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July 17, 2021

Mr. Michael Squire Division of Environmental Remediation, Remedial Bureau C New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Re: Periodic Review Report – June 2020 to June 2021 1-45 Orangetown Shopping Center Orangeburg, New York Site #C344066

Dear Mr. Squire:

Enclosed is the *Periodic Progress Report* for the above referenced site prepared by Groundwater & Environmental Services, Inc. (GES) on behalf of UB Orangeburg, LLC. This document is required as an element of the remedial program at the Orangeburg (Orangetown) Shopping Center, located in the Town of Orangetown (Orangeburg), County of Rockland, New York under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions or comments regarding this submittal, please contact me at (866) 839-5195, extension 3839.

Sincerely, Groundwater & Environmental Services, Inc.

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UB Orangeburg, LLC

Periodic Review Report (Part 1)

UB Orangeburg 1-45 Orangetown Shopping Center NYSDEC Site Number C344066

July 2021

Version 1





Periodic Review Report

UB Orangeburg 1-45 Orangetown Shopping Center Orangeburg, New York NYSDEC Site #C344066

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Acronyms

BAS	bio-augmentation treatment system	NYS	New York State
BCA	Brownfield Cleanup Agreement	NYSDEC	New York State Department of
BCP	Brownfield Cleanup Program		Environmental Conservation
CCR-1	Construction Completion Report #1 - Source	NYSDOH	New York State Department of Health
	Removal	OM&M	operation, maintenance, and monitoring
COCs	constituents of concern	ORP	oxidation-reduction potential
DO	dissolved oxygen	RAWP	Remedial Action Work Plan
DUSR	data usability summary report	RI	Remedial Investigation
ECs	engineering controls	SGS	SGS/Accutest Laboratories of Dayton, New
EE	Environmental Easement		Jersey
EPA	Environmental Protection Agency	SMP	Site Management Plan
GES	Groundwater & Environmental Services, Inc.	SSDS	sub-slab depressurization system
GWQS	groundwater quality standards	SVI	soil vapor intrusion
HVAC	heating, venting, and air conditioning	TOC	total organic carbon
ICs	institutional controls	µg/l	micrograms per liter
i.w.	inches of water column	VOC	volatile organic compound
JLJ	JLJ Management Company		
KLF	Kleinfelder East, Inc.		
LORCO	Lorco Petroleum Services		

mg/L milligrams per liter



1 Executive Summary

This document is required as an element of the remedial program at the Orangeburg (Orangetown) Shopping Center, located in the Town of Orangetown (Orangeburg), County of Rockland, New York (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). The Site remediation activities have been conducted in accordance with the Brownfield Cleanup Agreement (BCA) Index #A3-0563-0906, site #C344066. JLJ Management Company (hereinafter referred to as the "JLJ") entered into a BCA with the NYSDEC in January of 2007 to remediate a 1.33-acre portion of the approximately 11 acre property containing chlorinated solvent compounds above NYSDEC standards. The subject property was purchased from JLJ by UB Orangeburg, LLC in 2012. On March 28, 2012, the Certificate of Completion was officially transferred from JLJ to UB Orangeburg, LLC.

Groundwater & Environmental Services, Inc. (GES) continues to implement the remedial activities outlined in the *Site Management Plan* (SMP)¹ updated in October 2019. Groundwater concentrations of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethene, vinyl chloride, and ethene (constituents of concern [COCs]) in well MW-5 have decreased or remained stable over the monitoring period and indicate degradation of chlorinated compounds through the chlorinated solvents reductive transformation pathway.

No major non-compliance issues have been identified during the monitoring period of June 17, 2020 to June 17, 2021.



2 Site Overview

The approximate geographical coordinates for the Site are 41 degrees, 2 minutes, 41.6 seconds North (Latitude) by 73 degrees, 57 minutes, 10.4 seconds West (Longitude). The Site is comprised of one (1) parcel (Section, Lot & Block: 74.10-67-1) that covers an area of approximately 11 acres. Included are the following: a Site Location Map (**Figure 1**) for the general property location, a Site Map (**Figure 2**) showing the current key Site features and a Detail Site Map (**Figure 3**) showing the current locations of injection and monitoring well points near building #2.

