
D-4	6	10	2,000
D-5	6	10	2,000

CONTAMINATION REMAINING IN SOIL AFTER THE REMEDIAL ACTION WITHIN COURTYARD

TITLE:



LEGEND GT-1-E-B GT-6-N-SW GT-4A-E-B GT-5C-W-B GT-2-N-SW

GT-6

POTENTIAL CONFIRMATORY SOIL SAMPLE LOCATION AND DESIGNATION WHERE CONCRETE REFUSAL ENCOUNTERED UNDERGROUND STORAGE TANK BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION BENEATH CONCRETE SLAB WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS

UNDERGROUND STORAGE TANK SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN DETECTIONS BELOW CLEANUP STANDARDS

UNDERGROUND STORAGE TANK BOTTOM SOIL SAMPLE LOCATION AND DESIGNATION BENEATH CONCRETE SLAB WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS

UNDERGROUND STORAGE TANK SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION WITH COMPOUND OF CONCERN EXCEEDANCES OF CLEANUP STANDARDS PROPERTY BOUNDARY

APPROXIMATE LOCATION AND DESIGNATION OF UNDERGROUND STORAGE TANK (ABANDONED IN PLACE) GC AREA 8 DESIGNATION AND INFERRED HORIZONTAL AND VERTICAL (9-13 FT BLS) BASED ON FIELD OBSERVATION AND RESULTS OF POST-EXCAVATION SAMPLING AND FIELD SCREENING

Parameter	Standards*
Farameter	(µg/kg)
VOCs	
Benzene	60
Isopropylbenzene	**2300
CONCENTRATIONS	IN µg∕kg

µg/kg – MICROGRAMS PER KILOGRAM

- NYSDEC NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- * NYSDEC PART 375 PROTECTION OF GROUNDWATER
- ** NYSDEC CP-51 PROTECTION OF GROUNDWATER STANDARDS
- VOCS VOLATILE ORGANIC COMPOUNDS
- ND NO DETECTION NE - NO EXCEEDANCE
- FT BLS FEET BELOW LAND SURFACE

CONTAMINATION REMAINING IN SOIL AFTER THE REMEDIAL ACTION WITHIN THE GARAGE

TITLE:

FIGURE

4

Periodic Review Report Site No. C241108 Long Island City, NY

APPENDICES

- A. IC/EC Certification Form
- B. Site Inspection Checklists and Photo Log
- C. Groundwater Monitoring Results
- D. LNAPL Recovery System Monitoring Logs
- E. NYSDEC Site Management Plan Approval
- F. Response to November 17, 2017 NYDEC Comment Letter
- G. NYSDEC Response Letter to SMP Modifications

Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX A

IC/EC Certification Form



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No.	C241108	Site Details		Box 1	
Sit	e Name Pa	aragon Paint and V	arnish Corp			
Site Cit Co Site	e Address: y/Town: Lo unty: Queer e Acreage:	5-49 46th Avenue ong Island City is 0.8	Zip Code: 11101-5214			
	porting Pen	ou. December 15, 2	2016 to April 15, 2016			
					YES	NO
1.	Is the infor	mation above correc	ot?		X	
	lf NO, inclu	ude handwritten abo	ve or on a separate sheet.			
2.	Has some tax map ar	or all of the site prop mendment during thi	perty been sold, subdivided, me is Reporting Period?	rged, or undergone a		X
3.	Has there (see 6NYC	been any change of CRR 375-1.11(d))?	use at the site during this Repo	orting Period	[])	X
4.	Have any f for or at the	federal, state, and/o e property during thi	r local permits (e.g., building, dis s Reporting Period?	scharge) been issued		X
	If you ans that docu	wered YES to ques mentation has been	tions 2 thru 4, include docum n previously submitted with th	nentation or evidence his certification form		
5.	Is the site	currently undergoing	J development?	•		X
			Т			
					Box 2	
					YES	NO
6.	Is the curre Restricted-	ent site use consiste Residential, Comme	nt with the use(s) listed below? ercial, and Industrial		X	
7.	Are all ICs.	/ECs in place and fu	nctioning as designed?		X	
۸ <i>۲</i>	IF T	HE ANSWER TO EIT DO NOT COMPLET	THER QUESTION 6 OR 7 IS NO, TE THE REST OF THIS FORM.	sign and date below a Otherwise continue.	ind	1105
		Omar Ram	tar to sign and date when	n finalized	1696 199	
	nature of C		ar Decimated Paragentation			
Sig	nature of Ov	vner, Remedial Party	or Designated Representative	Date		

		Box 2	?A
9 Has any new information reveals	d that accumptions made in the Qualitative Funa	YES	NO
Assessment regarding offsite cor	ntamination are no longer valid?		X
If you answered YES to questic that documentation has been p	on 8, include documentation or evidence previously submitted with this certification form	n.	
9. Are the assumptions in the Qualit (The Qualitative Exposure Asses	tative Exposure Assessment still valid? sment must be certified every five years)	×	
If you answered NO to question updated Qualitative Exposure A	n 9, the Periodic Review Report must include a Assessment based on the new assumptions.	n	
SITE NO. C241108		Bo	x 3
Description of Institutional Cont	rols		
Ircel Owner 26-4 CSC 4540 CSC 4540 CSC 4540 onduct groundwater monitoring Ompliance with a soil management pla ompliance with a soil management pla Provide the sold management pla repare periodic review reports Provide the sold management pla erform OM&M as per the SMP Valuate vapor intrusion before occupyi	D Property Co, LLC, c/o Simon Dev Ground Water Soil Manager Monitoring Pla Site Manager O&M Plan IC/EC Plan Site Owner to confirm accuracy of Owner Descr	ontrol Use Restric nent Plan nent Plan	tion
lo vegetable gardens		_	
o vegetable gardens		Вох	(4
o vegetable gardens Description of Engineering Cont	rols	Вох	(4
Description of Engineering Contra Description 26-4	rols Engineering Control	Вох	

	I certify by checking "YES" below that:				
	 a) the Periodic Review report and all attachments were prepared under the dire reviewed by, the party making the certification; 	ction of	, and		
	b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted				
	engineering practices, and the information presented is accurate and compete.				
		X	[]		
	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below tha following statements are true:	each li at all of t	nstitutiona he		
	(a) the Institutional Control and/or Engineering Control(s) employed at this site i since the date that the Control was put in-place, or was last approved by the De	s uncha partmer	inged ht;		
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public ł	nealth and		
	(c) access to the site will continue to be provided to the Department, to evaluate remedy, including access to evaluate the continued maintenance of this Control;	the			
	(d) nothing has occurred that would constitute a violation or failure to comply wi Site Management Plan for this Control; and	th the			
	(e) if a financial assurance mechanism is required by the oversight document fo mechanism remains valid and sufficient for its intended purpose established in the time of the setablished in the setablish	r the sit ne docu	e, the ment.		
		YES	NO		
		X			
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.				
4	Corrective Measures Work Plan must be submitted along with this form to address t	hese is:	sues.		
	Omar Ramotar to sign and date when finalized				

Box 5

	IC CERTIFICATIONS SITE NO. C241108
	BUX 0
SITE OWNER OR DE I certify that all information and stateme statement made herein is punishable a Penal Law.	SIGNATED REPRESENTATIVE SIGNATURE ents in Boxes 1,2, and 3 are true. I understand that a false is a Class "A" misdemeanor, pursuant to Section 210.45 of the
I	at,
print hame	
am certifying as	(Owner or Remedial Party)
for the Site named in the Site Details S Omar Ramotar to fill in b	ection of this form. planks, sign and date when finalized
Signature of Owner, Remedial Party, or Rendering Certification	r Designated Representative Date

IC/EC CER	TIFICATIONS	
Professional	Engineer Signature	Box 7
I certify that all information in Boxes 4 and 5 are tropunishable as a Class "A" misdemeanor, pursuant	ue. I understand that a false statement ma to Section 210.45 of the Penal Law.	de herein is
Iat		
print name	print business address	
am certifying as a Professional Engineer for the		
	(Owner or Remedial Party)	
н		
Omar Ramotar to fill in blanks, s	sign and date when finalized	
Signature of Professional Engineer, for the Owner Remedial Party, Rendering Certification	or Stamp Date (Required for PE)	

Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX B

Site Inspection Checklists and Photo Log

ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: Thursday, September 08, 2016 Site Observations: Performed by (MS 9/8/16) on (Yes No [X] Have any Site improvements been made since last inspection? [] [] [X] Has there been any maintenance activity impacting engineering controls? [X] Are monitoring wells intact? [] -Include sketches or photos of observations Inspection of RCA Cap: Performed by (MS 9/8/16) **on** (Yes No [] Underlying demarcation barrier exposed? [X] [X] Are soil caps sloped to allow for drainage away from the peak? [] Inspection of Asphalt/Concrete Caps: Performed by (MS) on (9/8/16 Yes No [] [X] Significant cracks observed? Other damage observed? If yes, refer to Page 2 for additional clarification. [] $[\mathbf{X}]$ -Include sketches or photos of observations 9/8/16 Inspection of Building Covers: Performed by (MS) **on** (Yes No Were all buildings inspected? [X] [] [X] Significant cracks observed? [] [X] Other damage observed? If yes, refer to Page 2 for additional clarification. [] [X] Any new slab penetrations observed? If yes, include description on page 2. [] -Include sketched or photos of observations Inspection of LNAPL Recovery System : Performed by (MS) on (9/8/16 Yes No [X] [] Were all five (5) Recovery wells intact? [X] Were all five (5) AC Sipper reels operating properly? [] Were there any signs of corrosion on the 55 gallon drum? [] [X] [X] Were the fill alarm and spill alarms operating properly? [] [X] Was the secondary containment pallet intact? [] [X] Is the AC Sipper control panel intact? []



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 9/8/2016

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

Sampling to be completed today from monitoring wells in SMP monitoring network



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Jordanna Kendrot Date: Thursday, October 13, 2016 Site Observations: Performed by (JK 10/13/16) **on** (Yes No [X] Have any Site improvements been made since last inspection? [] [] [X] Has there been any maintenance activity impacting engineering controls? [X] Are monitoring wells intact? [] -Include sketches or photos of observations Inspection of RCA Cap: Performed by (10/13/16 JK) **on** (Yes No [] Underlying demarcation barrier exposed? [X] [X] Are soil caps sloped to allow for drainage away from the peak? [] Inspection of Asphalt/Concrete Caps: Performed by (JK) on (10/13/16 Yes No [] [X] Significant cracks observed? Other damage observed? If yes, refer to Page 2 for additional clarification. [] $[\mathbf{X}]$ -Include sketches or photos of observations Inspection of Building Covers: Performed by (JK) **on** (10/13/16 Yes No Were all buildings inspected? [X] [] [X] Significant cracks observed? [] [X] Other damage observed? If yes, refer to Page 2 for additional clarification. [] [X] Any new slab penetrations observed? If yes, include description on page 2. [] -Include sketched or photos of observations Inspection of LNAPL Recovery System : Performed by (JK) on (10/13/16 Yes No [X] [] Were all five (5) Recovery wells intact? [X] Were all five (5) AC Sipper reels operating properly? [] [X] Were there any signs of corrosion on the 55 gallon drum? [] [X] Were the fill alarm and spill alarms operating properly? [] [X] Was the secondary containment pallet intact? [] [X] [] Is the AC Sipper control panel intact?



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Jordanna Kendrot Date: 10/13/2016

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

	Client:	Vernon 4540 Realty LLC					
L	ocation:	5-49 46th Avenue, Long Island City, Queen	ns, New York				
Inspector:		Michael Sarni					
	Date:	Tuesday, November 15, 2016					
Site Ob	servatio	ons: Performed by (MS) on (11/15/16)		
Yes	No						
[]	[X]	Have any Site improvements been made since	e last inspectior	n?			
[]	[X]	Has there been any maintenance activity impa	acting engineer	ing controls?			
[X]	[]	Are monitoring wells intact?					
		-Include sketches or photos of observations					
Inspect	ion of R	CA Cap: Performed by (MS) on (11/15/16)		
Yes	No						
[]	[X]	Underlying demarcation barrier exposed?					
[X]	[]	Are soil caps sloped to allow for drainage aw	ay from the pea	ak?			
Inspect	ion of A	sphalt/Concrete Caps: Performed by (MS) on (11/15/16)	
Yes	No						
[]	[X]	Significant cracks observed?					
[]	[X]	Other damage observed? If yes, refer to Page	2 for additiona	al clarification.			
		-Include sketches or photos of observations					
Inspect	ion of B	uilding Covers: Performed by (MS)	on (11/1	5/16)		
Yes	No						
[X]	[]	Were all buildings inspected?					
[]	[X]	Significant cracks observed?					
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.					
[]	[X]	Any new slab penetrations observed? If yes, i	nclude descript	tion on page 2.			
		-Include sketched or photos of observations					
Inspect	ion of L	NAPL Recovery System : Performed by (MS	S) on (11/15/16)	
Yes	No						
[X]	[]	Were all five (5) Recovery wells intact?					
	[X]	Were all five (5) AC Sipper reels operating p	roperly? See p	og. 2			
[]		Were there any signs of corrosion on the 55 g	gallon drum?				
[]	[X]	, , , , , , , , , , , , , , , , , , , ,					
[] [] [X]	[X] []	Were the fill alarm and spill alarms operating	; properly?				
[] [] [X] [X]	[X] [] []	Were the fill alarm and spill alarms operating Was the secondary containment pallet intact?	g properly?				



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM

Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 11/15/2016

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery System was turned off (breaker when hooked into system was shut off entirely). Brekaer turned back on and system restarted


	Client:	vernon 4540 Realty LLC					
	Location:	5-49 46th Avenue, Long Isl	and City, Quee	ens, New York			
1	nspector:	Michael Sarni					
	Date:	Thursday, December 01, 20)16				
Site O	bservatio	ons: Performed by (MS) on (12/1/16)	
Yes	No						
[]	[X]	Have any Site improvements	been made sind	ce last inspection	n?		
[]	[X]	Has there been any maintena	nce activity imp	pacting engineer	ing controls?		
[X]	[]	Are monitoring wells intact?					
		-Include sketches or photos of	of observations				
Inspec	tion of R	CA Cap: Performed by (MS) on (12/1/16)	
Yes	No						
[]	[X]	Underlying demarcation barr	ier exposed?				
[X]	[]	Are soil caps sloped to allow	for drainage av	way from the pea	ak?		
Inspec	tion of A	sphalt/Concrete Caps: Peri	formed by (MS) on (12/1/16)
Yes	No						
[]	[X]	Significant cracks observed?					
[]	[X]	Other damage observed? If y	es, refer to Pag	e 2 for additiona	al clarification.		
		-Include sketches or photos of	of observations				
Inspec	tion of B	uilding Covers: Performed	by (MS)	on (12/1	/16)	
Yes	No						
			-				
[23]		Were all buildings inspected	?				
[]	[X]	Were all buildings inspected Significant cracks observed?	?				
[A] []	[X] [X]	Were all buildings inspected Significant cracks observed? Other damage observed? If y	? es, refer to Pag	e 2 for additiona	l clarification.		
[X] [] []	[X] [X] [X]	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of	? es, refer to Pag oserved? If yes,	e 2 for additiona include descrip	al clarification. tion on page 2.		
[X] [] []	[X] [X] [X]	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of	? es, refer to Pag oserved? If yes, of observations	e 2 for additiona include descrip	ll clarification. tion on page 2.		
[] [] []	[X] [X] [X] tion of L	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : F	? es, refer to Pag oserved? If yes, of observations Performed by (e 2 for additiona include descrip MS	al clarification. tion on page 2. S) on (12/1/16)
[] [] [] [] [] Yes	[X] [X] [X] tion of L No	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : P	? es, refer to Pag oserved? If yes, of observations Performed by (e 2 for additiona include descrip MS	al clarification. tion on page 2. S) on (12/1/16)
[] [] [] [] [] [] [] [] [] []	[X] [X] [X] tion of L No []	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : P Were all five (5) Recovery w	? es, refer to Pag oserved? If yes, of observations Performed by (Pells intact?	e 2 for additiona include descrip M	al clarification. tion on page 2. S) on (12/1/16)
[X] [] [] [] [] [X] [X]	[X] [X] [X] <u>tion of L</u> No [] []	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : F Were all five (5) Recovery w Were all five (5) AC Sipper f	? es, refer to Pag oserved? If yes, of observations Performed by (reells intact? reels operating p	e 2 for additiona include descrip <u>M</u> s properly?	al clarification. tion on page 2.	12/1/16)
[X] [] [] [] [] [] [X] [X] []	[X] [X] [X] tion of L No [] [] [] [X]	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : P Were all five (5) Recovery w Were all five (5) AC Sipper a Were there any signs of correct	? es, refer to Pag oserved? If yes, of observations erformed by (rells intact? reels operating posion on the 55	e 2 for additiona include descrip <u>M</u> s properly? gallon drum?	al clarification. tion on page 2.	12/1/16)
[X] [] [] [] [] [X] [X] [X] [X]	[X] [X] [X] tion of L No [] [] [X] []	Were all buildings inspected Significant cracks observed? If y Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : F Were all five (5) Recovery w Were all five (5) AC Sipper F Were there any signs of correct Were the fill alarm and spill	? es, refer to Pag oserved? If yes, of observations Performed by (rells intact? reels operating posion on the 55 alarms operatin	e 2 for additiona include descrip <u>M</u> properly? gallon drum? g properly?	al clarification. tion on page 2.	12/1/16)
[X] [] [] [] [] [X] [X] [X] [X]	[X] [X] [X] tion of L No [] [] [X] [] []	Were all buildings inspected Significant cracks observed? Other damage observed? If y Any new slab penetrations of -Include sketched or photos of NAPL Recovery System : P Were all five (5) Recovery w Were all five (5) AC Sipper of Were there any signs of correct Were the fill alarm and spill Was the secondary containm	? es, refer to Pag oserved? If yes, of observations cerformed by (rells intact? reels operating p osion on the 55 alarms operatin ent pallet intact	e 2 for additiona include descrip <u>Ms</u> properly? gallon drum? g properly? ?	al clarification. tion on page 2. S) on (12/1/16)



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 12/1/2016

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

Sampling to be completed today from monitoring wells in SMP monitoring network



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: Thursday, January 19, 2017 Site Observations: Performed by (MS 1/19/17) on (Yes No [X] Have any Site improvements been made since last inspection? [] [] [X] Has there been any maintenance activity impacting engineering controls? [X] Are monitoring wells intact? [] -Include sketches or photos of observations Inspection of RCA Cap: Performed by (MS 1/19/17) on (Yes No [] Underlying demarcation barrier exposed? [X] [X] Are soil caps sloped to allow for drainage away from the peak? [] Inspection of Asphalt/Concrete Caps: Performed by (MS) on (1/19/17 Yes No [] [X] Significant cracks observed? Other damage observed? If yes, refer to Page 2 for additional clarification. [] $[\mathbf{X}]$ -Include sketches or photos of observations 1/19/17 Inspection of Building Covers: Performed by (MS) **on** (Yes No Were all buildings inspected? [X][] [X] Significant cracks observed? [] [X] Other damage observed? If yes, refer to Page 2 for additional clarification. [] [X] Any new slab penetrations observed? If yes, include description on page 2. [] -Include sketched or photos of observations Inspection of LNAPL Recovery System : Performed by (MS) on (1/19/17 Yes No [X] [] Were all five (5) Recovery wells intact? [X] Were all five (5) AC Sipper reels operating properly? [] Were there any signs of corrosion on the 55 gallon drum? [] [X] [X] Were the fill alarm and spill alarms operating properly? [] [X] Was the secondary containment pallet intact? []

[X] [] Is the AC Sipper control panel intact?