COCs were first observed at the Site after a damaged sewer line exiting the former Sparkle Cleaners Dry Cleaners was identified. The first remedial activity consisted of source removal activities and the repair of the sewer line in January of 2009. After completion of the remedial work described in *Construction Completion Report #1 - Source Removal* (CCR-1)², residual contamination was left in the subsurface soil in the vicinity of the release point, which is hereafter referred to as "remaining contamination". A SMP was prepared to manage remaining contamination until the Environmental Easement (EE) is extinguished in accordance with ECL Article 71, Title 36 (EE included as **Appendix A**). Components of the selected remedy consist of sub-slab depressurization systems (SSDSs) and a bio-augmented injection gallery.

2.1 Sub-Slab Depressurization Systems

Because of the residual contaminated subsurface soil and contaminated groundwater, the SSDSs were designed to mitigate potential vapor intrusion from residual chlorinated volatile organic compound (VOC) contamination into the southern portion of building #2, which businesses include: former Sparkle Cleaners (currently a Verizon Store), former Deli Spot (currently TZ Liquors), and New China House. The SSDSs were configured to create a negative pressure (relative to the indoor environment) within the area beneath the concrete floor slabs of the businesses within the southern portion of building #2, thereby minimizing the potential for migration of contaminant vapor into the indoor air of the tenant spaces.

The SSDSs were installed between February and May 2010, and activated in May 2010. The SSDSs as originally designed did not achieve the performance standard and it was subsequently modified. Additional performance testing was completed in June 2010 and a modified plan was prepared and approved by the NYSDEC in August 2010. Modifications were implemented between August and September 2010. The SSDSs were re-started with additional blowers in place on September 29, 2010 and operation was verified with another performance (vacuum response) test. Late in 2010, it was observed that ongoing heating, venting, and air conditioning (HVAC) issues in the building potentially affected the SSDS performance. These issues were the result of foundation leaking and back draft issues associated with furnaces and other fans;these issues were resolved in early 2011. The SSDSs were re-inspected in March to verify resolution of the issues. In late April 2011, three vapor-monitoring points were replaced in the New China Restaurant and another SSDS check was performed. This test verified measured vacuum of greater than 0.0025 inches of water column (i.w) was achieved across the slab of the three tenant spaces.



The NYSDEC approved the temporary shutdown of the SSDSs in August 2015 and the decommissioning of two (2) of the three (3) SSDSs (former Deli Spot and Sparkle Cleaners) in January 2017 following additional soil vapor intrusion (SVI) testing which verified mitigation of the soil vapor intrusion pathway as defined by the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*³, dated October 2006 and updates to Soil Vapor/Indoor Air Decision Matrices, dated May 2017. SSDS removal activities were completed only at the former Deli Spot tenant space in April 2017.

As requested by the NYSDEC, sub-slab and indoor air testing was conducted at the three (3) tenant spaces during the 2016/2017, 2017/2018, and 2018/2019 heating season to evaluate and monitor rebound following the SSDS shutdown. Subsequent to completing three (3) consecutive sampling events, the NYSDEC approved decommissioning of the third SSDS located at the New China House tenant space on August 19, 2019.

Based on the results of the consecutive sampling events from the 2016/2017 heating season to the 2018/2019 heating season, additional sub-slab and indoor air testing events were completed at the former Sparkle Cleaner tenant space (sample locations VP-5 and VP-6 only) in 2019/2020 and 2020/2021 heating season. Concentrations of select COCs at sample locations VP-5 and VP-6 were compared to the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*³ Soil Vapor/Indoor Air Decision Matrices. The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2019/2020 heating season event, was Monitor based on Matrix A COC concentrations at VP-6. This remedial action prompted the additional sub-slab and indoor air testing event during the 2020/2021 heating season. The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2020/2021 heating season. The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2020/2021 heating season. The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2020/2021 heating season. The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2020/2021 heating season event, was Identify Source and Resample or Mitigate based on Matrix B COC concentrations at VP-6 and Matrix A and Matrix C COC concentrations at VP-5. The sub-slab and indoor air event completed during this monitoring period (the 2020/2021 heating season) is summarized in the February 11, 2021 *Soil Vapor Intrusion Summary*.