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 1/19/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:



ROUX ASSOCIATES, INC. / REMEDIAL ENGINEERING, P.C. SITE-WIDE MONITORING, INSPECTION AND MAINTENANCE FORM Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: Tuesday, February 14, 2017 Site Observations: Performed by (MS 2/14/17) on (Yes No [X] Have any Site improvements been made since last inspection? [] [] [X] Has there been any maintenance activity impacting engineering controls? [X] Are monitoring wells intact? [] -Include sketches or photos of observations Inspection of RCA Cap: Performed by (MS 2/14/17) on (Yes No [] Underlying demarcation barrier exposed? [X] [X] Are soil caps sloped to allow for drainage away from the peak? [] Inspection of Asphalt/Concrete Caps: Performed by (MS) on (2/14/17 Yes No [] [X] Significant cracks observed? Other damage observed? If yes, refer to Page 2 for additional clarification. [] [X]-Include sketches or photos of observations Inspection of Building Covers: Performed by (MS) **on** (2/14/17 Yes No Were all buildings inspected? [X][] [X] Significant cracks observed? [] [X] Other damage observed? If yes, refer to Page 2 for additional clarification. [] [X] Any new slab penetrations observed? If yes, include description on page 2. [] -Include sketched or photos of observations Inspection of LNAPL Recovery System : Performed by (MS) on (2/14/17 Yes No [X] [] Were all five (5) Recovery wells intact? [X] Were all five (5) AC Sipper reels operating properly? [] Were there any signs of corrosion on the 55 gallon drum? [] [X] [X] Were the fill alarm and spill alarms operating properly? []

ROUX

[X]

[X]

[]

Was the secondary containment pallet intact?

[] Is the AC Sipper control panel intact?

Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 2/14/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:



	Client:	Vernon 4540 Realty LLC			
Ι	ocation:	5-49 46th Avenue, Long Island City, Queens, New York			
Ir	spector:	Michael Sarni			
	Date:	Thursday, March 30, 2017			
Site Ob	oservatio	ons: Performed by (MS) on (3/30/17)	
Yes	No				
[]	[X]	Have any Site improvements been made since last inspectio	n?		
[]	[X]	Has there been any maintenance activity impacting engineer	ring controls?		
[X]	[]	Are monitoring wells intact?			
		-Include sketches or photos of observations			
[nspect	ion of R	CA Cap: Performed by (MS) on (3/30/17)	
Yes	No				
[]	[X]	Underlying demarcation barrier exposed?			
[X]	[]	Are soil caps sloped to allow for drainage away from the pe	ak?		
inspect	ion of A	sphalt/Concrete Caps: Performed by (MS) on (3/30/17)
Yes	No				
[]	[X]	Significant cracks observed?			
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional	al clarification.		
		-Include sketches or photos of observations			
Inspect	ion of B	uilding Covers: Performed by (MS)) on (3/3	0/17)	
Yes	No	W/			
[X]		were all buildings inspected?			
		Significant cracks observed?	1 1 10		
		Other damage observed? If yes, refer to Page 2 for additional	al clarification.		
[]	[X]	Any new slab penetrations observed? If yes, include descrip	otion on page 2.		
-		-Include sketched or photos of observations	X	2/20//4 =	
Inspect	ion of L	NAPL Recovery System : Performed by (MS) on (3/30/17)
Yes	No				
		Were all five (5) Recovery wells intact?			
[X]		Were all five (5) AC Supper reels operating properly?			
[]	[X]	Were there any signs of corrosion on the 55 gallon drum?			
	Г 1	Were the fill alarm and spill alarms operating properly?			
[X]	LJ				
[X] [X]	[]	Was the secondary containment pallet intact?			



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 3/30/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

Sampling to be completed today from monitoring wells in the SMP monitoring network.

Recovery system to be shut off due to lack of recoverable product. Continue to inspect recovery system going forward.



	Client:	: Vernon 4540 Realty LLC
]	Location:	: 5-49 46th Avenue, Long Island City, Queens, New York
Ι	nspector:	: Michael Sarni
	Date:	: Monday, April 24, 2017
Site O	bservatio	ons: Performed by (MS) on (4/24/2017)
Yes	No	
[]	[X]	Have any Site improvements been made since last inspection?
[]	[X]	Has there been any maintenance activity impacting engineering controls?
[X]	[]	Are monitoring wells intact?
		-Include sketches or photos of observations (as necessary)
Inspec	tion of R	RCA Cap: Performed by (MS) on (4/24/2017)
Yes	No	
[]	[X]	Underlying demarcation barrier exposed?
[X]	[]	Are soil caps sloped to allow for drainage away from the peak?
Inspec	tion of A	Asphalt/Concrete Caps: Performed by (MS) on (4/24/2017)
Yes	No	
[]	[X]	Significant cracks observed?
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
		-Include sketches or photos of observations (as necessary)
Inspec	tion of B	Building Covers: Performed by (MS) on (4/24/2017)
Yes	No	
[X]	[]	Were all buildings inspected?
[]	[X]	Significant cracks observed?
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
[]	[X]	Any new slab penetrations observed? If yes, include description on page 2.
		-Include sketches or photos of observations (as necessary)
Inspec	tion of L	LNAPL Recovery System : Performed by (MS) on (4/24/2017)
Yes	No	
[X]	[]	Were all five (5) Recovery wells intact?
[]	[X]	Were all five (5) AC Sipper reels operating properly? See pg. 2
[]	[X]	Were there any signs of corrosion on the 55 gallon drum?
[X]	[]	Were the fill alarm and spill alarms operating properly?
[X]	[]	Was the secondary containment pallet intact?
[X]	[]	Is the AC Sipper control panel intact?



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 4/24/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



	Client:	Vernon 4540 Realty LLC					
Location		5-49 46th Avenue, Long Isla	and City, Quee	ns, New York	X		
I	nspector:	Michael Sarni					
	Date:	Wednesday, May 24, 2017					
Site Ol	oservatio	ons: Performed by (MS)	on (5	5/24/2017)	
Yes	No						
[]	[X]	Have any Site improvements	been made since	e last inspectio	on?		
[]	[X]	Has there been any maintenan	nce activity impa	acting enginee	ering controls	?	
[X]	[]	Are monitoring wells intact?					
		-Include sketches or photos of	f observations (as necessary)			
nspec	tion of R	CA Cap: Performed by (MS)	on (5	5/24/2017)	
Yes	No						
[]	[X]	Underlying demarcation barri	er exposed?				
[X]	[]	Are soil caps sloped to allow	for drainage aw	ay from the po	eak?		
nspec	tion of A	sphalt/Concrete Caps: Perfe	ormed by (MS) on (5/24/2017)
Yes	No						
[]	[X]	Significant cracks observed?					
[]	[X]	Other damage observed? If ye	es, refer to Page	2 for addition	nal clarification	on.	
		-Include sketches or photos of	f observations (a	as necessary)			
nspec	tion of B	uilding Covers: Performed I	by (MS	5) on (5/24/2	2017)	
Yes	No						
[X]		Were all buildings inspected?	•				
	[X]	Significant cracks observed?					
	1 X I						
[]		Other damage observed? If ye	es, refer to Page	2 for addition	nal clarification	on.	
[]	[X]	Other damage observed? If ye Any new slab penetrations ob	es, refer to Page served? If yes, i	2 for addition	nal clarification ption on page	on. 22.	
[]	[X]	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of	es, refer to Page served? If yes, i f observations (a	2 for addition include descrip as necessary)	nal clarification page	on. 2.	
[] []	[X] [X]	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Pe	es, refer to Page (served? If yes, i f observations (erformed by (2 for addition include descrip as necessary) <u>MS</u>	nal clarification ption on page) on (on. 2. 5/24/2017)
[] [] [] [] [] []	[X] [X] tion of L No	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Pe	es, refer to Page served? If yes, i f observations (erformed by (2 for addition include descrip as necessary) <u>MS</u>	nal clarification ption on page) on (on. 2. <u>5/24/2017</u>)
[] nspect Yes [X]	[X] [X] tion of L No []	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Pe Were all five (5) Recovery we	es, refer to Page served? If yes, i f observations (erformed by (ells intact?	2 for addition include descrip as necessary) <u>MS</u>	nal clarification ption on page) on (on. 2. <u>5/24/2017</u>)
[] [] [] [] []	[X] [X] tion of L No [] [X]	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Pe Were all five (5) Recovery we Were all five (5) AC Sipper re	es, refer to Page served? If yes, i f observations (a erformed by (ells intact? eels operating p	2 for addition include descrip as necessary) <u>MS</u> roperly? <mark>See j</mark>	nal clarification ption on page) on (pg. 2	on. 2. <u>5/24/2017</u>)
[] [] [] [] [] []	[X] [X] tion of L No [] [X] [X]	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Penetry Were all five (5) Recovery we Were all five (5) AC Sipper re Were there any signs of corro	es, refer to Page served? If yes, i f observations (erformed by (ells intact? eels operating p ssion on the 55 g	2 for addition include descrip as necessary) <u>MS</u> roperly? See p gallon drum?	nal clarification ption on page) on (pg. 2	on. 2. <u>5/24/2017</u>)
[] [] [] [] [] [] [X]	[X] [X] tion of L No [] [X] [X] []	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Pe Were all five (5) Recovery we Were all five (5) AC Sipper re Were there any signs of corro Were the fill alarm and spill a	es, refer to Page served? If yes, if observations (if erformed by (ells intact? eels operating p sion on the 55 g alarms operating	2 for addition include descrip as necessary) <u>MS</u> roperly? See p gallon drum? properly?	nal clarification ption on page) on (pg. 2	on. 2. <u>5/24/2017</u>)
[] [] [] [] [] [] [X] [X]	[X] [X] tion of L No [] [X] [] []	Other damage observed? If ye Any new slab penetrations ob -Include sketches or photos of NAPL Recovery System : Penetry Were all five (5) Recovery we Were all five (5) AC Sipper re Were there any signs of corro Were the fill alarm and spill a Was the secondary containme	es, refer to Page served? If yes, i f observations (erformed by (ells intact? eels operating p sion on the 55 g alarms operating ent pallet intact?	2 for addition include descri as necessary) <u>MS</u> roperly? See j gallon drum? ; properly?	nal clarification ption on page) on (pg. 2	on. 2. <u>5/24/2017</u>)



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 5/24/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



	Client:	: Vernon 4540 Realty LLC
L	ocation:	: 5-49 46th Avenue, Long Island City, Queens, New York
In	spector:	: Michael Sarni
	Date:	: <u>Thursday</u> , June 22, 2017
Site Ob	servatio	ons: Performed by (MS) on (6/22/2017)
Yes	No	
[]	[X]	Have any Site improvements been made since last inspection?
[]	[X]	Has there been any maintenance activity impacting engineering controls?
[X]	[]	Are monitoring wells intact?
		-Include sketches or photos of observations (as necessary)
Inspect	ion of R	RCA Cap: Performed by (MS) on (6/22/2017)
Yes	No	
[]	[X]	Underlying demarcation barrier exposed?
[X]	[]	Are soil caps sloped to allow for drainage away from the peak?
Inspect	ion of A	Asphalt/Concrete Caps: Performed by (MS) on (6/22/2017)
Yes	No	
[]	[X]	Significant cracks observed?
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
		-Include sketches or photos of observations (as necessary)
Inspect	ion of B	Building Covers: Performed by (MS) on (6/22/2017)
Yes	No	
[X]		Were all buildings inspected?
[]	[X]	Significant cracks observed?
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
[]	[X]	Any new slab penetrations observed? If yes, include description on page 2.
		-Include sketches or photos of observations (as necessary)
Inspect	ion of L	LNAPL Recovery System : Performed by (MS) on (6/22/2017)
Yes	No	
[X]	[]	Were all five (5) Recovery wells intact?
[]	[X]	Were all five (5) AC Sipper reels operating properly? See pg. 2
[]	[X]	Were there any signs of corrosion on the 55 gallon drum?
[X]	[]	Were the fill alarm and spill alarms operating properly?
[X]	[]	Was the secondary containment pallet intact?
[X]	[]	Is the AC Sipper control panel intact?



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 6/22/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



T	ocation	5-49 46th Avenue, Long	Island City	Queens New	York		
I	spector:	Michael Sarni	, island City,	Queens, itew			
	Date:	Thursday, July 27, 2017	7				
Site Ol	oservatio	ons: Performed by (MS) on (7/27/2017)	
Yes	No						
[]	[X]	Have any Site improvement	ents been mad	le since last in	spection?		
[]	[X]	Has there been any maint	tenance activi	ty impacting e	ngineering control	ls?	
[X]	[]	Are monitoring wells inta	act?				
		-Include sketches or phot	os of observa	tions (as neces	sary)		
Inspec	tion of R	CA Cap: Performed by	(MS) on (7/27/2017)	
Yes	No						
[]	[X]	Underlying demarcation	barrier expose	ed?			
[X]	[]	Are soil caps sloped to al	low for draina	age away from	the peak?		
Inspec	tion of A	sphalt/Concrete Caps: 1	Performed by	y (M\$	5) on (7/27/2017)
Voc	No						
1 65	110						
[]	[X]	Significant cracks observ	ed?				
[]	[X] [X]	Significant cracks observ Other damage observed?	ed? If yes, refer to	o Page 2 for ac	lditional clarificat	ion.	
[]	[X] [X]	Significant cracks observ Other damage observed? -Include sketches or phot	ed? If yes, refer to os of observa	o Page 2 for ac tions (as neces	lditional clarificat sary)	ion.	
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Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 7/27/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



Т	ocation	5-40 A6th Avenue I engl	sland City	Queens New	Vork		
I It	nspector:	Michael Sarni	isialiu City,	IUIK			
	Date:	Tuesday, August 29, 2017	7				
Site O	oservatio	ons: Performed by (MS) on (8/29/2017)	
Yes	No						
[]	[X]	Have any Site improvement	nts been mad	le since last in	spection?		
[]	[X]	Has there been any mainter	nance activit	ty impacting e	ngineering control	s?	
[X]	[]	Are monitoring wells intac	et?				
		-Include sketches or photos	s of observat	tions (as neces	sary)		
Inspec	tion of R	CA Cap: Performed by (MS) on (8/29/2017)	
Yes	No						
[]	[X]	Underlying demarcation ba	arrier expose	ed?			
[X]	[]	Are soil caps sloped to allo	ow for draina	age away from	the peak?		
Inspec	tion of A	sphalt/Concrete Caps: Pe	erformed by	y (M	S) on (8/29/2017)
Yes	No						
гт	[V]						
IJ		Significant cracks observed	d?				
[]	[X]	Significant cracks observed Other damage observed? If	d? f yes, refer to	o Page 2 for ac	lditional clarificat	ion.	
[]	[X]	Significant cracks observed Other damage observed? If -Include sketches or photos	d? f yes, refer to s of observat	o Page 2 for ac tions (as neces	lditional clarificat sary)	ion.	
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Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 8/29/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



L	ocation:	5-49 46th Avenue, Long	Island City,	Queens, Ne	w York		
Ir	spector:	Michael Sarni					
	Date:	Tuesday, September 26,	2017				
Site Ob	servatio	ons: Performed by (MS) on (9/26/2017)	
Yes	No						
[]	[X]	Have any Site improvement	nts been mac	de since last i	nspection?		
[]	[X]	Has there been any mainte	enance activi	ty impacting	engineering contro	ls?	
[X]	[]	Are monitoring wells intac	ct?				
		-Include sketches or photo	s of observa	tions (as nece	essary)		
Inspect	ion of R	CA Cap: Performed by ((MS	5) on (9/26/2017)	
Yes	No						
[]	[X]	Underlying demarcation b	arrier expose	ed?			
[X]	[]	Are soil caps sloped to all	ow for draina	age away froi	m the peak?		
Inspect	ion of A	sphalt/Concrete Caps: P	erformed by	y (N	IS) on (9/26/2017)
Vac	No						
1 es	110						
1 es	[X]	Significant cracks observe	ed?				
1 es [] []	[X] [X]	Significant cracks observe Other damage observed? I	d? f yes, refer t	o Page 2 for a	additional clarificat	ion.	
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Ies [] Inspect Yes [X] []	[X] [X] [X] ion of B No [] [X] [X] [X] [X] [X] [X] [X] [] []	Significant cracks observe Other damage observed? I -Include sketches or photo Guilding Covers: Perform Were all buildings inspect Significant cracks observe Other damage observed? I Any new slab penetrations -Include sketches or photo MAPL Recovery System : Were all five (5) Recovery Were all five (5) AC Sippe Were there any signs of co Were the fill alarm and sp Was the secondary contain	d? f yes, refer to s of observa ed by (ed? d? f yes, refer to s observed? I os of observa Performed y wells intact er reels opera orrosion on the ill alarms op ment pallet	o Page 2 for a tions (as nece <u>MS</u> o Page 2 for a of yes, include tions (as nece d by (t? ating properly he 55 gallon of erating proper intact?	additional clarificat essary)) on (9/26 additional clarificat e description on pagessary) MS) on (y? See pg. 2 drum? rly?	ion. j/2017) ion. ge 2. 9/26/2017)



Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 9/26/2017

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.



	Client:	: Vernon 4540 Realty LLC
Ι	Location:	: 5-49 46th Avenue, Long Island City, Queens, New York
I	nspector:	: Michael Sarni
	Date:	: <u>Tuesday, March 20, 2018</u>
Site Ol	oservatio	ons: Performed by (MS) on (3/20/2018)
Yes	No	
[]	[X]	Have any Site improvements been made since last inspection?
[]	[X]	Has there been any maintenance activity impacting engineering controls?
[]	[X]	Are monitoring wells intact? See pg. 2
		-Include sketches or photos of observations (as necessary)
Inspec	tion of R	RCA Cap: Performed by (MS) on (3/20/2018)
Yes	No	
[]	[X]	Underlying demarcation barrier exposed?
[X]	[]	Are soil caps sloped to allow for drainage away from the peak?
Inspec	tion of A	Asphalt/Concrete Caps: Performed by (MS) on (3/20/2018)
Yes	No	
[]	[X]	Significant cracks observed?
[]	[X]	Other damage observed? If yes, refer to Page 2 for additional clarification.
		-Include sketches or photos of observations (as necessary)
Inspec	tion of B	Building Covers: Performed by (MS) on (3/20/2018)
Yes	No	
		Significant cracks observed?
		Other damage observed ? If yes, refer to Page 2 for additional clarification.
ĹĴ	[X]	Any new slab penetrations observed? If yes, include description on page 2.
r .	et	-Include sketches or photos of observations (as necessary)
Vez	uon of L	2NAPL Recovery System : Performed by (MIS) on (3/20/2018)
res		
		Were all five (5) AC Since reals according managers? See real
		Were there are sizes of correction on the 55 cellen dr. u.2
		were there any signs of corrosion on the 55 gallon drum?
[X]		Were the fill alarm and spill alarms operating properly?
		was the secondary containment pallet intact?

Client: Vernon 4540 Realty LLC Location: 5-49 46th Avenue, Long Island City, Queens, New York Inspector: Michael Sarni Date: 3/20/2018

Site Observations

See pg. 1

Additional Comments or Clarification Where Corrective Actions May Be Required:

The concrete pad surrounding monitoring well MW-43 was damaged and removed. New pad will be constructed as soon as possible.

LNAPL Recovery system has been off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Photos of inspection attached.





Photograph 1: Condition of driveway looking south



Photograph 2: Conditions of paint factory, garage, and warehouse looking southeast





Photograph 3: Condition of paint factory looking east



Photograph 4: Aerial view of courtyard





Photograph 5: Aerial view of east end of courtyard and paint factory



Photograph 6: Aerial view of courtyard leading into warehouse





Photograph 7: Aerial view of intersection between driveway and courtyard



Photograph 8: Condition of courtyard and entrance to paint factory





Photograph 9: Intersection of driveway and courtyard looking west



Photograph 10: Condition of driveway and warehouse looking west





Photograph 11: Designated drum storage area with secondary containment pad



Photograph 12: Geotech AC Sipper control panel





Photograph 13: Condition of warehouse basement



Photograph 14: One of five Geotech AC Sipper pumps installed in recovery wells



Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX C

Groundwater Monitoring Results

Vernon 4540 Realty, LLC-Former Para	gon Paint Varnish Co., 46th Ave	Vernon Blvd., Long Islar	nd City, New York
· · · · · · · · · · · · · · · · · · ·	J		···· ····

	nation:	MW-2R	MW-2R	MW-4	MW-4	MW-4	MW-4	MW-4	
	Sampl	e Date:	06/22/2017	09/26/2017	03/30/2017	06/22/2017	09/26/2017	09/26/2017	12/21/2017
Norm	nal or Field Du	plicate:	N	N	N	N	N	FD	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	6.2 U	2.5 U					
1,1,2,2-Tetrachloroethane	5	UG/L	1.2 U	0.5 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	6.2 U	2.5 U					
1,1,2-Trichloroethane	1	UG/L	3.8 U	1.5 U					
1,1-Dichloroethane	5	UG/L	6.2 U	2.5 U					
1,1-Dichloroethene	5	UG/L	1.2 U	0.5 U					
1,2,3-Trichlorobenzene	5	UG/L	6.2 U	2.5 U					
1,2,4-Trichlorobenzene	5	UG/L	6.2 U	2.5 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	6.2 U	2.5 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	5 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	6.2 U	2.5 U					
1,2-Dichloroethane	0.6	UG/L	1.2 U	0.5 U					
1,2-Dichloropropane	1	UG/L	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	76	39	14	14	8.2	6.8	4.8
1,3-Dichlorobenzene	3	UG/L	6.2 U	2.5 U					
1,4-Dichlorobenzene	3	UG/L	6.2 U	2.5 U					
1,4-Dioxane (P-Dioxane)		UG/L	620 U	250 U					
2-Hexanone	50	UG/L	12 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	6.2 J	7.6	5 U	5 U	4.1 J	3.9 J	5 U
Benzene	1	UG/L	1.2 U	0.5 U					
Bromochloromethane	5	UG/L	6.2 U	2.5 U					
Bromodichloromethane	50	UG/L	1.2 U	0.5 U					
Bromoform	50	UG/L	5 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	6.2 U	2.5 U					
Carbon Disulfide	60	UG/L	23	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	1.2 U	0.5 U					
Chlorobenzene	5	UG/L	6.2 U	2.5 U					
Chloroethane	5	UG/L	6.2 U	2.5 U					
Chloroform	7	UG/L	6.2 U	2.5 U					
Chloromethane		UG/L	6.2 U	2.5 U					
Cis-1,2-Dichloroethylene	5	UG/L	6.2 U	2.5 U					
Cis-1,3-Dichloropropene	5	UG/L	1.2 U	0.5 U					
Dibromochloromethane	50	UG/L	1.2 U	0.5 U					
Dichlorodifluoromethane	5	UG/L	12 U	5 U	5 U	5 U	5 U	5 U	5 U



Vernon 4540 Realt	v, LLC-Former	Paragon Pair	nt Varnish Co.,	46th Ave Vern	on Blvd., Lon	g Island City	v. New Y	/ork
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Sample Designation:			MW-2R	MW-2R	MW-4	MW-4	MW-4	MW-4	MW-4
Sample Date:			06/22/2017	09/26/2017	03/30/2017	06/22/2017	09/26/2017	09/26/2017	12/21/2017
Normal or Field Duplicate:			N	N	N	N	N	FD	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	6.2 U	2.5 U					
Ethylbenzene	5	UG/L	5.4 J	2.5 U	1.6 J	1.7 J	0.89 J	0.73 J	0.74 J
Isopropylbenzene (Cumene)	5	UG/L	17	11	5.4	6.5	6.9	6.2	4.7
m,p-Xylene	5	UG/L	6.7	1.1 J	1.6 J	1.9 J	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	7.6 J	3.3 J	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	12 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	6.2 U	2.5 U					
N-Propylbenzene	5	UG/L	29	18	5.8	7.6	5.8	4.9	3.7
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	5.2 J	0.73 J	2.5 U				
Sec-Butylbenzene	5	UG/L	8.5	4.9	6.6	6.7	11	10	8.6
Styrene	5	UG/L	6.2 U	2.5 U					
T-Butylbenzene	5	UG/L	5 J	3	7.3	5.7	8.6	8.4	7.6
Tert-Butyl Methyl Ether	10	UG/L	6.2 U	2.5 U					
Tetrachloroethylene (PCE)	5	UG/L	1.2 U	0.5 U					
Toluene	5	UG/L	6.2 U	2.5 U					
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	1.2 U	0.5 U					
Trans-1,2-Dichloroethene	5	UG/L	6.2 U	2.5 U					
Trans-1,3-Dichloropropene		UG/L	1.2 U	0.5 U					
Trichloroethylene (TCE)	5	UG/L	1.2 U	0.5 U					
Trichlorofluoromethane	5	UG/L	6.2 U	2.5 U					
Vinyl Chloride	2	UG/L	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	12 J	1.8 J	1.6 J	1.9 J	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs



Vernon 4540 Realty	. LLC-Former Paragon Paint Var	rnish Co., 46th Ave Vernon Blvd.	Long Island City, New York
	, 		

Sample Designation:		MW-5	MW-7	MW-7R	MW-7R	MW-7R	MW-10	MW-10	
	Sampl	e Date:	09/08/2016	06/22/2017	09/08/2016	03/30/2017	09/26/2017	09/08/2016	12/01/2016
Norm	nal or Field Du	plicate:	N	N	N	N	N	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	7.5 U	1.5 U	15 U	6 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	10 U	2 U	20 U	8 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	5 U	1 U	10 U	4 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	250 U	1200 U	250 U	2500 U	1000 U	250 U	250 U
2-Hexanone	50	UG/L	5 U	25 U	5 U	50 U	20 U	5 U	5 U
Acetone	50	UG/L	5 U	25 U	14	50 U	19 J	5 U	5 U
Benzene	1	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	10 U	2 U	20 U	8 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	8.6 J	5 U	50 U	20 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Chloromethane		UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Dibromochloromethane	50	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	25 U	5 U	50 U	20 U	5 U	5 U



Vernon 4540 Realty, LLC-Former	Paragon Paint Varnish Co., 46th Av	ve Vernon Blvd., Long Island C	itv. New York
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Sample Designation:			MW-5	MW-7	MW-7R	MW-7R	MW-7R	MW-10	MW-10
	Sample	e Date:	09/08/2016	06/22/2017	09/08/2016	03/30/2017	09/26/2017	09/08/2016	12/01/2016
Normal or Field Duplicate:			N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	19	11	14 J	19	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	25 U	5.5	50 U	20 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	25 U	5 U	50 U	20 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
N-Propylbenzene	5	UG/L	2.5 U	21	19	25	34	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Sec-Butylbenzene	5	UG/L	2.5 U	23	12	12 J	15	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
T-Butylbenzene	5	UG/L	2.5 U	16	6	7 J	9.1 J	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	1.6 J	0.5 U	5 U	2 U	0.5 U	0.5 U
Toluene	5	UG/L	2.5 U	12 U	0.99 J	25 U	10 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	2.5 U	0.5 U	5 U	2 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	5 U	1 U	10 U	4 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	12 U	2.5 U	25 U	10 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs



Sample Designation:		MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	
Sample Date:		03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/21/2017	09/08/2016	12/01/2016	
Normal or Field Duplicate:		Ν	N	N	N	FD	N	N	
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U					
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U					
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U					
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U					
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U					
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U					
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	2.5 U					
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U					
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	4.5 J	5 U	5 U	5 U	5 U
Benzene	1	UG/L	0.5 U	0.64	0.68				
Bromochloromethane	5	UG/L	2.5 U	2.5 U					
Bromodichloromethane	50	UG/L	0.5 U	0.5 U					
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U					
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U					
Chlorobenzene	5	UG/L	2.5 U	2.5 U					
Chloroethane	5	UG/L	2.5 U	2.5 U					
Chloroform	7	UG/L	2.5 U	2.5 U					
Chloromethane		UG/L	2.5 U	2.5 U					
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U					
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U					
Dibromochloromethane	50	UG/L	0.5 U	0.5 U					
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U



Sample Designation:			MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11
	Sample	e Date:	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/21/2017	09/08/2016	12/01/2016
Normal or Field Duplicate:			N	N	N	N	FD	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U						
Ethylbenzene	5	UG/L	2.5 U						
Isopropylbenzene (Cumene)	5	UG/L	2.5 U						
m,p-Xylene	5	UG/L	2.5 U						
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U						
N-Propylbenzene	5	UG/L	2.5 U						
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U						
Sec-Butylbenzene	5	UG/L	2.5 U						
Styrene	5	UG/L	2.5 U						
T-Butylbenzene	5	UG/L	2.5 U	4.7	4.1				
Tert-Butyl Methyl Ether	10	UG/L	2.5 U						
Tetrachloroethylene (PCE)	5	UG/L	0.5 U						
Toluene	5	UG/L	2.5 U						
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U						
Trans-1,2-Dichloroethene	5	UG/L	2.5 U						
Trans-1,3-Dichloropropene		UG/L	0.5 U						
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U						
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U						

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available

Bold data indicates that parameter was detected above the NYSDEC AWQSGVs


Sample Designation:		MW-11	MW-11	MW-11	MW-11	MW-11	MW-19	MW-19	
Sample Date:		03/30/2017	03/30/2017	06/22/2017	09/26/2017	12/21/2017	09/08/2016	06/22/2017	
Norr	nal or Field Du	plicate:	N	FD	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	6.2 U					
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	1.2 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	6.2 U					
1,1,2-Trichloroethane	1	UG/L	1.5 U	3.8 U					
1,1-Dichloroethane	5	UG/L	2.5 U	6.2 U					
1,1-Dichloroethene	5	UG/L	0.5 U	1.2 U					
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	6.2 U					
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	6.2 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	6.2 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	5 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	6.2 U					
1,2-Dichloroethane	0.6	UG/L	0.5 U	1.2 U					
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	7	6.2 U				
1,3-Dichlorobenzene	3	UG/L	2.5 U	6.2 U					
1,4-Dichlorobenzene	3	UG/L	2.5 U	6.2 U					
1,4-Dioxane (P-Dioxane)		UG/L	250 U	620 U					
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	12 U
Acetone	50	UG/L	2.2 J	1.9 J	1.7 J	4.1 J	5 U	5.6	8.8 J
Benzene	1	UG/L	1	1	0.55	0.5 U	0.5 U	0.46 J	1.2 U
Bromochloromethane	5	UG/L	2.5 U	6.2 U					
Bromodichloromethane	50	UG/L	0.5 U	1.2 U					
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	5 U
Bromomethane	5	UG/L	2.5 U	6.2 U					
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	12 U
Carbon Tetrachloride	5	UG/L	0.5 U	1.2 U					
Chlorobenzene	5	UG/L	2.5 U	6.2 U					
Chloroethane	5	UG/L	2.5 U	6.2 U					
Chloroform	7	UG/L	2.5 U	6.2 U					
Chloromethane		UG/L	2.5 U	6.2 U					
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	6.2 U					
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	1.2 U					
Dibromochloromethane	50	UG/L	0.5 U	1.2 U					
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	12 U



	Sample Desig	nation:	MW-11	MW-11	MW-11	MW-11	MW-11	MW-19	MW-19
	Sample	e Date:	03/30/2017	03/30/2017	06/22/2017	09/26/2017	12/21/2017	09/08/2016	06/22/2017
Norm	al or Field Du	plicate:	N	FD	N	N	Ν	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	6.2 U					
Ethylbenzene	5	UG/L	2.5 U	3.4 J					
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	25	23				
m,p-Xylene	5	UG/L	2.5 U	6.2 U					
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	5 U	5 U	5	5.4 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	12 U
Methylene Chloride	5	UG/L	2.5 U	6.2 U					
N-Propylbenzene	5	UG/L	2.5 U	33	36				
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	6.2 U					
Sec-Butylbenzene	5	UG/L	2.5 U	23	14				
Styrene	5	UG/L	2.5 U	6.2 U					
T-Butylbenzene	5	UG/L	4.4	4.5	4	5.1	3.9	13	8.6
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	6.2 U					
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	1.2 U					
Toluene	5	UG/L	2.5 U	6.2 U					
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	1.2 U					
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	6.2 U					
Trans-1,3-Dichloropropene		UG/L	0.5 U	1.2 U					
Trichloroethylene (TCE)	5	UG/L	0.5 U	1.2 U					
Trichlorofluoromethane	5	UG/L	2.5 U	6.2 U					
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
Xylenes	5	UG/L	2.5 U	6.2 U					

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-19	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	
	Sampl	e Date:	12/21/2017	09/08/2016	09/08/2016	12/01/2016	03/30/2017	06/22/2017	09/26/2017
Nor	mal or Field Du	plicate:	N	N	FD	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	2.5 U	0.5 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	7.5 U	1.5 U					
1,1-Dichloroethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	2.5 U	0.5 U					
1,2,3-Trichlorobenzene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	10 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	2.5 U	0.5 U					
1,2-Dichloropropane	1	UG/L	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	14	2.5 U					
1,3-Dichlorobenzene	3	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	1200 U	250 U	250 U	250 U	250 U	250 U	250 U
2-Hexanone	50	UG/L	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	21 J	5 U	5 U	5 U	5 U	5 U	3.8 J
Benzene	1	UG/L	2.5 U	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.5 U
Bromochloromethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	2.5 U	0.5 U					
Bromoform	50	UG/L	10 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	2.5 U	0.5 U					
Chlorobenzene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	2.5 U	0.5 U					
Dibromochloromethane	50	UG/L	2.5 U	0.5 U					
Dichlorodifluoromethane	5	UG/L	25 U	5 U	5 U	5 U	5 U	5 U	5 U



Vernon 4540 Realty, LLC-For	mer Paragon Paint Var	nish Co., 46th Ave Verno	on Blvd., Long Island	I City, New York
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	Sample Desig	nation:	MW-19	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
	Sample	e Date:	12/21/2017	09/08/2016	09/08/2016	12/01/2016	03/30/2017	06/22/2017	09/26/2017
Norm	al or Field Du	olicate:	Ν	N	FD	N	Ν	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L	5.3 J	2.5 U					
Isopropylbenzene (Cumene)	5	UG/L	63	2.5 U					
m,p-Xylene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	UG/L	120	2.5 U					
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	UG/L	41	2.5 U					
Styrene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	UG/L	14	2.5 U					
Tert-Butyl Methyl Ether	10	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	2.5 U	0.5 U	0.5 U	0.46 J	0.5 U	0.35 J	0.5 U
Toluene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	2.5 U	0.5 U					
Trans-1,2-Dichloroethene	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	2.5 U	0.5 U					
Trichloroethylene (TCE)	5	UG/L	2.5 U	0.5 U					
Trichlorofluoromethane	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	12 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

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U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-21	MW-33	MW-33	MW-33	MW-33	MW-33	MW-34	
Sample Date:		12/21/2017	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	09/08/2016	
Normal or Field Duplicate:		Ν	Ν	N	N	N	Ν	Ν	
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	3 U	1.5 U	1.5 U	3.8 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	4 U	2 U	2 U	5 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	2 U	1 U	1 U	2.5 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	3	5 U	2.5 U	2.5 U	6.2 U	1.3 J
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U	500 U	250 U	250 U	620 U	250 U
2-Hexanone	50	UG/L	5 U	5 U	10 U	5 U	5 U	12 U	5 U
Acetone	50	UG/L	5 U	23	5.7 J	5 U	5.6	12 U	5 U
Benzene	1	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.23 J	1.2 U	0.42 J
Bromochloromethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	4 U	2 U	2 U	5 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	10 U	5 U	5 U	12 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Chloromethane		UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	10 U	5 U	5 U	12 U	5 U