An additional event will be conducted during the 2021/2022 heating season at the former Sparkle Cleaner tenant space (sample locations VP-5 and VP-6 only) as recommended in the *Soil Vapor Intrusion Summary*.

A Sub-Slab Depressurization Configuration map is included as **Figure 4**.

2.2 Bio-Augmentation Treatment System

Because of the presence of contaminated groundwater and residual soil contamination under building #2, a bio-augmentation treatment system (BAS) was designed. This treatment promotes in-situ microbial degradation of contaminants in saturated soil and groundwater. Addition of a bio-stimulant (molasses) to subsurface soil and groundwater acts as an electron donor that stimulates metabolic reduction of chlorinated VOCs to ethene via microorganisms that have been detected as being present at the Site, as have bacteria of the genus Dehalococcoides (in MW-5 and MW-6) and Dehalobacter (in MW-5).

Bio-augmentation injection points and manifold piping were installed following the source removal excavation between February and April 2010. A batch injection tank connects to the manifold via



manual gate valves to direct electron donor solution (a 10% molasses solution) and control flow to the injection points. Additional injection points were installed during April and May of 2012 and January of 2014 in accordance with the *Remedial Action Work Plan* (RAWP)⁴, submitted by Kleinfelder East, Inc. (KLF) in December 2011. Baseline and post injection sampling (from a network of monitoring wells), monitoring, and laboratory analysis provide the means to monitor treatment effectiveness. The initial rounds of injections were completed in May, July, and November 2010. The first round of treatment indicated bio-augmentation was enhancing biodegradation and dechlorination of the contaminants. The results also suggested that additional injections of electron donor solution would enhance treatment. Twelve (12) subsequent injection events were conducted at the Site between August 2012 and September 2016.

Bio-augmentation monitoring and treatment of groundwater will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC GWQS or have become asymptotic at an acceptable level over an extended period. This treatment will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant concentrations become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment, and/or control measures will be evaluated.

Conditions that warrant discontinuing the BAS include contaminant concentrations in groundwater that: (1) reach levels that are consistently below groundwater quality standards (GWQS), (2) have become asymptotic to a low level over an extended period of time as accepted by the NYSDEC, or (3) the NYSDEC has determined that the BAS has reached the limit of its effectiveness. This assessment will be based in part on post-remediation contaminant levels in groundwater collected from monitoring wells located throughout the Site. Monitoring wells formerly associated with the BAS (MW-A, MW-B, MW-C, MW-D, and MW-F) were abandoned in August 2017 following approval from the NYSDEC. The existing systems will remain in place and operational until permission to discontinue their use is granted in writing by the NYSDEC.

The NYSDEC approved completing annual, rather than quarterly, monitoring of the BAS on August 19, 2019.

Groundwater purged from on-site monitoring wells that are monitored on an annual basis will continue to be stored on-site in 55-gallon drum. During the reporting period, GES oversaw the removal of waste on May 11, 2021. Lorco Petroleum Services (Lorco) of Elizabeth, New Jersey transported and disposed of one (1) 55-gallon drum containing purged groundwater generated during the 2021 annual sampling event.

A copy of the non-hazardous waste manifests are provided as **Appendix B**



3 Evaluation of Remedy Performance and Effectiveness

3.1 Sub-Slab Depressurization System Evaluation

Quarterly operation, maintenance, and monitoring (OM&M) visits were not conducted during the reporting period due to the temporary shutdown of the remaining SSDS at the former Sparkle Cleaners.

3.2 Bio-Augmentation System Evaluation

Baseline and post-injection sampling (from a network of monitoring wells), monitoring, and laboratory analysis provide the means to monitor treatment effectiveness. Overall, 12 injection events have been completed since August 2012. A total approximate volume of 8,015 gallons of 10% molasses solution has been injected since the initiation of this remedy. The last event was conducted on September 14, 2016 utilizing injection wells IP-3, IP-4, INJ-3D, and INJ-4D.