	Sample Desig	nation:	MW-21	MW-33	MW-33	MW-33	MW-33	MW-33	MW-34
	Sampl	e Date:	12/21/2017	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	09/08/2016
Norm	al or Field Du	plicate:	N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Ethylbenzene	5	UG/L	2.5 U	0.76 J	2.3 J	2.5 U	1.3 J	1.9 J	2.5 U
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	1.3 J	4.2 J	0.87 J	4.2	6 J	30
m,p-Xylene	5	UG/L	2.5 U	1.1 J	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	3.2 J	9.9 J	5 U	5 U	12 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	10 U	5 U	5 U	12 U	5 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
N-Propylbenzene	5	UG/L	2.5 U	2.2 J	8.2	1.5 J	8.2	12	39
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	1.5 J	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Sec-Butylbenzene	5	UG/L	2.5 U	2.6	4.6 J	1.4 J	5.2	7.5	16
Styrene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
T-Butylbenzene	5	UG/L	2.5 U	1.8 J	2.3 J	0.89 J	2.3 J	2.8 J	7
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Toluene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	0.5 U	1 U	0.5 U	1.2	1.2 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	0.5 U	0.5 U	1 U	0.5 U	1.2	1.2 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1.2 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	5 U	2.5 U	2.5 U	6.2 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	2 U	1 U	1 U	2.5 U	1 U
Xylenes	5	UG/L	2.5 U	2.6 J	5 U	2.5 U	2.5 U	6.2 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-34	MW-34	MW-34	MW-37	MW-37	MW-37	MW-38	
	Sampl	e Date:	12/01/2016	03/30/2017	06/22/2017	09/08/2016	12/01/2016	03/30/2017	09/08/2016
Nor	mal or Field Du	plicate:	Ν	N	N	N	Ν	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U	7.5 U	7.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	0.74 J	12 U	12 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	10 U	10 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	5 U	5 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	0.98 J	0.94 J	0.86 J	2.5 U	3.6 J	12 U	2.5 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U	250 U	250 U	1200 U	1200 U	250 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	25 U	25 U	5 U
Acetone	50	UG/L	5 U	2.4 J	2.2 J	3.4 J	39	25 U	3.5 J
Benzene	1	UG/L	0.26 J	0.5	0.23 J	0.19 J	2.5 U	2.5 U	0.27 J
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	10 U	10 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	1.4 J	5 U	25 U	25 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Chloromethane		UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	25 U	25 U	5 U



Sample Designation:			MW-34	MW-34	MW-34	MW-37	MW-37	MW-37	MW-38
	Sample	e Date:	12/01/2016	03/30/2017	06/22/2017	09/08/2016	12/01/2016	03/30/2017	09/08/2016
Norm	al or Field Du	plicate:	N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Isopropylbenzene (Cumene)	5	UG/L	22	18	23	14	28	34	15
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	3 J	5 U	7.4	25 U	25 U	6.8
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	1.2 J	5 U	5 U	25 U	25 U	5 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
N-Propylbenzene	5	UG/L	33	25	32	20	50	68	16
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Sec-Butylbenzene	5	UG/L	15	13	14	5.1	21	30	5
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
T-Butylbenzene	5	UG/L	6.9	7.2	6.6	2.8	7.1 J	8.8 J	2.5
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	1.2 J	12 U	12 U	1 J
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	2.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	5 U	5 U	1 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	12 U	12 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-38	MW-38	MW-38	MW-38	MW-38	MW-40	MW-40	
	Sampl	e Date:	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016	03/30/2017
Nor	nal or Field Du	plicate:	Ν	Ν	N	N	Ν	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U						
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U						
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U						
1,1,2-Trichloroethane	1	UG/L	1.5 U						
1,1-Dichloroethane	5	UG/L	2.5 U						
1,1-Dichloroethene	5	UG/L	0.5 U						
1,2,3-Trichlorobenzene	5	UG/L	2.5 U						
1,2,4-Trichlorobenzene	5	UG/L	2.5 U						
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U						
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U						
1,2-Dichloroethane	0.6	UG/L	0.5 U						
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U						
1,3-Dichlorobenzene	3	UG/L	2.5 U						
1,4-Dichlorobenzene	3	UG/L	2.5 U						
1,4-Dioxane (P-Dioxane)		UG/L	250 U						
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	1.6 J	5 U	53	12	14	2 J	2.3 J
Benzene	1	UG/L	0.28 J	0.5 U	0.43 J	0.62	0.36 J	8.6	9.3
Bromochloromethane	5	UG/L	2.5 U						
Bromodichloromethane	50	UG/L	0.5 U						
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U						
Carbon Disulfide	60	UG/L	5 U	5 U	2.8 J	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U						
Chlorobenzene	5	UG/L	2.5 U						
Chloroethane	5	UG/L	2.5 U	2.5 U	1.2 J	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U						
Chloromethane		UG/L	2.5 U						
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U						
Cis-1,3-Dichloropropene	5	UG/L	0.5 U						
Dibromochloromethane	50	UG/L	0.5 U						
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U



	Sample Desig	nation:	MW-38	MW-38	MW-38	MW-38	MW-38	MW-40	MW-40
	Sample	e Date:	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016	03/30/2017
Norm	nal or Field Du	plicate:	N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U						
Ethylbenzene	5	UG/L	2.5 U						
Isopropylbenzene (Cumene)	5	UG/L	26	36	24	25	10	44	47
m,p-Xylene	5	UG/L	2.5 U	1 J	1 J				
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	16	5 U	18	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	1.7 J	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U						
N-Propylbenzene	5	UG/L	34	55	31	34	12	69	38
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	0.78 J	0.72 J				
Sec-Butylbenzene	5	UG/L	11	16	8.2	14	10	16	20
Styrene	5	UG/L	2.5 U						
T-Butylbenzene	5	UG/L	4.3	6.8	4.2	5.4	5.6	3.5	5.3
Tert-Butyl Methyl Ether	10	UG/L	2.5 U						
Tetrachloroethylene (PCE)	5	UG/L	0.5 U						
Toluene	5	UG/L	0.97 J	2.5 U	2.5 U	0.74 J	2.5 U	1.7 J	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U						
Trans-1,2-Dichloroethene	5	UG/L	2.5 U						
Trans-1,3-Dichloropropene		UG/L	0.5 U						
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.22 J	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U						
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	1.8 J	1.7 J				

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Vernon 4540 Realty, LLC-Former	Paragon Paint Varnish Co	., 46th Ave Vernon Blvd., Loi	ng Island City, New York
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Sample Designation:		MW-40	MW-40	MW-41	MW-41	MW-41	MW-41	MW-41	
Sample Date:		06/22/2017	12/21/2017	09/08/2016	12/01/2016	03/30/2017	06/22/2017	09/26/2017	
Normal or Field Duplicate:		N	N	N	N	N	N	N	
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U					
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U					
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U					
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U					
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U					
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,2-Dichloroethane	0.6	UG/L	1.2	0.34 J	0.5 U	0.5 U	0.5 U	0.74	0.48 J
1,2-Dichloropropane	1	UG/L	0.27 J	0.38 J	1 U	1 U	1 U	0.52 J	0.29 J
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	2.5 U					
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U					
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	260	3.1 J	5 U	5 U	5 U	96	10
Benzene	1	UG/L	5.8	8.4	0.26 J	0.5 U	0.62	0.43 J	0.62
Bromochloromethane	5	UG/L	2.5 U	2.5 U					
Bromodichloromethane	50	UG/L	0.5 U	0.5 U					
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U					
Carbon Disulfide	60	UG/L	4.6 J	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U					
Chlorobenzene	5	UG/L	2.5 U	2.5 U					
Chloroethane	5	UG/L	4.2	2.5 U	2.5 U	2.5 U	2.5 U	2.8	0.76 J
Chloroform	7	UG/L	2.5 U	2.5 U					
Chloromethane		UG/L	2.5 U	2.5 U					
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U					
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U					
Dibromochloromethane	50	UG/L	0.5 U	0.5 U					
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U



Sample Designation:			MW-40	MW-40	MW-41	MW-41	MW-41	MW-41	MW-41
	Sampl	e Date:	06/22/2017	12/21/2017	09/08/2016	12/01/2016	03/30/2017	06/22/2017	09/26/2017
Norm	al or Field Du	plicate:	N	N	N	N	N	Ν	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U						
Ethylbenzene	5	UG/L	2.5 U						
Isopropylbenzene (Cumene)	5	UG/L	40	32	1.3 J	0.73 J	2.5	1.1 J	1.4 J
m,p-Xylene	5	UG/L	1.1 J	0.8 J	2.5 U				
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	39	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	1.5 J	2.5 U	2.5 U	2.5 U	2.5 U	1.2 J	2.5 U
N-Propylbenzene	5	UG/L	64	6.8	1.7 J	0.8 J	3.1	1.3 J	1.5 J
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	0.79 J	2.5 U					
Sec-Butylbenzene	5	UG/L	19	15	2.3 J	1.1 J	3.9	1.7 J	2.2 J
Styrene	5	UG/L	2.5 U						
T-Butylbenzene	5	UG/L	4.2	4.5	1.2 J	0.78 J	2.4 J	1.3 J	2.1 J
Tert-Butyl Methyl Ether	10	UG/L	2.5 U						
Tetrachloroethylene (PCE)	5	UG/L	0.5 U						
Toluene	5	UG/L	0.72 J	2.5 U					
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U						
Trans-1,2-Dichloroethene	5	UG/L	2.5 U						
Trans-1,3-Dichloropropene		UG/L	0.5 U						
Trichloroethylene (TCE)	5	UG/L	0.5 U						
Trichlorofluoromethane	5	UG/L	2.5 U						
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	1.9 J	0.8 J	2.5 U				

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-41	MW-42	MW-42	MW-42	MW-42	MW-42	MW-43	
Sample Date:		12/21/2017	09/08/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016	
Normal or Field Duplicate:		Ν	N	N	N	N	N	Ν	
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U					
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U					
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U					
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U					
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U					
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,2-Dichloroethane	0.6	UG/L	0.51	0.5 U	0.5 U				
1,2-Dichloropropane	1	UG/L	0.23 J	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2.5 U	12					
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U					
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U					
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	19	5 U	5 U	5 U	2.5 J	5 U	7.4
Benzene	1	UG/L	1.2	0.5 U	0.5 U				
Bromochloromethane	5	UG/L	2.5 U	2.5 U					
Bromodichloromethane	50	UG/L	0.5 U	0.5 U					
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U					
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U					
Chlorobenzene	5	UG/L	2.5 U	2.5 U					
Chloroethane	5	UG/L	2.5 U	2.5 U					
Chloroform	7	UG/L	2.5 U	2.5 U					
Chloromethane		UG/L	2.5 U	2.5 U					
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U					
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U					
Dibromochloromethane	50	UG/L	0.5 U	0.5 U					
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U



Vernon 4540 Realty,	LLC-Former Paragon Pa	nt Varnish Co., 46th Ave	Vernon Blvd., Long Islan	d City, New York
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Sample Designation:			MW-41	MW-42	MW-42	MW-42	MW-42	MW-42	MW-43
Sample Date:			12/21/2017	09/08/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016
Norm	al or Field Du	olicate:	Ν	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U						
Ethylbenzene	5	UG/L	2.5 U						
Isopropylbenzene (Cumene)	5	UG/L	1.4 J	4.7	0.73 J	2.5 U	2.5 U	2.5 U	1.4 J
m,p-Xylene	5	UG/L	2.5 U	1.3 J					
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	4.4 J	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U						
N-Propylbenzene	5	UG/L	1 J	3.5	2.5 U	2.5 U	2.5 U	2.5 U	1.9 J
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	0.8 J					
Sec-Butylbenzene	5	UG/L	2.2 J	2.9	1.4 J	1.1 J	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U						
T-Butylbenzene	5	UG/L	1.8 J	1.2 J	1.7 J	1.2 J	1.2 J	1.2 J	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U						
Tetrachloroethylene (PCE)	5	UG/L	0.5 U						
Toluene	5	UG/L	2.5 U						
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U						
Trans-1,2-Dichloroethene	5	UG/L	2.5 U						
Trans-1,3-Dichloropropene		UG/L	0.5 U						
Trichloroethylene (TCE)	5	UG/L	0.5 U						
Trichlorofluoromethane	5	UG/L	2.5 U						
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	2.1 J					

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Sample Designation:		MW-43	MW-43	MW-43	MW-43	MW-44	MW-44	MW-44	
Sample Date:		03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016	03/30/2017	06/22/2017	
Normal or Field Duplicate:		Ν	Ν	N	Ν	N	Ν	N	
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	4 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	78	7.1	49	47	41	81	42
1,3-Dichlorobenzene	3	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	500 U	250 U					
2-Hexanone	50	UG/L	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	28	7	57	41	98	53	61
Benzene	1	UG/L	0.5 J	0.5 U	0.69	0.45 J	1	0.63	0.19 J
Bromochloromethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	4 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	10 U	5 U	1.3 J	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane		UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	10 U	5 U	5 U	5 U	5 U	5 U	5 U



	MW-43	MW-43	MW-43	MW-43	MW-44	MW-44	MW-44		
	03/30/2017	06/22/2017	09/26/2017	12/21/2017	12/01/2016	03/30/2017	06/22/2017		
Norm	al or Field Du	plicate:	Ν	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L	6.8	0.82 J	5.9	5.4	9.9	9.7	3.2
Isopropylbenzene (Cumene)	5	UG/L	13	1.9 J	12	12	6.8	13	5.8
m,p-Xylene	5	UG/L	15	1.7 J	18	12	24	30	9.5
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	10 U	5 U	9	6.5	12	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	UG/L	22	2.9	18	18	8.5	19	9.6
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	7.2	0.87 J	10	6.4	17	22	8.8
Sec-Butylbenzene	5	UG/L	5.8	0.83 J	4	4.9	1.8 J	6.2	3.9
Styrene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.1 J	2.5 U
T-Butylbenzene	5	UG/L	2.4 J	2.5 U	2.1 J	2 J	1.2 J	2.4 J	1.7 J
Tert-Butyl Methyl Ether	10	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J	0.5 U
Toluene	5	UG/L	5 U	2.5 U	1.3 J	0.95 J	3.8	3.6	0.99 J
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	22	2.6 J	28	18	41	52	18

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Vernon 4540 Realty, LLC-Fo	ormer Paragon Paint Varnisł	n Co 46th Ave Vernon Blvd	Long Island City, New York
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Sample Designation:		MW-44	MW-44	MW-45	MW-45	MW-45	MW-46	MW-46	
Sample Date:		09/26/2017	12/21/2017	03/30/2017	06/22/2017	06/22/2017	12/01/2016	03/30/2017	
Norr	nal or Field Du	plicate:	Ν	N	N	Ν	FD	N	Ν
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	3.8 U	7.5 U	7.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	5 U	10 U	10 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	2.5 U	5 U	5 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	57	48	230	150	180	2.5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
1,4-Dioxane (P-Dioxane)		UG/L	250 U	250 U	620 U	1200 U	1200 U	250 U	250 U
2-Hexanone	50	UG/L	5 U	5 U	12 U	25 U	25 U	5 U	5 U
Acetone	50	UG/L	11	56	32	45	31	4.2 J	5 U
Benzene	1	UG/L	0.37 J	0.36 J	0.78 J	2.5 U	2.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	5 U	10 U	10 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	12 U	25 U	25 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Chloromethane		UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	12 U	25 U	25 U	5 U	5 U



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	MW-44	MW-44	MW-45	MW-45	MW-45	MW-46	MW-46		
Sample Date:			09/26/2017	12/21/2017	03/30/2017	06/22/2017	06/22/2017	12/01/2016	03/30/2017
Norm	nal or Field Du	plicate:	Ν	N	N	N	FD	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Ethylbenzene	5	UG/L	6	4.4	39	22	22	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	UG/L	9.3	7.4	51	38	41	2.5 U	2.5 U
m,p-Xylene	5	UG/L	15	13	47	25	24	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	2.6 J	7.8	12 U	25 U	25 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	12 U	25 U	25 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
N-Propylbenzene	5	UG/L	15	11	88	59	63	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	13	10	7.4	5.4 J	6.4 J	2.5 U	2.5 U
Sec-Butylbenzene	5	UG/L	4.2	4.1	16	12	12	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
T-Butylbenzene	5	UG/L	1.9 J	1.8 J	4.8 J	3.9 J	4 J	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Toluene	5	UG/L	1.6 J	1.8 J	6.2 U	12 U	12 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene		UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	1.2 U	2.5 U	2.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	6.2 U	12 U	12 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	2.5 U	5 U	5 U	1 U	1 U
Xylenes	5	UG/L	28	23	54	30 J	30 J	2.5 U	2.5 U

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



	Sample Desig	nation:	MW-46	MW-46	MW-46	MW-47	MW-47	MW-47	MW-47
	Sample	e Date:	06/22/2017	09/26/2017	12/21/2017	12/01/2016	12/01/2016	03/30/2017	06/22/2017
Norr	nal or Field Du	plicate:	N	N	N	N	FD	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U	5 U					
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	1 U					
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U	5 U					
1,1,2-Trichloroethane	1	UG/L	1.5 U	3 U					
1,1-Dichloroethane	5	UG/L	2.5 U	5 U					
1,1-Dichloroethene	5	UG/L	0.5 U	1 U					
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	5 U					
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	5 U					
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	5 U					
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	4 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	5 U					
1,2-Dichloroethane	0.6	UG/L	0.5 U	1 U					
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	2 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	2 J	0.88 J	2.5 U	40	41	78	67
1,3-Dichlorobenzene	3	UG/L	2.5 U	5 U					
1,4-Dichlorobenzene	3	UG/L	2.5 U	5 U					
1,4-Dioxane (P-Dioxane)		UG/L	250 U	500 U					
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	1.1 J	5 U	10 U
Acetone	50	UG/L	4.2 J	2.7 J	4.8 J	110	110	39	27
Benzene	1	UG/L	0.5 U	0.5 U	0.5 U	0.98	1.1	0.66	0.42 J
Bromochloromethane	5	UG/L	2.5 U	5 U					
Bromodichloromethane	50	UG/L	0.5 U	1 U					
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	4 U
Bromomethane	5	UG/L	2.5 U	5 U					
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Carbon Tetrachloride	5	UG/L	0.5 U	1 U					
Chlorobenzene	5	UG/L	2.5 U	5 U					
Chloroethane	5	UG/L	2.5 U	5 U					
Chloroform	7	UG/L	2.5 U	5 U					
Chloromethane		UG/L	2.5 U	2.5 U	2.5 U	2.5 U	1.2 J	2.5 U	5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	5 U					
Cis-1,3-Dichloropropene	5	UG/L	0.5 U	1 U					
Dibromochloromethane	50	UG/L	0.5 U	1 U					
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	10 U



	Sample Desig	nation:	MW-46	MW-46	MW-46	MW-47	MW-47	MW-47	MW-47
	Sample	e Date:	06/22/2017	09/26/2017	12/21/2017	12/01/2016	12/01/2016	03/30/2017	06/22/2017
Norm	nal or Field Du	plicate:	N	N	N	N	FD	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U	5 U					
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	11	11	15	9.4
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	9.2	9.9	16	13
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	24	25	36	24
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	14	16	5 U	4.2 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	1.1 J	5 U	5 U	10 U
Methylene Chloride	5	UG/L	2.5 U	5 U					
N-Propylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	13	14	23	20
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	14	15	20	14
Sec-Butylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.1 J	2.2 J	4.6	4.2 J
Styrene	5	UG/L	2.5 U	1.1 J	5 U				
T-Butylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	0.95 J	0.99 J	2 J	1.7 J
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	5 U					
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	1 U					
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	3.8	4	2.9	2.2 J
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U	1 U					
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	5 U					
Trans-1,3-Dichloropropene		UG/L	0.5 U	1 U					
Trichloroethylene (TCE)	5	UG/L	0.5 U	1 U					
Trichlorofluoromethane	5	UG/L	2.5 U	5 U					
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	38	40	56	38

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Vernon 4540 Realty, LLC-Fo	ormer Paragon Paint Varnisł	n Co 46th Ave Vernon Blvd	Long Island City, New York
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	Sample Desig	nation:	MW-47	MW-47	MW-48	MW-48	MW-48	MW-48	MW-48
	Sampl	e Date:	09/26/2017	12/21/2017	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017
Nor	mal or Field Du	plicate:	N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
1,1,1-Trichloroethane	5	UG/L	2.5 U						
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U						
1,1,2-Trichloro-1,2,2-Trifluoroethane		UG/L	2.5 U						
1,1,2-Trichloroethane	1	UG/L	1.5 U						
1,1-Dichloroethane	5	UG/L	2.5 U						
1,1-Dichloroethene	5	UG/L	0.5 U						
1,2,3-Trichlorobenzene	5	UG/L	2.5 U						
1,2,4-Trichlorobenzene	5	UG/L	2.5 U						
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U						
1,2-Dibromoethane (Ethylene Dibromide)		UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U						
1,2-Dichloroethane	0.6	UG/L	0.5 U						
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	UG/L	49	65	2.2 J	0.92 J	2.8	2.5 U	2.5 U
1,3-Dichlorobenzene	3	UG/L	2.5 U						
1,4-Dichlorobenzene	3	UG/L	2.5 U						
1,4-Dioxane (P-Dioxane)		UG/L	250 U						
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	13	47	5 U	5 U	5 U	3.9 J	5 U
Benzene	1	UG/L	0.31 J	0.47 J	0.5 U				
Bromochloromethane	5	UG/L	2.5 U						
Bromodichloromethane	50	UG/L	0.5 U						
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U						
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U						
Chlorobenzene	5	UG/L	2.5 U						
Chloroethane	5	UG/L	2.5 U						
Chloroform	7	UG/L	2.5 U						
Chloromethane		UG/L	2.5 U						
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U						
Cis-1,3-Dichloropropene	5	UG/L	0.5 U						
Dibromochloromethane	50	UG/L	0.5 U						
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U



Vernon 4540 Realty, LLC-Former Para	gon Paint Varnish Co., 46th Ave	Vernon Blvd., Long Island (Citv. New York
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	Sample Desig	nation:	MW-47	MW-47	MW-48	MW-48	MW-48	MW-48	MW-48
	Sample	e Date:	09/26/2017	12/21/2017	12/01/2016	03/30/2017	06/22/2017	09/26/2017	12/21/2017
Norm	nal or Field Du	plicate:	N	N	N	N	N	N	N
	NYSDEC								
Parameter	AWQSGVs	Units							
Dichloroethylenes	5	UG/L	2.5 U						
Ethylbenzene	5	UG/L	5.2	7.6	2.5 U				
Isopropylbenzene (Cumene)	5	UG/L	9.1	11	4	2.6	1.9 J	1.5 J	1.2 J
m,p-Xylene	5	UG/L	13	19	2.5 U				
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	8	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5	UG/L	2.5 U						
N-Propylbenzene	5	UG/L	15	17	3.1	2.4 J	2.1 J	0.81 J	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	8.6	12	2.5 U				
Sec-Butylbenzene	5	UG/L	3.5	4.3	4.7	4.3	3	2.3 J	1.7 J
Styrene	5	UG/L	2.5 U						
T-Butylbenzene	5	UG/L	1.5 J	2 J	4.1	3.1	1.8 J	1.5 J	1.4 J
Tert-Butyl Methyl Ether	10	UG/L	2.5 U						
Tetrachloroethylene (PCE)	5	UG/L	0.5 U						
Toluene	5	UG/L	1.7 J	2.2 J	2.5 U				
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	UG/L	0.5 U						
Trans-1,2-Dichloroethene	5	UG/L	2.5 U						
Trans-1,3-Dichloropropene		UG/L	0.5 U						
Trichloroethylene (TCE)	5	UG/L	0.5 U						
Trichlorofluoromethane	5	UG/L	2.5 U						
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	22	31	2.5 U				

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

J - Estimated Value

U - Compound was analyzed for but not detected

FD - Duplicate

- - No NYSDEC AWQSGV available



Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX D

LNAPL Recovery System Monitoring Logs

LNAPL Recovery System Monitoring Log, Former Paragon Paint Varnish Factory, Long Island City, New York

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.71		
Recovery Well RW-2	Ν		7.34		
Recovery Well RW-3	Y	8.36	8.38	0.02	
Recovery Well RW-4	Y	8.65	8.66	0.01	Trace amount; cannot be recovered by system
Recovery Well RW-5	Ν		8.45		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum				0 Gallons	
Is the system operating within the acceptable conditions?	N/A				
If no, was the condition corrected and how?	System startup; prog	ram LNAPL reco	very system to pu	ull from RW-3 a	nd RW-4 only

Form Completed By:

LNAPL Recovery System Monitoring Log, Former Paragon Paint Varnish Factory - October 13, 2016, Long Island City, New York

Source of Reading	Value	Recovery	/ Well Gauging	g Data	Comments
Recovery Well Network -Presence of Product	Product Present?	DTW	DTP	FTP	
Recovery Well RW-1	Ν		6.71		
Recovery Well RW-2	Ν		7.34		
Recovery Well RW-3	Y	8.36	8.38	0.02	
Recovery Well RW-4	Y	8.65	8.66	0.01	Trace amount; cannot be recovered by system
Recovery Well RW-5	Ν		8.45		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			2.4	4 Gallons	
Is the system operating within the acceptable conditions	? Yes				
If no, was the condition corrected and how?	N/A				
Form Completed By:					

Jordanna Kendrot

LNAPL Recovery System Monitoring Log, Former Paragon Paint Varnish Factory - October 26, 2016, Long Island City, New York

Source of Reading	Value Unit			Comments	
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.84		
Recovery Well RW-2	Ν		7.4		
Recovery Well RW-3	Ν		8.04		No product present
Recovery Well RW-4	N		8.3		No product present
Recovery Well RW-5	Y	8.1	8.12	0.02	
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			2.	6 Gallons	
Is the system operating within the acceptable conditions?	Yes				
If no, was the condition corrected and how?	Modify system so no	longer removing	product from RW-3	8/RW-4; prog	am system to begin removal from
	RW-5				
Form Completed By:					

Source of Reading	Value	Value Unit			Comments		
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP			
Recovery Well RW-1	Ν		7.2				
Recovery Well RW-2	Ν		7.6				
Recovery Well RW-3	Ν		7.29				
Recovery Well RW-4	Ν		8.68				
Recovery Well RW-5	Ν		8.46				
Product Volume in Recovery Drum							
0-55 gallons in Recovery Drum			3	.1 Gallons			
0-55 gallons in Recovery Drum			3	.1 Gallons			

Is the system operating within the acceptable conditions? No; system breaker had been turned off

If no, was the condition corrected and how?

Turn on breaker to building and turn system back on; resume settings from 10/26/16

Form Completed By:

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.51		
Recovery Well RW-2	Ν		6.54		
Recovery Well RW-3	Ν		6.67		
Recovery Well RW-4	Ν		6.98		
Recovery Well RW-5	Y	6.74	6.75	0.01	Trace amount; cannot be recovered by system
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.	.1 Gallons	
Is the system operating within the acceptable conditions?	Yes				
If no, was the condition corrected and how?	N/A				
Form Completed By:					



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - January 19, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		6.63		
Recovery Well RW-2	N		7.38		
Recovery Well RW-3	N		7.87		
Recovery Well RW-4	N		8.20		
Recovery Well RW-5	Y	7.94	7.95	0.01	Trace amount; cannot be recovered by system
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.3	3 Gallons	
Is the system operating within the acceptable condition	n <u>Yes</u>				

If no, was the condition corrected and how?

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - February 14, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.65		
Recovery Well RW-2	N		7.29		
Recovery Well RW-3	Y		7.78		
Recovery Well RW-4	Y		7.84		
Recovery Well RW-5	N	7.64	7.65	0.01	Trace amount; cannot be recovered by system
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.3	3 Gallons	

Is the system operating within the acceptable condition

If no, was the condition corrected and how?

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - March 30, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		6.66		
Recovery Well RW-2	Ν		7.02		
Recovery Well RW-3	N		7.48		
Recovery Well RW-4	N		7.69		
Recovery Well RW-5	Y		7.50		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3	.3 Gallons	
Is the system operating within the acceptable condition	e Yes				
If no, was the condition corrected and how?	No product present	in recovery wells, to	urn off system unti	l reportable leve	els of product become
	present in the recov	ery system wells.			
Form Completed By:					

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - April 24, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.48		
Recovery Well RW-2	Ν		6.77		
Recovery Well RW-3	N		7.51		
Recovery Well RW-4	N		7.82		
Recovery Well RW-5	N		7.59		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			:	3.3 Gallons	
Is the system operating within the acceptable conditions? If no, was the condition corrected and how?	N/A				1

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - May 25, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.05		
Recovery Well RW-2	Ν		6.39		
Recovery Well RW-3	Ν		6.82		
Recovery Well RW-4	Ν		7.24		
Recovery Well RW-5	Ν		7.01		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3	.3 Gallons	
Is the system operating within the acceptable condition	s? <u>N/A</u>				и
If no, was the condition corrected and how?					

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - June 22, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		6.29		
Recovery Well RW-2	N		6.79		
Recovery Well RW-3	Ν		6.92		
Recovery Well RW-4	Ν		7.70		
Recovery Well RW-5	Ν		6.98		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.:	3 Gallons	
Is the system operating within the acceptable conditions?	N/A				
If no, was the condition corrected and how?					
LNAPL Recovery system has been shut off since March 30.	2017. Operation and	maintenance activ	ities will resume up	on presence c	f LNAPL in recoverv wells
	1				,

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - June 22, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - July 27, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value Unit			Comments	
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.24		
Recovery Well RW-2	Ν		6.52		
Recovery Well RW-3	Ν		7.01		
Recovery Well RW-4	N		7.31		
Recovery Well RW-5	Ν		7.10		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.	3 Gallons	

Is the system operating within the acceptable conditions? N/A

If no, was the condition corrected and how?

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:


LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - August 29, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		6.07		
Recovery Well RW-2	N		6.38		
Recovery Well RW-3	N		6.80		
Recovery Well RW-4	N		7.30		
Recovery Well RW-5	N		7.10		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.	3 Gallons	
Is the system operating within the acceptable condition	ns? N/A				1
If no was the condition corrected and how?					

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - September 26, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		6.87		
Recovery Well RW-2	N		7.16		
Recovery Well RW-3	N		7.99		
Recovery Well RW-4	N		8.19		
Recovery Well RW-5	N		7.96		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3	.3 Gallons	
Is the system operating within the acceptable conditions	8? <u>N/A</u>				
If no, was the condition corrected and how?					

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:

LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - October 31, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.15		
Recovery Well RW-2	N		6.42		
Recovery Well RW-3	Ν		6.98		
Recovery Well RW-4	N		7.47		
Recovery Well RW-5	N		7.30		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.	3 Gallons	

Is the system operating within the acceptable conditions? N/A

If no, was the condition corrected and how?

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - November 14, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	Ν		6.35		
Recovery Well RW-2	Ν		6.60		
Recovery Well RW-3	Ν		7.12		
Recovery Well RW-4	Ν		7.50		
Recovery Well RW-5	Ν		7.34		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3.	.3 Gallons	

Is the system operating within the acceptable conditions? N/A

If no, was the condition corrected and how?

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - December 21, 2017 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP	
Recovery Well RW-1	N		7.22		
Recovery Well RW-2	Ν		7,78		
Recovery Well RW-3	Ν		8.51		
Recovery Well RW-4	Ν		8.70		
Recovery Well RW-5	Ν		8.52		
Product Volume in Recovery Drum					
0-55 gallons in Recovery Drum			3	.3 Gallons	
Is the system operating within the acceptable conditions?	N/A				
If no, was the condition corrected and how?					
LNAPL Recovery system has been shut off since March 30), 2017. Operation and	maintenance act	ivities will resume	upon presence	of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - January 4, 2018 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Source of Reading	Value		Unit		Comments		
Recovery Well Network -Presence of Product	Product Present?	DTP	DTW	FTP			
Recovery Well RW-1	N		7.30				
Recovery Well RW-2	N		7.83				
Recovery Well RW-3	N		8.60				
Recovery Well RW-4	N		8.82				
Recovery Well RW-5	N		8.61				
Product Volume in Recovery Drum							
0-55 gallons in Recovery Drum			3	3.3 Gallons			
Is the system operating within the acceptable conditions? N/A							
If no, was the condition corrected and how?							

LNAPL Recovery system has been shut off since March 30, 2017. Operation and maintenance activities will resume upon presence of LNAPL in recovery wells.

Form Completed By:



LNAPL Recovery System Monitoring Log Former Paragon Paint Varnish Corp - March 20, 2018 5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd. Long Island City, New York, NYSDEC Site No. C241108

Value		Unit		Comments
Product Present?	DTP	DTW	FTP	
Ν		6.10		
Ν		6.43		
Ν		6.98		
Ν		7.28		
Ν		7.07		
		3	3.3 Gallons	
	Product Present? N N N N N N	ValueProduct Present?DTPNNNNNN	Value Onit Product Present? DTP DTW N 6.10 N 6.43 N 6.98 N 7.28 N 7.07	Value OTP DTW FTP Product Present? DTP DTW FTP N 6.10 N 6.43 N 6.98 N 7.28 N 7.07 3.3 Gallons

If no, was the condition corrected and how?

LNAPL Recovery system has been shut off since March 30, 2017. The system was shut off effective January 12, 2018, however the system will remain in-place in the event

that future monitoring events detect LNAPL.

Form Completed By:



Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX E

NYSDEC Site Management Plan Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4995 www.dec.ny.gov

December 7, 2016

Mr. Brent Carrier 4540 Vernon Realty LLC 45 Carleon Ave Larchmont NY 10538

RE Paragon Paint and Varnish Corp.
 5-49 46th Avenue, Long Island City, NY
 Brownfield Cleanup Program, Site ID C241108, Queens County
 Site Management Plan

Dear Ms. Carrier:

The New York State Department of Environmental Conservation has reviewed the Site Management Plan (SMP) dated November 2016, for the referenced site, NYSDEC BCP Site No. C241108, NYSDEC BCA Index No. W2-1119-08-03, prepared by Remedial Engineering P.C. on behalf of 4540 Vernon Realty LLC.

This SMP was prepared as a requirement of the New York State Brownfield Cleanup Program. The SMP contains a comprehensive plan that provides detailed maintenance and monitoring discussions of the Institutional and Engineering Controls developed for the site, as well as provisions for the annual certification of these controls. The SMP is hereby approved.

The approved SMP must be placed in all publicly accessible repositories for the Site within five business days. A certification that this document has been placed, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

If you have any questions or comments, please feel free to contact me at (718) 482-4891.

Sincerely,

Sondra Martinkat Environmental Engineer



Page 2 of 2

- ec: Jane O'Connell, Karen Mintzer NYSDEC Justin Deming, Anthony Perretta – NYSDOH Michael Bogin – Sive Paget Riesel Omar Ramotar – Remedial Engineering, P.C.
- cc: Angela Krevey Anable Beach Inc Donald Rattner – 549 46th Ave LLC

Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX F

Response to November 17, 2017 NYDEC Comment Letter

REMEDIAL ENGINEERING, P.C. ENVIRONMENTAL ENGINEERS

209 SHAFTER STREET ISLANDIA, NEW YORK 11749 TEL: 631-232-2600 FAX: 631 232-9898

January 9, 2018

Ms. Sondra Martinkat Project Manager Division of Environmental Remediation New York State Department of Environmental Conservation Region Two 47-40 21st Street Long Island City, New York 11101

Re: Response to November 17, 2017 NYSDEC Comment Letter Paragon Paint and Varnish Corp., Long Island, New York, Site No. C241108

Dear Ms. Martinkat:

Roux Associates, Inc. (Roux Associates) and Remedial Engineering, P.C. (Remedial Engineering), on behalf of CSC 4540 Property Co. LLC, have generated this response to comments raised in the November 17, 2017 New York State Department of Environmental Conservation ("NYSDEC") comment letter (Attachment 1) and as a follow-up to what was discussed in the recent meeting that took place at the NYSDEC's offices in Long Island City, New York on December 1, 2017. The minutes for the meeting between the NYSDEC, Quadrum Global, Simon Baron Development and Roux Associates, Inc. are presented in Attachment 2. The specific NYSDEC's comments on the conclusions and recommendations presented in the Quarterly Inspection and Monitoring Report submitted to the NYSDEC on August 23, 2017 are presented below in italics followed by Roux Associates' responses.

Comment No. 1:

Since the results have not been satisfactory, some design parameters may need to be adjusted. Update the Conceptual Site Model as more information is collected. The geology, hydrogeology and contaminant mass may need to be understood better as well. In addition, a pilot study would provide information needed to better treat the residual grossly contamination soil and would help to determine optimal design/inputs.

Response:

The equivalent of a pilot study was in fact conducted from April 24th to 26th, 2017, as Regenesis PersulfOx was injected across 17 points covering areas that had either residual gross contamination in soil or NYSDEC Ambient Water Quality Standards and Guidance Values ("AWQSGVs") exceedances in groundwater. Proposed areas of treatment were also selected based on varying site conditions and lithology as well. Note, as the post-remediation design plan to treat all residual soil and groundwater contamination at the Site was being developed, Roux Associates elected to perform an Ms. Sondra Martinkat January 9, 2018 Page 2

injection event at several representative areas across the project Site in lieu of treating all areas at the same time. The injection design was described, in detail, in the Phase I In-Situ Chemical Oxidation ("ISCO") Design Plan (Design Plan) that was submitted to the NYSDEC on April 11, 2017 two weeks prior to performing the injection event that was conducted on April 25, 26 and 27, 2017. The submitted Design was based on a review of all historic and recent soil and groundwater data for the Site that was shared, reviewed and discussed with Regenesis. As such, there is no need to update the conceptual Site model as the design of the limited injection event, which Roux considers the equivalent of a pilot study, was based on all known conditions at the Site.