Geochemical targets for pH and total organic carbon (TOC) concentration in the BAS monitoring network wells are established to inform decision making regarding injection frequency and quantity. The optimal geochemical target range for TOC concentrations is 50 through 500 milligrams per liter (mg/L) and a pH between 6 and 8. During the April 30, 2021 annual monitoring event, bio-parameter levels for pH were within the target range at monitoring well MW-5 (6.34); however, the TOC concentration was 16.4 mg/L, which is below the target range. Since dissolved-phase concentrations of all COCs at monitoring well MW-5 decreased or remained below detection levels between the 2020 and 2021 annual groundwater sampling event, an additional bio-augmentation injection event is not proposed at this time.

Groundwater well logs updated during each sampling event are included as **Appendix C**. Please refer to **Figure 5** and **Tables 1** and **2** for a summary of groundwater elevation and concentrations of the COCs at all sampled monitoring wells. **Figure 6** and **Tables 3** and **4** present the general chemistry analytical results and measured bioparameter readings including optimal geochemical target range for TOC concentrations (50 mg/L through 500 mg/L) and pH (6 to 8) at the monitoring wells. Groundwater trends observed at monitoring well MW-5 during the monitoring period are illustrated in **Figure 7**.



4 Institutional Control & Engineering Control Plan Compliance

GES completed a site inspection on May 11, 2021 to confirm that institutional controls (ICs) and engineering controls (ECs) at the Site were in compliance with the EE and SMP.

4.1 Institutional Controls

ICs at the Site (**Appendix D**) include compliance with the EE. The EE contains the following stipulations: no new drinking water wells can be installed and new business and residences must be connected to city water. The SMP stipulates all ECs must be operated and maintained as specified in the SMP, all ECs on the controlled property must be inspected at a frequency and in a manner defined in the SMP, groundwater and other environmental monitoring must be performed as defined in this SMP, and data and information pertinent to site management of the control property must be reported at a frequency and in a manner specified in the SMP.

During the monitoring period all ICs have been in compliance with the EE. No new drinking wells have been installed and no new businesses have been built which would require a connection to city water. All ECs have been operated and maintained as specified in the SMP or otherwise approved by the NYSDEC. ECs are inspected in accordance to the required frequency set forth by the SMP. Groundwater and other environmental monitoring have been performed as defined in the SMP. Progress reports summarizing groundwater and other environmental monitoring were submitted to the NYSDEC and the NYSDOH as they are completed. Approval to discontinue submittal of monthly progress reports was granted by the NYSDEC in a letter dated August 25, 2014.

Regulatory correspondences during the monitoring period are attached as Appendix E.

4.2 Engineering Controls

The SMP requires that three separate ECs be maintained at the Site: the SSDSs, the BAS, and the composite cover system. Maintenance and inspections of the ECs at the Site are reported to the NYSDEC and NYSDOH in the annual *Periodic Review Report* or if necessary, through *Non-Routine Reports*.

Historically, exposure to vapor intrusion within the southern portion of building #2 was mitigated by the operation of the SSDSs. This system was comprised of extraction piping, sub-slab ventilation blowers and associated appurtenances at former Sparkle Cleaners, the former Deli Spot, and New China House tenant spaces. The SSDSs created a negative pressure which intercepted potential soil vapor from beneath the concrete floor using eight branches (SSD-1 through SSD-8) and transferred extracted vapors using in-line blowers to discharge locations outside the building (above the roof). Thirteen (13) extraction points were installed between the three (3) tenant spaces. Additional extraction points were added to each tenant space after the SSDSs was initially installed. Fifteen (15) vacuum monitoring points were also installed within the three (3) tenant spaces to measure and verify vacuum beneath the concrete slab. A manometer was installed on the suction side of the in-line blower on each of the SSD branches to provide a visual indicator that the SSDSs operate properly.



The SSDSs have been temporarily shut-down since August 17, 2015 following receipt of NYSDEC approval. In May 2017, following NYSDEC approval, the former Deli Spot SSDS was permanently decommissioned. The NYSDEC approved the decommissioning of the SSDS located at the New China House tenant space on August 19, 2019; however, the SSDS still remains idle.

Because of the presence of residual contaminated groundwater and residual soil contamination under building #2, a BAS was designed. This treatment promotes in-situ microbial degradation of contaminants in saturated soil and groundwater. Addition of a molasses solution to subsurface soil and groundwater acts as an electron donor that stimulates metabolic reduction of chlorinated VOCs to ethene. Bio-augmentation injection points and manifold piping were installed after the source removal excavation between February and April 2010. An additional nine (9) nested bio-augmentation injection points and four (4) additional monitoring wells were installed between April and May of 2012 and January of 2014 in accordance with the RAWP. Details regarding the installation of additional monitoring points and nested injection wells can be referenced in the May 2012, January 2014, and February 2014 *Monthly Progress Reports*^{5,6,7}, submitted to the NYSDEC.