Based on Regenesis' evaluation of the data, design recommendations for the focused injection event performed in April were developed, reviewed and updated in consultation with Roux. The final design recommendations provided by Regenesis were previously provided to the NYSDEC, at their request, in an e-mail on May 4, 2017 (Attachment 3). It is important to note that conservative assumptions were made when estimating the quantity of material needed at each proposed injection location as well as the required spacing for each injection point. Also, prior experience with regards to performing ISCO at the Warehouse in 2015 was used to determine the maximum amount of chemicals that could be effectively injected into the ground at each proposed treatment area during the performance of the injection event discussed herein. It is important to note that "daylighting" of injected chemicals at the surface was specifically observed at several injection points in the Warehouse footprint during the prior injection event performed in 2015. These observations were used to determine the maximum, yet effective amount of chemicals that could be injected at each treatment location during the April 2017 event.

Following completion of the initial injection round and subsequent groundwater sampling event, the lab data showed that PersulfOx, the chemical Regenesis recommended for this application, fell short of reducing concentrations of the contaminants of concern ("COCs") than what was anticipated. It was concluded from this treatment event that any further ISCO treatment will not dramatically improve the groundwater quality and, in turn, not achieve treatment goals to below NYSDEC AWQSGVs.

In addition, Light Non-Aqueous Phase Liquid ("LNAPL") releases were not observed at any monitoring well (MW-40, MW-41, MW-42 and MW-44) or recovery well (RW-3) in close proximity to grossly contaminated areas in unsaturated soil (GC Area 5) and saturated soil (GC Areas 2, 3, 4, 8 and 9) that were specifically targeted for treatment. Accordingly, these observations do not support the need to perform ISCO treatment in all remaining grossly contaminated areas, which exhibit similar characteristics in terms of product type (i.e., mineral spirits) and lithology, that were not included in this firstphase of ISCO treatment (GC Areas 1, 6 and 7) conducted in April of 2017.

As discussed in greater detail in the August 23, 2017 inspection report and subsequently conveyed to the NYSDEC in person on December 1, 2017, Roux recommends further

Ms. Sondra Martinkat January 9, 2018 Page 3

treatment, as warranted, be determined <u>after</u> an established plan for Site redevelopment is generated.

Comment No. 2:

Conditions have changed since the SMP was approved, with LNAPL appearing in wells in both the warehouse and the factory. LNAPL has been found in MW-19 and MW-7 in the warehouse, and in MW-4 and MW-22 in the factory. Well construction logs for MW-4 and MW-22, which are in close proximity to MW-48, indicate the presence of residual soil contamination in the factory. Please clarify how this is proposed to be addressed. If not already part of the periodic gauging, please add monitoring wells MW-4, MW-7, MW-19, and MW-22 to the gauging events.

Response:

The presence of LNAPL at the Site has generally been consistent in both the warehouse and the factory following the approval of the SMP.

For clarification purposes, LNAPL was present at the warehouse in MW-7 dating back to March 15, 2015 prior to the performance of the remedial action and continued to be observed at this well during the post-remediation phase. Attachment 4 includes the gauging logs from the March 15, 2015 gauging event that was also submitted to the NYSDEC in a monthly progress report on April 10, 2015. While Roux understands that there has been a new detection of LNAPL at MW-19 in 2017 in the warehouse area, the most recent detections were minimal (<0.01 feet) during the September gauging event to no detection at all during the recent December 1, 2017 gauging event.

With regards to the wells in the factory, a new well (MW-48) was installed in the vicinity of MW-4 and MW-22 in the Paint Factory Building as part of the remedial action. This well was installed at the request of the NYSDEC to further understand the level of source area soil contamination, if any, in the vicinity of historical monitoring wells MW-4 and MW-22. While it is understood that the boring logs for adjacent wells MW-4 and MW-22 indicated the presence of localized soil contamination, the lack of LNAPL and AWQSGV exceedances at MW-48 proves those impacts are minor and more importantly, do not appear to be a continuing source of groundwater contamination.

MW-4, MW-7, MW-19, and MW-22 are already part of the periodic gauging events. In addition MW-4, MW-7, and MW-19 are part of the NYSDEC-approved sampling network. Moving forward, Roux suggests that the site monitoring wells within the monitoring network will be gauged and sampled on a quarterly basis as discussed during the December 1, 2017 meeting. Roux will follow the monitoring data more closely with regards to these wells moving forward and notify the NYSDEC of any significant changes. For the record, MW-4, MW-7, MW-19, and MW-22 did not have product detections during the recent December 1, 2017 sampling event.

Ms. Sondra Martinkat January 9, 2018 Page 4

Comment No. 3:

Other methods to treat grossly contaminated soils may be proposed. Grossly contaminated soil areas are considered source areas and must be addressed. Alternative approaches, such as but not limited to bioventing, bioremediation or air sparging, must be evaluated if it is determined that ISCO is not effective.

Response:

Roux believes that grossly contaminated soil at the Site is relatively stable and residual LNAPL is not mobile at the Site in its current condition. While we understand that there is a potential that bound LNAPL could potentially be released and become mobile as the subsurface is disturbed in the future as the Site is redeveloped, the plan for redevelopment has not been identified yet and may not be finalized for some time. In the meantime, the Site Owners are committed to addressing mobile LNAPL observed in the post-remediation monitoring phase as well as during any future remedial activities.

Furthermore, the Site Owner agrees to develop a plan to proactively address residual grossly contaminated areas that could be impacted by future Site redevelopment activities, where applicable, when those redevelopment activities are confirmed. These efforts could relate to removal, encapsulation or treatment. As such, alternative treatment options (i.e., bioventing, bioremediation, air sparging or stabilization) would be further evaluated as Site development plans are finalized. In the interim, subsurface gross contamination is stable and, as such, no further remediation is warranted at this time. The site will be continued to be monitored for LNAPL on a quarterly basis and observed LNAPL will be manually removed by bailing or use of absorbent socks or pads.

If you would like to discuss these responses or have any questions or concerns with regards to what has been conveyed herein, please don't hesitate to contact our office.

Sincerely,

REMEDIAL ENGINEERING, P.C.

a

Omar Ramotar, P.E. Principal Engineer

Attachments

cc: Jane O'Connell, NYSDEC Andrew Till, Simon Baron Development Robert Hendrickson, Quadrum Global Lawrence Schnapf, Esq., Schnapf LLC Joseph Duminuco, Roux Associates, Inc. Christian Hoelzli, Roux Associates, Inc.

NYSDEC Comment Letter Dated November 15, 2017

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4995 www.dec.ny.gov

November 15, 2017

Mr. Brent Carrier 4540 Vernon Realty LLC 45 Carleon Ave Larchmont NY 10538

Re: Paragon Paint and Varnish Company Queens County, BCP # C241108 Phase I In-Situ Chemical Oxidation (ISCO)

Dear Mr. Carrier:

The New York State Department of Environmental Conservation (the Department) has reviewed the Quarterly Inspection and Monitoring Report submitted on August 23, 2017 and the supplemental drawings and charts provided on October 6, 2017 by Roux Associates, Inc. (Roux) for the Paragon Paint and Varnish Site (the Site). This work was done in accordance with the approved Site Management Plan (SMP) dated December 2015 and the Phase I In-Situ Chemical Oxidation (ISCO) Design Plan dated April 11, 2017. The quarterly report presented conclusions and recommendations based upon the ISCO treatments performed on the site in April 2017. The Department offers the following comments:

- Since the results have not been satisfactory, some design parameters may need to be adjusted. Update the Conceptual Site Model as more information is collected. The geology, hydrogeology and contaminant mass may need to be understood better as well. In addition, a pilot study would provide information needed to better treat the residual grossly contamination soil and would help to determine optimal design/inputs.
- Conditions have changed since the SMP was approved, with LNAPL appearing in wells in both the warehouse and the factory. LNAPL has been found in MW-19 and MW-7 in the warehouse, and in MW-4 and MW-22 in the factory. Well construction logs for MW-4 and MW-22, which are in close proximity to MW-48, indicate the presence of residual soil contamination in the factory. Please clarify how this is proposed to be addressed. If not already part of the periodic gauging, please add monitoring wells MW-4, MW-7, MW-19, and MW-22 to the gauging events.
- Other methods to treat grossly contaminated soils may be proposed. Grossly contaminated soil areas are considered source areas and must be addressed.



Department of Environmental Conservation Page 2 of 2

Alternative approaches, such as but not limited to bioventing, bioremediation or air sparging, must be evaluated if it is determined that ISCO is not effective.

In sum, a more robust application of ISCO may be necessary since results have not been positive, or another method to remediate the residual contamination should be proposed.

Please provide a written response to this letter within 30 days. If you have any questions or would like to schedule a meeting to discuss this letter, please contact me at (718) 482-4891 or <u>sondra.martinkat@dec.ny.gov</u>.

Sincerely,

Sondra Martinkat Project Manager

- ec: Jane O'Connell, Gerard Burke, Karen Mintzer NYSDEC Matthew Baron – CSC Realty LLC Omar Ramotar – Roux Associates/Remedial Engineering PC Michael Bogin – Sive Paget & Riesel
- cc: Angela Krevey Anabel Beach, Inc. Donald Rattner – 549 46th Ave LLC

Minutes from December 1, 2017 Meeting with the NYSDEC

TO:	Jane O'Connell – NYSDEC	
	Sondra Martinkat – NYSDEC	

- **FROM:** Omar Ramotar, P.E., Remedial Engineering, P.C.
 - CC: Robert Hendrickson, Quadrum Global Jared White – Quadrum Global Andrew Till – Simon Baron Development Joseph Duminuco – Roux Associates, Inc. Christian Hoelzli – Roux Associates, Inc
- **DATE:** December 8, 2017
 - **RE:** Minutes from December 1, 2017 NYSDEC Meeting NYSDEC Site No. C241108, Long Island City, New York

1. Attendance:

- a. Jane O'Connell, NYSDEC
- b. Sondra Martinkat, NYSDEC
- c. Robert Hendrickson, Quadrum Global
- d. Jared White, Quadrum Global
- e. Andrew Till, Simon Baron Development
- f. Joseph Duminuco, Roux Associates, Inc.
- g. Omar Ramotar, P.E., Remedial Engineering, P.C.

2. Key Points Discussed:

- a. <u>Ownership</u>: Representatives of ownership (Quadrum Global ["Quadrum"] and Simon Baron Development ["Simon Baron"]) gave a brief background on their involvement at NYSDEC Site No. C241108 ("the Site"). They specifically noted that they are the majority owners of the Site. They also highlighted their involvement on the project over the past year since the Site Certificate of Completion ("COC") was issued and committed to complying with NYSDEC requirements in the post-remediation phase as Site redevelopment plans are finalized in the future and eventually implemented. Ownership conveyed that Brent Carrier is still a silent, minority owner on the project. Moving forward, the NYSDEC suggested that the majority owners file a request to update the project contact list currently on file with the NYSDEC for the project to clarify and make clear who should also be contacted on this project moving forward whenever any future correspondence is issued by the NYSDEC. The NYSDEC also provided the following information regarding other owners cited on the COC:
 - i. Angela Krevey Anable Beach, Inc.
 375 South End Avenue, Apartment 6S New York, New York 10280

- ii. Donald Rattner
 549 46th Avenue LLC
 116 Ferncliff Road
 Cos Cob, Connecticut 06807
- b. <u>**Ownership's Counsel</u>**: Michael S. Bogin, Esq. with Sive, Paget and Riesel is no longer the attorney of record of the project. Larry Schnapf, Esq. with Schnapf LLC is now the attorney of record.</u>
- c. <u>NYSDEC November 15, 2017 Letter</u>: Roux Associates, Inc. (Roux) briefly reviewed what was requested by the NYSDEC in its' November 15, 2017 Letter that was sent in response to what was conveyed in Roux's Quarterly Inspection and Monitoring Report dated August 23, 2017 ("2nd Quarterly Report for 2017"). Roux committed to providing a response to the issues and concerns raised as requested.
- d. <u>Redevelopment Plan Issues</u>: The Ownership team conveyed there has been a variety, but related issues with regards to finalizing Site redevelopment plans for the project Site. These issues are primarily related to complying with and addressing requirements of the New York City Board of Standards and Appeals ("BSA"), City Planning and Uniform Land Use Review Procedures ("ULURP"). As such, a plan for redeveloping the site has not been finalized and is not expected to be developed in the short-term.
- e. <u>Effectiveness of ISCO</u>: Roux reiterated its position that ISCO does not appear to be effective at treating residual groundwater or gross contamination soil areas as originally presented in the 2nd Quarterly Report for 2017. Roux will present its rationale in greater detail within the next two weeks in response to the NYSDEC November 15, 2017 letter.
- f. <u>Additional Treatment Options</u>: Roux conveyed that it will not recommend further treatment, of any kind, until a confirmed overall plan for Site redevelopment is generated. The NYSDEC was generally in agreement with this recommendation based on current conditions and the understanding that there are no known subsurface disturbances planned to occur at the Site prior to performing any future redevelopment. Note, when there is an actual confirmed plan for redevelopment, options to address residual gross contamination areas, if and where applicable, will be identified.
- g. <u>Short-term Groundwater Monitoring Requirements</u>: Roux conveyed that it will initiate gauging site monitoring wells for Light Non-Aqueous Phase Liquid ("LNAPL") on a quarterly basis instead of a monthly basis in 2018.
- h. <u>Short-term Groundwater Sampling Requirements</u>: The NYSDEC conveyed that after the December 2017 event has been performed, Roux can plan on sampling in six months (June 2018) and potentially annually after that. However, the actual timing for the next sampling event would be discussed with the NYSDEC after the June 2018 sampling event has been performed.

i. Short-term Reporting Requirements:

- i. Roux will no longer submit monthly progress reports. Instead, quarterly progress reports will be submitted and coincide with the performance of gauging or sampling events performed at the Site.
- ii. The NYSDEC conveyed that formal groundwater monitoring reports will not be required. After a groundwater monitoring round is performed in the future, Roux can simply provide a tabular summary of groundwater data when generated. The respective results would then be discussed in greater detail in the follow-up annual Periodic Review Report ("PRR").
- iii. The NYSDEC conveyed that the first annual PRR is expected to be submitted during the second quarter of 2018.
- j. <u>Short-term Operation and Maintenance (O&M) Requirements</u>: Roux conveyed that the onsite LNAPL recovery system will be permanently shut down as no LNAPL has been recovered by this system in the past year. The system, however, is not anticipated to be decommissioned until the Site is redeveloped. It was noted that Roux anticipates that it will continue to manually recover LNAPL with bailers and oil absorbing socks/ pads on a quarterly basis.
- k. <u>COC Issues</u>: Ownership discussed concerns over the amended COC which lists 4540 Vernon Realty LLC and two other entities as certificate holders while CSC 4540 Property Co, LLC which incurred all of the site preparation costs was identified as the Owner of the Site but not a certificate holder. Thus, none of the named Certificate Holders nor ownership can claim the site preparation tax credit. After some discussion, Ms. Jane O'Connell discussed possible administrative actions with the Owner's counsel to address Owner's concerns, if possible.
- 1. **<u>NYSDEC Discussion with Owner's Counsel</u>**: The NYSDEC spoke with the Owner's counsel directly regarding the issue cited above.

m. Next Steps Were Generally Reviewed:

- i. Ms. Jane O'Connell, to the extent practical, will work with the Owner's counsel (Larry Schnapf, Esq.) and Andrew Gugliemi, NYSDEC counsel, to amend the COC so that CSC 4540 Property Co, LLC would be identified as a Certificate Holder. Time is of essence since the COC is dated December 2016 which means ownership would need to file an amended return to claim the site prep tax credit by the end of this month.
- ii. Roux will provide a formal response to the NYSDEC's November 15, 2017 letter discussing Roux's position on eliminating future ISCO treatments as well as other key issues of concern.
- iii. Roux to perform quarterly sampling and gauging round in December 2017.
- iv. Owners conveyed that they would like to meet with the NYSDEC again in June 2018 to provide another status update.

----- End of Minutes-----

Regenesis Design Recommendations

Omar Ramotar

From:	Jordanna Kendrot
Sent:	Thursday, May 04, 2017 1:06 PM
То:	Martinkat, Sondra (DEC); Omar Ramotar; O'Connell, Jane H (DEC)
Cc:	Andrew Till (atill@simonbaron.com); Robert Hendrickson
	(rhendrickson@quadrumglobal.com); mbogin@sprlaw.com; Joe Duminuco; Glenn
	Netuschil
Subject:	RE: Paragon RAWP Implementation (Site No. C241108): SMP Phase 1 In-Situ Chemical
-	Oxidation Design Plan
Attachments:	Area Surrounding MW-47.pdf; GC Area 2 & MW-44.pdf; GC Areas 4&5.pdf; GC Area
	3.pdf; Preexisting IPs in Basment (Only IP-17 to IP-19).pdf; GC Area 8.pdf; GC Area 9.pdf

Afternoon Sondra,

Please find attached the dosing calculations from Regenesis for the most recent treatment detailed in this Design Plan.

Please feel free to call or email if you have any concerns.

Thank you,

Jordanna Kendrot | Project Engineer | Roux Associates, Inc.

209 Shafter Street Islandia, New York 11749 Main: 631.232.2600 | Direct: 631.630.2356 | Mobile: 631.741.7142 Email: <u>jkendrot@rouxinc.com</u> | Website: <u>www.rouxinc.com</u>



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From: Martinkat, Sondra (DEC) [mailto:sondra.martinkat@dec.ny.gov]
Sent: Wednesday, April 26, 2017 3:39 PM
To: Omar Ramotar; O'Connell, Jane H (DEC)
Cc: Andrew Till (atill@simonbaron.com); Robert Hendrickson (rhendrickson@quadrumglobal.com); mbogin@sprlaw.com; Joe Duminuco; Jordanna Kendrot; Glenn Netuschil
Subject: RE: Paragon RAWP Implementation (Site No. C241108): SMP Phase 1 In-Situ Chemical Oxidation Design Plan

Please provide the dosing calculations from Regenesis for the treatment and other worksheets they provide.

Sondra Martinkat

Environmental Engineer 2, Environmental Remediation

New York State Department of Environmental Conservation

47-40 21st St, Long Island City, NY 11101 P: 718-482-4891 | F: 718-482-6358 | <u>sondra.martinkat@dec.ny.gov</u>



From: Omar Ramotar [mailto:oramotar@rouxinc.com]
Sent: Tuesday, April 11, 2017 3:26 PM
To: Martinkat, Sondra (DEC) <<u>sondra.martinkat@dec.ny.gov</u>>; O'Connell, Jane H (DEC) <<u>jane.oconnell@dec.ny.gov</u>>
Cc: Andrew Till (<u>atill@simonbaron.com</u>) <<u>atill@simonbaron.com</u>>; Robert Hendrickson
(<u>rhendrickson@quadrumglobal.com</u>) <<u>rhendrickson@quadrumglobal.com</u>>; <u>mbogin@sprlaw.com</u>; Joe Duminuco
<<u>jduminuco@rouxinc.com</u>>; Jordanna Kendrot <<u>jkendrot@rouxinc.com</u>>; Glenn Netuschil <<u>gnetuschil@rouxinc.com</u>>;
Subject: Paragon RAWP Implementation (Site No. C241108): SMP Phase 1 In-Situ Chemical Oxidation Design Plan

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Sondra and Jane,

Roux Associates, on behalf of Vernon 4540 Realty, LLC, has prepared the attached ISCO injection design plan to continue to address VOCs in groundwater and grossly contaminated soil following implementation of the RAWP at the Paragon Paint and Varnish Corporation property located at 5-43 to 5-49 46th Avenue and 45-38 to 45-40 Vernon Boulevard (Tax Block 26, Lot 4) in Long Island City, New York.

Implementation of the proposed Design Plan is anticipated to require five (5) work days, and will commence on April 24, 2017. Prior to field mobilization, Roux Associates will submit Form 7250-16 ("Inventory of Injection Wells") to the USEPA in accordance with the Code of Federal Regulations Title 40 Part 144 of the USEPA's Underground Injection Program.

If you have any questions or concerns on the planned injection event, please don't hesitate to call or e-mail.

Kind Regards, Omar

Omar Ramotar Principal Engineer P.E. - NY, AZ, NV

Omar Ramotar | Principal Engineer | Roux Associates, Inc. 209 Shafter Street, Islandia, NY 11749 Main: 631-232-2600 | Direct: 631-630-2339 | Cell: 631-553-9274 Email: oramotar@rouxinc.com | Website: www.rouxinc.com



Solving Complex Environmental Challenges for Clients Nationwide

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Project In	formation		RegenOx [®] Application Design Summary		
Paragon Pa	ain Varnish				
Long islar	nd city NY		Area 3		Field App. Instructions
Are	a 3		Application Method	Direct Push	
Prepar	ed For:		Spacing Within Rows (ft)	8	Add RegenOx Part A to water, mix until
Ro	ux		Spacing Between Rows (ft)	10	dissolved, then add Part B and mix until
Target Treatment Zone (TTZ) Info	Unit	Value	Injection Points (per app.)	3	dissolved.
Treatment Area	ft ²	200	Number of Applications	3	
Top Treat Depth	ft	8.0	Areal Extent (square ft)	200	Field Mixing Ratios
Bot Treat Depth	ft	13.0	Top Application Depth (ft bgs)	8	Water per Pt per App (gals)
Vertical Treatment Interval	ft	5.0	Bottom Application Depth (ft bgs)	13	40
Treatment Zone Volume	ft ³	1,000	Total RegenOx to be Applied (lbs)	280	RegenOx Part A per Pt per App (lbs)
Treatment Zone Volume	су	37	RegenOx Part A (lbs)	160	18
Soil Type		silty sand	RegenOx Part B (lbs)	120	RegenOx Part B per Pt per App (lbs)
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	5%	13
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	364	Total Volume per Pt per App (gals)
Treatment Zone Pore Volume	gals	2,992	Total Solution Volume (gals)	385	43
Treatment Zone Effective Pore Volume	gals	1,496	Per Application Totals		
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	93	Volume per vertical ft (gals)
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	53	9
Soil Density	lb/ft ³	100	RegenOx Part B Per App (lbs)	40	
Soil Weight	lbs	1.0E+05	Water per App (gals)	121	
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	128	
Hydraulic Conductivity	cm/sec	3.53E-03			
Hydraulic Gradient	ft/ft	0.005	·	Technical Notes/Discus	sion
GW Velocity	ft/day	0.25			
GW Velocity	ft/yr	91			
Sources of Oxidant Demand	Unit	Value			
Sorbed Phase Contaminant Mass	lbs	1			
Dissolved Phase Contaminant Mass	lbs	0.3			
Total Contaminant Mass	lbs	1			
Stoichiometric RegenOx Oxidant Demand	lbs	24			
Engineering/Safety Factor		1.0			
Stoichiometric RegenOx Required	lbs	24			
Additional Soil Oxidant Demand (SOD)	g/kg	1.0			
RegenOx Required for Additional SOD	lbs	100	Prepared By:	1/0/1900	
Total RegenOx Oxidant Required	lbs	124	Date: 3	3/28/2017	
Applicatio	on Dosing			Assumptions/Qualificat	ions
			In generating this preliminary estimation	te, Regenesis relied upo	n professional judgment and site specific
RegenOx to be Applied	lbs	280	information provided by others. Using	g this information as inpu	ut, we performed calculations based upon
RegenOx Part A to be Applied	lbs	160	known chemical and geologic relations	hips to generate an estim	ate of the mass of product and subsurface
RegenOx Part B to be Applied	lbs	120	placement required to affect remediation	on of the site.	



Project In	formation		RegenOx [®] Application Design Summary		
Paragon Pa	ain Varnish				
Long islar	nd city NY		Area 4		Field App. Instructions
Are	ea 4		Application Method	Direct Push	
Prepar	ed For:		Spacing Within Rows (ft)	10	Add RegenOx Part A to water, mix until
Ro	ux		Spacing Between Rows (ft)	10	dissolved, then add Part B and mix until
Target Treatment Zone (TTZ) Info	Unit	Value	Injection Points (per app.)	3	dissolved.
Treatment Area	ft ²	250	Number of Applications	3	
Top Treat Depth	ft	5.0	Areal Extent (square ft)	250	Field Mixing Ratios
Bot Treat Depth	ft	13.0	Top Application Depth (ft bgs)	5	Water per Pt per App (gals)
Vertical Treatment Interval	ft	8.0	Bottom Application Depth (ft bgs)	13	71
Treatment Zone Volume	ft ³	2,000	Total RegenOx to be Applied (lbs)	440	RegenOx Part A per Pt per App (lbs)
Treatment Zone Volume	су	74	RegenOx Part A (lbs)	280	31
Soil Type		silty sand	RegenOx Part B (lbs)	160	RegenOx Part B per Pt per App (lbs)
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	5%	18
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	638	Total Volume per Pt per App (gals)
Treatment Zone Pore Volume	gals	5,984	Total Solution Volume (gals)	668	74
Treatment Zone Effective Pore Volume	gals	2,992	Per Application Totals		
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	147	Volume per vertical ft (gals)
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	93	9
Soil Density	lb/ft ³	100	RegenOx Part B Per App (lbs)	53	
Soil Weight	lbs	2.0E+05	Water per App (gals)	213	
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	223	
Hydraulic Conductivity	cm/sec	3.53E-03			
Hydraulic Gradient	ft/ft	0.005		Technical Notes/Discuss	sion
GW Velocity	ft/day	0.25			
GW Velocity	ft/yr	91			
Sources of Oxidant Demand	Unit	Value			
Sorbed Phase Contaminant Mass	lbs	2			
Dissolved Phase Contaminant Mass	lbs	0.5			
Total Contaminant Mass	lbs	3			
Stoichiometric RegenOx Oxidant Demand	lbs	48			
Engineering/Safety Factor		1.0			
Stoichiometric RegenOx Required	lbs	48			
Additional Soil Oxidant Demand (SOD)	g/kg	1.0			
RegenOx Required for Additional SOD	lbs	200	Prepared By: 1	1/0/1900	
Total RegenOx Oxidant Required	lbs	248	Date: 3	3/28/2017	
Applicatio	on Dosing			Assumptions/Qualification	ions
			In generating this preliminary estimation	te, Regenesis relied upor	n professional judgment and site specific
RegenOx to be Applied	lbs	440	information provided by others. Using	g this information as inpu	it, we performed calculations based upon
RegenOx Part A to be Applied	lbs	280	known chemical and geologic relations	hips to generate an estimation	ate of the mass of product and subsurface
RegenOx Part B to be Applied	lbs	160	placement required to affect remediation	on of the site.	



Project In	formation		RegenO	yn Summary	
Paragon Pa	ain Varnish				
Long islar	nd city NY		Area 7	Field App. Instructions	
Are	ea 7		Application Method	Application Method Direct Push	
Prepar	ed For:		Spacing Within Rows (ft)	12	Add RegenOx Part A to water, mix until
Rc	Jux		Spacing Between Rows (ft)	12	dissolved, then add Part B and mix until
Target Treatment Zone (TTZ) Info	Unit	Value	Injection Points (per app.)	1	dissolved.
Treatment Area	ft ²	100	Number of Applications	1	
Top Treat Depth	ft	17.0	Areal Extent (square ft)	100	Field Mixing Ratios
Bot Treat Depth	ft	20.0	Top Application Depth (ft bgs)	17	Water per Pt per App (gals)
Vertical Treatment Interval	ft	3.0	Bottom Application Depth (ft bgs)	20	75
Treatment Zone Volume	ft ³	300	Total RegenOx to be Applied (lbs)	80	RegenOx Part A per Pt per App (lbs)
Treatment Zone Volume	су	11	RegenOx Part A (lbs)	40	40
Soil Type		silty sand	RegenOx Part B (lbs)	40	RegenOx Part B per Pt per App (lbs)
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	6%	40
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	75	Total Volume per Pt per App (gals)
Treatment Zone Pore Volume	gals	898	Total Solution Volume (gals)	81	81
Treatment Zone Effective Pore Volume	gals	449	Per Application Totals		
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	80	Volume per vertical ft (gals)
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	40	27
Soil Density	lb/ft ³	100	RegenOx Part B Per App (lbs)	40	
Soil Weight	lbs	3.0E+04	Water per App (gals)	75	
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	81	
Hydraulic Conductivity	cm/sec	3.53E-03			
Hydraulic Gradient	ft/ft	0.005		Technical Notes/Discus	ssion
GW Velocity	ft/day	0.25			
GW Velocity	ft/yr	91			
Sources of Oxidant Demand	Unit	Value			
Sorbed Phase Contaminant Mass	lbs	0			
Dissolved Phase Contaminant Mass	lbs	0.1			
Total Contaminant Mass	lbs	0			
Stoichiometric RegenOx Oxidant Demand	lbs	7			
Engineering/Safety Factor		1.0			
Stoichiometric RegenOx Required	lbs	7			
Additional Soil Oxidant Demand (SOD)	g/kg	1.0			
RegenOx Required for Additional SOD	lbs	30	Prepared By: 1	1/0/1900	
Total RegenOx Oxidant Required	lbs	37	Date: 3	3/28/2017	
Application	on Dosing			Assumptions/Qualificat	tions
			In generating this preliminary estimat	te, Regenesis relied upo	n professional judgment and site specific
RegenOx to be Applied	lbs	80	information provided by others. Using	g this information as inp	ut, we performed calculations based upon
RegenOx Part A to be Applied	lbs	40	known chemical and geologic relations	hips to generate an estim	nate of the mass of product and subsurface
RegenOx Part B to be Applied	lbs	40	placement required to affect remediation	on of the site.	



Project Information			RegenOx [®] Application Design Summary			
Paragon P	ain Varnish					
Long island city NY			Area 11		Field App. Instructions	
Area 11 Prepared For: Roux			Application Method	Direct Push		
			Spacing Within Rows (ft)	12	Add RegenOx Part A to water, mix until	
			Spacing Between Rows (ft)	12	dissolved, then add Part B and mix until	
Target Treatment Zone (TTZ) Info Unit Value		Injection Points (per app.)	3	dissolved.		
Treatment Area	ft ²	370	Number of Applications	1		
Top Treat Depth	ft	8.0	Areal Extent (square ft)	370	Field Mixing Ratios	
Bot Treat Depth	ft	13.0	Top Application Depth (ft bgs)	8	Water per Pt per App (gals)	
Vertical Treatment Interval	ft	5.0	Bottom Application Depth (ft bgs)	13	150	
Treatment Zone Volume	ft ³	1,850	Total RegenOx to be Applied (lbs)	400	RegenOx Part A per Pt per App (lbs)	
Treatment Zone Volume	су	69	RegenOx Part A (lbs)	240	80	
Soil Type		silty sand	RegenOx Part B (lbs)	160	RegenOx Part B per Pt per App (lbs)	
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	6%	53	
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	451	Total Volume per Pt per App (gals)	
Treatment Zone Pore Volume	gals	5,536	Total Solution Volume (gals)	479	160	
Treatment Zone Effective Pore Volume	gals	2,768	Per Application Totals			
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	400	Volume per vertical ft (gals)	
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	240	32	
Soil Density	lb/ft ³	100	RegenOx Part B Per App (lbs)	160		
Soil Weight	lbs	1.8E+05	Water per App (gals)	451		
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	479		
Hydraulic Conductivity	cm/sec	3.53E-03				
Hydraulic Gradient	ft/ft	0.005	· · · · · · · · · · · · · · · · · · ·	Technical Notes/Discus	sion	
GW Velocity	ft/day	0.25				
GW Velocity	ft/yr	91				
Sources of Oxidant Demand	Unit	Value				
Sorbed Phase Contaminant Mass	lbs	2				
Dissolved Phase Contaminant Mass	lbs	0.5				
Total Contaminant Mass	lbs	3				
Stoichiometric RegenOx Oxidant Demand	lbs	45				
Engineering/Safety Factor		1.0				
Stoichiometric RegenOx Required	lbs	45				
Additional Soil Oxidant Demand (SOD)	g/kg	1.0				
RegenOx Required for Additional SOD	lbs	185	Prepared By: 2	1/0/1900		
Total RegenOx Oxidant Required	lbs	229	Date: 3	3/28/2017		
Application Dosing				Assumptions/Qualificat	ions	
			In generating this preliminary estimation	te, Regenesis relied upor	n professional judgment and site specific	
RegenOx to be Applied	lbs	400	information provided by others. Using	g this information as inpu	ut, we performed calculations based upon	
RegenOx Part A to be Applied	lbs	240	known chemical and geologic relations	hips to generate an estim	ate of the mass of product and subsurface	
RegenOx Part B to be Applied	lbs	160	placement required to affect remediation	on of the site.		
C PP						



Project Information			RegenOx [®] Application Design Summary			
Paragon Pa	ain Varnish					
Long island city NY			Area 12		Field App. Instructions	
Area 12 Prepared For: Roux			Application Method	Direct Push		
			Spacing Within Rows (ft)	12	Add RegenOx Part A to water, mix until	
			Spacing Between Rows (ft)	12	dissolved, then add Part B and mix until	
Target Treatment Zone (TTZ) Info	Target Treatment Zone (TTZ) Info Unit Value		Injection Points (per app.)	2	dissolved.	
Treatment Area	ft ²	320	Number of Applications	1		
Top Treat Depth	ft	5.0	Areal Extent (square ft)	320	Field Mixing Ratios	
Bot Treat Depth	ft	13.0	Top Application Depth (ft bgs)	5	Water per Pt per App (gals)	
Vertical Treatment Interval	ft	8.0	Bottom Application Depth (ft bgs)	13	300	
Treatment Zone Volume	ft ³	2,560	Total RegenOx to be Applied (lbs)	520	RegenOx Part A per Pt per App (lbs)	
Treatment Zone Volume	су	95	RegenOx Part A (lbs)	320	160	
Soil Type		silty sand	RegenOx Part B (lbs)	200	RegenOx Part B per Pt per App (lbs)	
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	6%	100	
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	601	Total Volume per Pt per App (gals)	
Treatment Zone Pore Volume	gals	7,660	Total Solution Volume (gals)	637	319	
Treatment Zone Effective Pore Volume	gals	3,830	Per Application Totals			
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	520	Volume per vertical ft (gals)	
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	320	40	
Soil Density	lb/ft ³	100	ReaenOx Part B Per App (lbs)	200		
Soil Weight	lbs	2.6E+05	Water per App (aals)	601		
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	637		
Hydraulic Conductivity	cm/sec	3.53E-03	, , , , , , , , , , , , , , , , , , , ,			
Hydraulic Gradient	ft/ft	0.005		Technical Notes/Discus	sion	
GW Velocity	ft/dav	0.25				
GW Velocity	ft/yr	91				
Sources of Oxidant Demand	Unit	Value				
Sorbed Phase Contaminant Mass	lbs	3				
Dissolved Phase Contaminant Mass	lbs	0.7				
Total Contaminant Mass	lbs	4				
Stoichiometric RegenOx Oxidant Demand	lbs	62				
Engineering/Safety Factor		1.0				
Stoichiometric RegenOx Required	lbs	62				
Additional Soil Oxidant Demand (SOD)	g/kg	1.0				
RegenOx Required for Additional SOD	lbs	256	Prepared By:	1/0/1900		
Total RegenOx Oxidant Required	lbs	318	Date: 3	3/28/2017		
Application Dosing				Assumptions/Qualificat	ions	
			In generating this preliminary estima	te, Regenesis relied upor	n professional judgment and site specific	
RegenOx to be Applied	lbs	520	information provided by others. Using	g this information as inpu	it, we performed calculations based upon	
RegenOx Part A to be Applied	lbs	320	known chemical and geologic relations	hips to generate an estim	ate of the mass of product and subsurface	
RegenOx Part B to be Applied	lbs	200	placement required to affect remediation	on of the site.		
hebenes rait b to be Applied	105	200				



Project Information			RegenOx [®] Application Design Summary			
Paragon P	ain Varnish					
Long island city NY			Area 6		Field App. Instructions	
Area 6 Prepared For: Roux			Application Method	Direct Push		
			Spacing Within Rows (ft)	8	Add RegenOx Part A to water, mix until	
			Spacing Between Rows (ft)	8	dissolved, then add Part B and mix until	
Target Treatment Zone (TTZ) Info Unit Value		Injection Points (per app.)	2	dissolved.		
Treatment Area	ft ²	100	Number of Applications	3		
Top Treat Depth	ft	5.0	Areal Extent (square ft)	100	Field Mixing Ratios	
Bot Treat Depth	ft	13.0	Top Application Depth (ft bgs)	5	Water per Pt per App (gals)	
Vertical Treatment Interval	ft	8.0	Bottom Application Depth (ft bgs)	13	38	
Treatment Zone Volume	ft ³	800	Total RegenOx to be Applied (lbs)	200	RegenOx Part A per Pt per App (lbs)	
Treatment Zone Volume	су	30	RegenOx Part A (lbs)	120	20	
Soil Type		silty sand	RegenOx Part B (lbs)	80	RegenOx Part B per Pt per App (lbs)	
Porosity	cm ³ /cm ³	0.40	RegenOx Part A Solution %	6%	13	
Effective Porosity	cm ³ /cm ³	0.20	Volume Water (gals)	225	Total Volume per Pt per App (gals)	
Treatment Zone Pore Volume	gals	2,394	Total Solution Volume (gals)	240	40	
Treatment Zone Effective Pore Volume	gals	1,197	Per Application Totals			
Fraction Organic Carbon (foc)	g/g	0.003	Total RegenOx per App (lbs)	67	Volume per vertical ft (gals)	
Soil Density	g/cm ³	1.6	RegenOx Part A Per App (lbs)	40	5	
Soil Density	lb/ft ³	100	RegenOx Part B Per App (lbs)	27		
Soil Weight	lbs	8.0E+04	Water per App (gals)	75		
Hydraulic Conductivity	ft/day	10.0	Injection Volume per App (gals)	80		
Hydraulic Conductivity	cm/sec	3.53E-03				
Hydraulic Gradient	ft/ft	0.005		Technical Notes/Discuss	ion	
GW Velocity	ft/day	0.25				
GW Velocity	ft/yr	91				
Sources of Oxidant Demand	Unit	Value				
Sorbed Phase Contaminant Mass	lbs	1				
Dissolved Phase Contaminant Mass	lbs	0.2				
Total Contaminant Mass	lbs	1				
Stoichiometric RegenOx Oxidant Demand	lbs	19				
Engineering/Safety Factor		1.0				
Stoichiometric RegenOx Required	lbs	19				
Additional Soil Oxidant Demand (SOD)	g/kg	1.0				
RegenOx Required for Additional SOD	lbs	80	Prepared By:	1/0/1900		
Total RegenOx Oxidant Required	lbs	99	Date:	3/28/2017		
Application Dosing				Assumptions/Qualification	ons	
			In generating this preliminary estimation	ate, Regenesis relied upon	professional judgment and site specific	
RegenOx to be Applied	lbs	200	information provided by others. Usin	g this information as input	t, we performed calculations based upon	
RegenOx Part A to be Applied	lbs	120	known chemical and geologic relations	ships to generate an estima	te of the mass of product and subsurface	
RegenOx Part B to be Applied	lbs	80	placement required to affect remediati	on of the site.		