Molasses injection events were not completed during the monitoring period. The BAS monitoring network will continue to be monitored via annual sampling of wells during the 2021/2022 monitoring period to determine future injection frequency and quantity.

Maintenance and inspections of the composite cover system consisting of existing impermeable surfaces (concrete slabs and asphalt paving) were conducted during the monitoring period.

IC and EC certifications are provided in **Appendix D**.



5 Exposure Assessment

EC's at the Site such as the SSDSs and the composite cover system have been incorporated into the Site remedy to control exposure to remaining contamination during the use of the Site to ensure protection of public health and the environment.

5.1 Historic Qualitative Exposure Assessment

5.1.1 Soil Vapor Intrusion Assessment

A *Remedial Investigation* (RI) report⁸ which included a SVI assessment and exposure assessment for the Site was submitted by KLF in May 2008. The SVI assessment, which included sub-slab soil vapor sampling, indoor air sampling, and ambient outdoor air sampling data was conducted on July 12, 2007 and November 27 to December 6, 2007. On-Site properties sampled included Building 1 through Building 3 and the off-Site properties sampled included 55 Highview Avenue, 1 Oak Street, 3 Oak Street, and 9 Oak Street. The SVI assessment in the RI report concluded the following:

- Building 1: Concentrations of chlorinated solvents were below laboratory detection limits for all samples.
- Building 2: Concentrations of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride were detected in sub-slab soil vapor, indoor air, and outdoor ambient air at multiple locations in Building 2 (sample locations referred to at the time as Sparkle Cleaners, The Deli Spot, and Hikaru Restaurant).
- Building 3: Concentrations of tetrachloroethene were detected in indoor air, ambient outdoor air, outdoor soil vapor, and sub-slab soil vapor at multiple locations located in the northern portion of Building 3 (VP-207, VP-206, VP-205, and VP-203).
- 55 Highview Avenue: Concentrations of tetrachloroethene and trichloroethene were detected in an ambient outdoor air sample. Concentrations of chlorinated solvents in sub-slab soil vapor samples were below laboratory detection limits.
- 1 Oak Street: Concentrations of trichloroethene were detected in indoor air samples. Concentrations of chlorinated solvents in sub-slab soil vapor samples were below laboratory detection limits.
- 3 Oak Street: Concentrations of tetrachloroethene and trichloroethene were detected in upstairs indoor air and tetrachloroethene was detected in sub-slab soil vapor.
- 9 Oak Street: Concentrations of chlorinated solvents were below laboratory detection limits for all samples.

KLF determined that based on these findings, a correlation of sub-slab soil vapor and indoor air quality appears to only exist in Building 2 based on elevated concentrations of chlorinated solvents in both soil vapor and indoor air. KLF determined that the chlorinated solvent concentrations present in Building 3 and off-Site properties were negligible and due to an airborne source controlling indoor air quality.



5.1.2 Qualitative Exposure Assessment

In the 2008 RI Report, KLF includes a qualitative exposure assessment, which identifies exposure pathways on-Site. The exposure assessment concluded that a complete exposure pathway existed for soil vapor at the Site and potentially complete exposure pathways existed for groundwater in relation to the groundwater plume on-site with the potential to migrate off-site and for soils located at Building 2 (specifically, Sparkle Cleaners).

Each EC at the Site addresses these complete and potentially complete exposure pathways. The complete exposure pathway that exists for soil vapor at the Site was addressed by the SSD systems installed in Building 2 at the former Sparkle Cleaners (currently a Verizon Store), former Deli Spot (currently TZ Liquors), and New China House. The potentially complete exposure pathways for groundwater was addressed by the BAS and the quarterly/annual groundwater monitoring program and pathways for soil was addressed by the composite cover system and associated ICs.

5.2 Quantitative Exposure Assessment

Following the exposure assessment submitted for the Site in 2008, the risk of exposure at the Site has been quantitatively assessed and summarized on a routine basis in the *Progress Reports* and/or *Soil Vapor Intrusion Summary* reports submitted to the NYSDEC and NYSDOH. Soil vapor impacts present at Building 2 were addressed with the SSDS systems and quantitatively assessed with sub-slab and indoor air sampling events conducted in April 2015, December 2015, November 2016, December 2017, December 2018, December 2019, and January 2021. The SSDSs were shut down on August 15, 2015, with all sampling events conducted with the SSDSs offline for testing. The sampling events recommended the following remedial actions (based on the NYSDOH *Guidance for Evaluation Soil Vapor Intrusion in the State of New York*) for each tenant space in Building 2:

- April 2015: No further action was recommended for each sample location (former Deli Spot, New China House, and former Sparkle Cleaners).⁹
- December 2015: No further action was recommended for each sample location (former Deli Spot, New China House, and former Sparkle Cleaners).¹⁰
- November 2016: No further action was recommended at two (2) of the tenant spaces (former Deli Spot and former Sparkle Cleaners). At the New China House space, it was recommended to identify sources and reduce exposure based on concentrations of tetrachlorethene in the indoor air samples.¹¹
- December 2017: No further action was recommended for each sample location (former Deli Spot, New China House, and former Sparkle Cleaners).¹²
- December 2018: No further action was recommended at two (2) of the tenant spaces (former Deli Spot and New China House). At the former Sparkle Cleaners space, no further action was recommended for sample location VP-5 and monitor was recommended for sample location VP-6 based on concentrations of tetrachlorethene and trichloroethene in the sub-slab and indoor air samples.¹³



- December 2019: At the former Sparkle Cleaners space, no further action was recommended for sample location VP-5 and monitor was recommended for sample location VP-6 based on concentrations of cis-1,2-dichloroethene and trichloroethene in the sub-slab and indoor air samples.¹⁴
- January 2021: At the former Sparkle Cleaners space, it was recommended to identify source and resample or mitigate at sample location VP-5 based on concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in the indoor air samples. It was also recommended to identify source and resample or mitigate at sample location VP-6 based on concentrations of tetrachloroethene in the indoor air samples.¹⁵

Ongoing quantitative exposure assessment results show that the corrective actions completed to date have effectively reduced the presence of chlorinated compounds in the sub-surface soil and groundwater to levels that have eliminated the need for active mitigation of the historic soil vapor intrusion pathway at portions of Building 2. Additionally, the repeated testing events that were conducted every heating season after SSDS shutdown demonstrated that sub-slab vapor concentrations have not rebounded following SSDS shutdown and are not likely to do so.

GES has recommended in the February 2021 *Soil Vapor Intrusion Summary*¹⁵ report, which summarizes the January 2021 testing event, to conduct an additional sub-slab and indoor air testing event during the 2021/2022 heating season at the former Sparkle Cleaners tenant space. The data generated from this additional event will be used to further evaluate potential soil vapor intrusion issues or rebound in this area of Building 2.



6 Monitoring Plan Compliance

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the composite cover system, and all affected Site media identified in the SMP. Monitoring results and performance evaluation of the ECs are reported to the NYSDEC and the NYSDOH as they are completed.

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Components and schedule of the current monitoring plan are summarized in Chart 1.

Monitoring Program	Frequency	Matrix	Analysis
Composite Cover System	Annual (minimum) or during other (more frequent) inspections as time and conditions warrant	Soil	Visual Inspection of Cover
SSDS	Temporarily Shutdown/ Permanently Decommissioned	Soil Vapor	Negative Pressure
BAS	"As Needed", if TOC concentrations are below 50 mg/L	Groundwater	ТОС
Groundwater	Annual	Groundwater	Chlorinated VOCs, ethene

6.1 Composite Cover Monitoring Compliance

On May 11, 2021, the composite cover system was inspected by a qualified environmental professional. The composite cover system was observed to be intact. Surficial cracks in the asphalt parking lot in areas of the well network were noted but considered de Minimis in nature. Photographs of the asphalt parking lot are provided in **Appendix F**.

Additional inspections occurred during one or more of the following activities: groundwater sampling and/or site visits.