Project Information			PersulfOx [®] Application Design Summary				
Long island city NY			Area 9	Field App. Instructions			
Area 9A			Application Method	Direct Push			
Prepared For: Roux			Spacing Within Rows (ft)	15			
			Spacing Between Rows (ft)	20			
Target Treatment Zone (TTZ) Info Unit Value			Injection Points (per app.)	3			
Treatment Area	ft ²	800	Number of Applications	Number of Applications			
Top Treat Depth	ft	0.0	Areal Extent (square ft)	800	Field Mixing Ratios		
Bot Treat Depth	ft	5.0	Top Application Depth (ft bgs)	0	Water per Pt per app (gals)		
Vertical Treatment Interval	ft	5.0	Bottom Application Depth (ft bgs)	5	75		
Treatment Zone Volume	ft ³	4,000	PersulfOx to be Applied (lbs)	331	PersulfOx per Pt per app (lbs)		
Treatment Zone Volume	су	148	PersulfOx Solution %	15%	110		
Soil Type		silty sand	Volume Water (gals)	224	Total Volume per Pt per app (gals)		
Porosity	cm ³ /cm ³	0.40	Total Volume (gals)	241	80		
Effective Porosity	cm ³ /cm ³	0.20	Per Application Totals				
Treatment Zone Pore Volume	gals	11.969	PersulfOx per app. (lbs)	PersulfOx per app. (lbs) 331			
Treatment Zone Effective Pore Volume	gals	5,984	Volume Water per app. (aals)	224	16		
Fraction Organic Carbon (foc)	g/g	0.003	Total Volume per app. (gals)				
Soil Density	g/cm ³	1.6					
Soil Density	lb/ft ³	100	Technical Notes /Discussion				
Soil Weight	lbr	100	i ecnnical Notes/Discussion				
Hydraulic Conductivity	ft/day	4.01+05					
Hydraulic Conductivity	cm/sec	3 53F-03					
Hydraulic Gradient	ft/ft	0.005					
GW Velocity	ft/day	0.25					
GW Velocity	ft/vr	91					
Sources of Oxidant Demand	Unit	Value					
Sorbed Phase Contaminant Mass	lbs	0					
Dissolved Phase Contaminant Mass	lbs	0.5					
Total Contaminant Mass	lbs	1					
Stoichiometric PersulfOx Demand	lbs	96					
Engineering/Safety Factor		1.0					
Stoichiometric PersulfOx Required	lbs	96					
Additional Soil Oxidant Demand	g/kg	2.0					
SOD PersulfOx Required	lbs	888	Prepared By: 1	/0/1900			
Total PersulfOx Required	lbs	983	Date: 4	/27/2017			
Application Dosing				Assumptions/Qualificat	tions		
			In generating this preliminary estimate,	, Regenesis relied upon professio	nal judgment and site specific information provided		
PersulfOx Required	lbs	331	by others. Using this information as inp to generate an estimate of the mass of p	but, we performed calculations bas product and subsurface placemen	sed upon known chemical and geologic relationships t required to affect remediation of the site.		

March 15, 2015 Gauging Logs

Table 1. LNAPL Recovery IRM Summary Table, Former Paragon Paint Varnish Corp5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd.Long Island City, New York, NYSDEC Site No. C241108

		Depth to	Depth to	Well				
		Product	Water	Diameter	PID	Product	Purged	Cumulative
Date	Well	(ft)	(ft)	(inch)	(ppm)	Thickness (ft)	(g)	(g)
3/5/2015	$MW-1R^{1}$	NG	NG	4	NM	NA	0	0
3/19/2015	MW-1R1	NG	NG	4	NM	NA	0	0
3/30/2015	MW-1R ¹	NG	NG	4	NM	NA	0	0
3/5/2015	MW-2R	ND	7.92	4	NM	0	0	0.66
3/19/2015	MW-2R	ND	7.23	4	1.2	0	0	0.66
3/30/2015	MW-2R	ND	6.88	4	0.6	0	0	0.66
3/5/2015	MW-3	6.91	7.03	2	NM	0.12	0.01	21.28
3/19/2015	MW-3	6.54	6.69	2	24.3	0.15	0.01	21.29
3/30/2015	MW-3	6.94	7.08	2	49.8	0.14	0.10	21.39
3/5/2015	MW-4	ND	9.70	2	NM	0	0	0
3/19/2015	MW-4	ND	9.39	2	0.0	0	0	0
3/30/2015	MW-4	ND	9.46	2	0.0	0	0	0
3/5/2015	MW-5	ND	5.48	2	NM	0	0	0
3/19/2015	MW-5	ND	5.48	2	0.0	0	0	0
3/30/2015	MW-5	ND	2.23	1	0.0	0	0 50	52.06
3/3/2015	MW-0	10.05	13.34	1	1NIM 20.8	2.09	0.50	52.90
3/19/2015	MW-6	9.77	13.42	1	20.8	3.21	0.50	53.40
3/5/2015	MW 6P	10.47	12.13	2	22.3 NM	1.66	0.50	20.60
3/19/2015	MW-6R	9.94	12.13	2	137	2.08	0.75	20.00
3/30/2015	MW-6R	9.64	11.82	2	39.9	2.18	0.50	21.60
3/5/2015	MW-7	2.99	3.28	1	NM	0.29	0.10	20.37
3/19/2015	MW-7	1.52	1.62	1	49.7	0.10	0.10	20.47
3/30/2015	MW-7	1.36	1.47	1	42.6	0.11	0.10	20.57
3/5/2015	MW-7R	ND	2.56	2	NM	0	0	0.14
3/19/2015	MW-7R	ND	1.15	2	1.3	0	0	0.14
3/30/2015	MW-7R	ND	0.83	2	57.4	0	0	0.14
3/5/2015	$MW-8^1$	NG	NG	2	NM	NA	0	1298.50
3/19/2015	MW-8 ¹	NG	NG	2	NM	NA	0	1298.50
3/30/2015	MW-8 ¹	NG	NG	2	NM	NA	0	1298.50
3/5/2015	MW-9	7.46	8.18	2	NM	0.72	0.25	60.35
3/19/2015	$MW-9^2$	NG	NG	NA	NM	NM	NA	60.35
3/30/2015	$MW-9^2$	NG	NG	NA	NM	NM	NA	60.35
3/5/2015	$MW-10^1$	NG	NG	2	NM	NA	0	0
3/19/2015	MW-10	ND	7.33	2	0.0	0	0	0
3/30/2015	MW-10	ND	7.20	2	0.0	0	0	0
3/5/2015	MW-11 ¹	NG	NG	2	NM	NA	0	0
3/19/2015	MW-11 ¹	NG	NG	2	NM	NA	0	0
3/30/2015	$MW-11^1$	NG	NG	2	NM	NA	0	0
3/5/2015	MW-12 ³	NG	NG	2	NM	NA	0	42.46
3/19/2015	MW-12	7.78	9.29	2	134	1.51	0.50	42.96
3/30/2015	MW-12	7.10	10.23	2	3.13	42.40	0.75	43.71
3/5/2015	MW-13	8.26	9.47	2	NM	1.21	0.50	156.99
3/19/2015	MW-13	8.99	13.22	2	112	4.23	1.25	158.24
3/30/2015	MW-13	7.48	8.57	2	42.6	1.09	0.25	158.49

Table 1. LNAPL Recovery IRM Summary Table, Former Paragon Paint Varnish Corp5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd.Long Island City, New York, NYSDEC Site No. C241108

		Depth to	Depth to	Well				~
Data	337 - 11	Product	Water	Diameter	PID	Product	Purged	Cumulative
Date	well	(It)	(II)	(inch)	(ppm)	Thickness (ft)	(g)	(g)
3/5/2015	MW-14	ND	9.95	2	NM	0	0	0
3/19/2015	MW-14	ND	9.09	2	0.2	0	0	0
3/30/2015	MW-14	ND	9.06	2	1.6	0	0	0
3/5/2015	MW-15	ND	9.80	2	NM	0	0	0
3/19/2015	MW-15	ND	9.00	2	0.3	0	0	0
3/30/2015	MW-15	ND	9.00	2	0.7	0	0	0
3/5/2015	MW-16 ¹	NG	NG	4	NM	NA	0	0
3/19/2015	$MW-16^{1}$	NG	NG	4	NM	NA	0	0
3/30/2015	MW-16 ¹	NG	NG	4	NM	NA	0	0
3/5/2015	MW-17 ⁴	7.08	7.12	4	NM	0.04	0.01	43.76
3/19/2015	MW-17 ⁴	6.70	6.72	4	61.6	0.02	0.01	43.77
3/30/2015	$MW-17^4$	6.46	6.48	4	78.2	0.02	0.01	43.78
3/5/2015	MW-18	ND	6.59	4	NM	0	0	0
3/19/2015	MW-18	ND	6.56	4	0.0	0	0	0
3/30/2015	MW-18	ND	6.51	4	0.0	0	0	0
3/5/2015	MW-19	2.36	2.37	2	NM	0.01	0.01	0.19
3/19/2015	MW-19	2.02	2.02	2	78.2	0	0.01	0.20
3/30/2015	MW-19	ND	1.60	2	94.3	0	0.00	0.20
3/5/2015	MW-20	ND	9.91	2	NM	0	0	0
3/19/2015	MW-20	ND	9.51	2	0.0	0	0	0
3/30/2015	MW-20	ND	9.59	2	0.0	0	0	0
3/5/2015	MW-21	ND	4.45	4	NM	0	0	0
3/19/2015	MW-21	ND	5.84	4	0.0	0	0	0
3/30/2015	MW-21	ND	5.76	4	0.0	0	0	0
3/5/2015	MW-22	ND	9.79	2	NM	0	0	0
3/19/2015	MW-22	ND	9.44	2	0.0	0	0	0
3/30/2015	MW-22	ND	9.52	2	0.0	0	0	0
3/5/2015	$MW-23^1$	NG	NG	4	NM	NA	0	368.00
3/19/2015	$MW-23^1$	NG	NG	4	NM	NA	0	368.00
3/30/2015	MW-23	5.89	7.90	4	168	2	4	372.00
3/5/2015	MW-24	ND	6.98	2	NM	0	0	0
3/19/2015	MW-24	ND	6.42	2	4.2	0	0	0
3/30/2015	MW-24	ND	6.10	2	0.0	0	0	0
3/5/2015	MW-25	ND	7.60	2	NM	0	0	0
3/19/2015	MW-25	ND	6.39	2	7.4	0	0	0
3/30/2015	MW-25	ND	6.71	2	2.1	0	0	0
3/5/2015	MW-27	ND	7.74	2	NM	0	0	0
3/19/2015	MW-27	ND	7.20	2	6.1	0	0	0
3/30/2015	MW-27	ND	7.13	2	0.6	0	0	0
Table 1.	LNAPL Recovery IRM Summary Table, Former Paragon Paint Varnish Corp							
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	5-43 to 5-49 46th Ave. and 45-38 to 45-40 Vernon Blvd.							
	Long Island City, New York, NYSDEC Site No. C241108							

Date	Well	Depth to Product	Depth to Water (ft)	Well Diameter (inch)	PID (ppm)	Product	Purged	Cumulative
2/5/2015	MW 29	(II)	7.20	(incir)	(ppm)		(g)	(g)
3/3/2015	MW-28	ND	7.39	2		0	0	0
3/19/2015	MW-28	ND	6 59	2	3.5	0	0	0
3/5/2015	MW_{-30}^2	NG	NG	4	NM	NA	NA	0
3/19/2015	$MW-30^2$	NG	NG	4	NM	NA	NA	0
2/20/2015	MW_{-30}^2	NG	NG	4	NIM	NIA	NT A	0
3/30/2013	1v1 vv - 50	NU	NU	4	INIVI	INA	INA	0
3/5/2015	MW-31 ⁻	NG	NG	4	NM	NA	NA	43.20
3/19/2015	MW-31 ²	NG	NG	4	NM	NA	NA	43.20
3/30/2015	$MW-31^2$	NG	NG	4	NM	NA	NA	43.20
3/5/2015	MW-32	ND	6.79	4	NM	0	0	0
3/19/2015	MW-32	ND	5.98	4	1.3	0	0	0
3/30/2015	MW-32	ND	5.91	4	1.6	0	0	0
3/5/2015	MW-33	8.04	8.16	4	NM	0.12	0.10	2.40
3/19/2015	MW-33	7.46	7.49	4	58.6	0.03	0.10	2.50
3/30/2015	MW-33	7.14	7.16	4	64.6	0.02	0.10	2.60
3/5/2015	MW-34	ND	7.56	4	NM	0	0	0
3/19/2015	MW-34	ND	6.86	4	129	0	0	0
3/30/2015	MW-34	ND	6.53	4	69.3	0	0	0
3/5/2015	MW-35 ¹	NG	NG	4	NM	NA	NA	0.10
3/19/2015	MW-35 ¹	NG	NG	4	NM	NA	NA	0.10
3/30/2015	MW-35 ¹	NG	NG	4	NM	NA	NA	0.10
3/5/2015	MW-36 ²	NG	NG	NA	NM	NA	NA	0
3/19/2015	MW-36 ²	NG	NG	NA	NM	NA	NA	0
3/30/2015	MW-36 ²	NG	NG	NA	NM	NA	NA	0
3/5/2015	MW-37	ND	2.23	2	NM	0	0	0
3/19/2015	MW-37	ND	1.14	2	45.8	0	0	0
3/30/2015	MW-37	ND	1.85	2	30.6	0	0	0
3/5/2015	MW-38	ND	2.90	2	NM	0	0	0
3/19/2015	MW-38	ND	1.71	2	23.4	0	0	0
3/30/2015	MW-38	ND	1.52	2	55.1	0	0	0
Notes:						Total:	2141.25	

PID - Photo ionization detector (well headspace reading)

ft - Feet

ppm - Parts per million

g - Gallons

ND - Not detected

NM - Not measured

NR - Not recorded

NA - Not applicable

1- Could not access well due to ongoing underground storage tank removal activities

2 - Monitoring well destroyed during underground storage tank removal activities

3 - Could not access well due to an accumulation of snow and ice

4 - Monitoring well MW-17 was observed to be damaged

Periodic Review Report Site No. C241108 Long Island City, NY

APPENDIX G

NYSDEC Response Letter to SMP Modifications

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4995 www.dec.ny.gov

January 12, 2018

Robert Hendrickson Quadrum Global 757 3rd Avenue New York NY 10017

Re: Paragon Paint and Varnish Company Queens County, BCP # C241108 Modifications to the Site Management Plan (SMP)

Dear Mr. Hendrickson:

On December 1, 2017, the New York State Department of Environmental Conservation (the Department) met with Quadrum Global and Roux Associates to review the project. As a follow-up to that discussion, Roux Associates provided an email on January 9, 2018 which included a summary of proposed changes regarding monitoring, sampling, operation, maintenance and reporting activities. These proposed changes constitute modifications to the Site Management Plan (SMP).

The following SMP modifications are approved:

- 1. All Site monitoring wells will be gauged for the presence of light non-aqueous phase liquid (LNAPL) on a quarterly basis in lieu of gauging select wells on a monthly basis. The first quarterly gauging event will occur in March 2018.
- 2. Monthly progress reports are no longer required. A quarterly report will be submitted that details the performance of gauging or sampling events performed at the Site.
- 3. The groundwater sampling frequency may be reduced to annual, with the next sampling event in June 2018.
- 4. A formal groundwater monitoring report will be replaced with a tabular summary of groundwater data and a short evaluation of conditions when data is generated. This may be applied to the recent groundwater sampling event performed at the Site in December 2017. The results should be discussed in greater detail in the subsequent Periodic Review Report (PRR). The first PRR for the Site is due April 15, 2018.



Page 2 of 2

5. Since no LNAPL has been recovered by the on-site system in the past year, the LNAPL recovery system may be shut down. The system should remain in-place in the event that future monitoring events identify recoverable LNAPL. The system may be decommissioned when the Site is redeveloped. LNAPL recovery will continue manually with bailers and/or oil absorbing socks/pads on a quarterly basis, as needed.

Within 30 days of the date of this letter, please submit revised sections of the SMP for the approvals listed above. Upon approval of these sections, a revised SMP must be submitted to the Department.

If you have any questions or would like to schedule a meeting to discuss this letter, please contact me at (718) 482-4891 or <u>sondra.martinkat@dec.ny.gov</u>.

Sincerely,

Sondra Martinkat Project Manager

- ec: Jane O'Connell, Gerard Burke, Karen Mintzer NYSDEC Anthony Perretta – NYSDOH Matthew Baron – CSC Realty LLC Omar Ramotar – Roux Associates/Remedial Engineering PC Larry Schnapf – Schnapf Law Brent Carrier – Vernon 4540 Realty LLC
- cc: Angela Krevey Anabel Beach, Inc. Donald Rattner – 549 46th Ave LLC