6.2 Sub-Slab Depressurization System Monitoring Compliance

SSDS inspections and monitoring were not conducted this year due to the temporary shutdown of the SSDSs as of August 2015. SSDS removal activities were completed at the former Deli Spot tenant space in April 2017.

A *SSDS Decommissioning Request* ¹⁶ was submitted to the NYSDEC and NYSDOH (the Departments) on January 3, 2017 requesting approval to decommission two (2) of the three (3) SSDSs at the Orangetown Shopping Center. The request to decommission the former Deli Spot and former Sparkle Cleaners tenant spaces was approved by the Departments on January 20, 2017 with a contingency to collect yearly sub-slab and indoor air samples from the three (3) tenant spaces for the next two (2) heating seasons (2017/2018 and 2018/2019).

Based on the results of the consecutive sampling events, an additional sub-slab and indoor airtesting event was completed during the 2020/2021 heating season focusing on the former Sparkle



Cleaner location on January 6 and 7, 2021. Indoor air and sub-slab samples were collected from sample locations VP-5 and VP-6 as illustrated on **Figure 8**. Samples were submitted to SGS/Accutest Laboratories of Dayton, New Jersey (SGS) and were analyzed for VOCs via Environmental Protection Agency (EPA) Methods VTO15NYLL and/or VTO15NYSVLL. Laboratory analytical results were compared to the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, section 3.4.2, Indoor Air Matrices A, B, and C. Based on the comparison, a recommendation of Identify Source and Resample or Mitigate at the former Sparkle Cleaners is supported by the trichloroethene, cis-1,2-dichloroethene, and vinyl chloride concentrations at sample location VP-5 and tetrachloroethene concentrations at sample location VP-6.

The SVI investigation was summarized in the *Soil Vapor Intrusion Summary* submitted to the NYSDEC in February 2021. Pending approval from the NYSDEC and NYSDOH, an additional sampling event will be conducted at the former Sparkle Cleaners tenant space during the 2021/2022 heating season as proposed in the *Soil Vapor Intrusion Summary*. SVI investigation analytical results are summarized in **Table 5** and the comparison of analytical results to NYSDOH Indoor Air Matrices A, B, and C is included as **Table 6**.

6.3 Bio-Augmentation System Monitoring Compliance

Inspections and monitoring of the BAS were completed as described in the SMP. A total of 12 injection events have been completed since August 2012. A total approximate volume of 8,015 gallons of 10% molasses solution has been injected since the initial event.

Annual baseline sampling were completed at the Site on April 30, 2021. Monitoring wells MW-3, MW-4, MW-5, MW-8A, and MW-E are sampled on an annual basis. Updates to the groundwater sampling program were submitted as revisions to the SMP in October 2019.

Annual groundwater samples were submitted to SGS for the following analysis: VOCs, ethene, nitrate, iron (total, ferrous and ferric), sulfate, and/or TOC. Analytical data provided by SGS is included in **Appendix G** and are represented in **Table 2**, **Table 4**, and **Figure 5**. The Category B laboratory analytical reports provided by SGS was submitted to RemVer for review of data quality. Subsequent to the data review, RemVer provided a data usability summary report (DUSR), included in **Appendix H**.



7 Operation, Monitoring & Maintenance Plan Compliance

The OM&M Plans describe the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the Site. This section has two specific OM&M plans: one (1) for the SSDS and one (1) for the BAS.

Annually, copies of the OM&M forms generated from field activities at the Site are placed inside the on-Site hazardous communications box. Additionally, a copy of the Sub-Slab Depressurization Operation, Monitoring, and Maintenance Plan, Bio-augmentation System Operation, Maintenance, and Monitoring Plan and manuals provided by the equipment manufacturer are stored in the hazardous communications box for reference.

7.1 Sub-Slab Depressurization OM&M Compliance

The SSDSs remained temporarily shutdown for the entire monitoring period. Due to the shutdown of the SSDSs, OM&M events were not completed during the June 2020 to June 2021 period.

7.2 Bio-Augmentation OM&M Compliance

A BAS OM&M visit was completed for the monitoring period either during the annual EC/IC inspection or annual groundwater sampling event and included the following activities: an inspection for security issues, vandalism, system damage, equipment or conveyance malfunction, connection integrity or environmental effects, gauging of BAS monitoring well network, collection of general groundwater chemistry parameters, visual inspection of piping stub-ups and BAS monitoring well road boxes, and inspection of well pads and injection road boxes and road pads. No non-compliance issues were identified during the reporting period.



8 Conclusions and Recommendations

8.1 SMP Compliance

Updates to the groundwater sampling, BAS, and SSDS decommissioning sections of the SMP were submitted as revisions on October 24, 2019 and approved by the NYSDEC on November 5, 2019.

During this monitoring period, all requirements set forth in the SMP have been completed. ICs described in the SMP are in place and in compliance. Monitoring and OM&M of the two (2) active ECs (composite cover and BAS) were conducted during the monitoring period as specified in the SMP. OM&M of SSDSs have been suspended while the remaining systems are temporarily shutdown. Inspection of the composite cover system was completed at a minimum frequency of once annually. Monitoring and OM&M of the BAS was completed on an annual basis during either the annual EC/IC inspection or annual groundwater sampling event.

8.2 Performance and Effectiveness of Remedy

8.2.1 Soil Vapor and SSDS Operation

The SSDSs have been temporarily shut-down since August 17, 2015. The NYSDEC approved the request to permanently decommission the SSDSs in the former Deli Spot and the former Sparkle Cleaners in January 2017. SSDS removal activities were completed at the former Deli Spot in May 2017 and the SSDS at the former Sparkle Cleaners remains in place but inactive. Following annual SVI studies in which no further action was recommended at sampling points within the New China House, the NYSDEC approved decommissioning of the SSDS at the New China House remains in place but inactive.

The remedial action required based on the Soil Vapor/Indoor Air Decision Matrices, during the 2020/2021 heating season event, was Identify Source and Resample or Mitigate based on Matrix B COC concentrations at VP-6 and Matrix A and Matrix C COC concentrations at VP-5. An additional soil vapor sampling event was proposed to be conducted during the 2021/2022 heating season at the former Sparkle Cleaners tenant space only (sample locations VP-5 and VP-6 only). Approval of the *Soil Vapor Intrusion Summary* and proposed plans by the NYSDEC and NYSDOH are pending. The results of the additional sampling event will be evaluated against the Soil Vapor/Indoor Air Matrix A, B, and C matrices to propose appropriate additional actions.

Concentrations of COCs in the sub-slab and indoor air at sample points VP-5 and VP-6 will continue to be monitored for indications of soil vapor intrusion or rebound since the SSDS shutdown in 2015. Based on January 2021 sub-slab and indoor air data at the former Sparkle Cleaners, COCs have remained stable or decreased since 2017 and do not indicate either soil vapor intrusion or rebound.



8.2.2 Groundwater and Bio-Augmentation

GES evaluated VOC concentrations in groundwater at monitoring wells MW-3, MW-4, MW-5, MW-8A, and MW-E over the annual monitoring period. The results of this evaluation are summarized in the table below.

Monitoring Well Identification	COC Exceedance Summary
MW-3	Stable with no COC exceedances
MW-4	Stable with no COC exceedances
MW-5	Decrease in trichloroethene [5.3 micrograms per liter (μ g/L), exceeds GWQS], cis-1,2-dichloroethene [80.1 μ g/L, exceeds GWQS], and vinyl chloride [4.0 μ g/L, exceeds GWQS]. No other COC exceedances
MW-8A	Increase in trichloroethene (5.7 μ g/L, exceeds GWQS) and cis-1,2-dichloroethene [5.6 μ g/L, exceeds GWQS]. No other COC exceedances
MW-E	Stable with no COC exceedances

The absence of tetrachloroethene in groundwater samples and continued generation of ethene is indicative of continued source depletion and chlorinated solvent reduction. Concentrations of all dissolved-phase COCs at monitoring well MW-5 continue to decrease.

8.3 Recommendations

As proposed in the *Soil Vapor Intrusion Summary*, GES recommends an additional SVI Studybe conducted at the former Sparkle Cleaner tenant space during the 2021/2022 heating season.

Bio-augmentation injection events are generally scheduled when TOC concentrations are outside the optimal geochemical range (50 mg/L to 500 mg/L) in monitoring well MW-5. The TOC concentration at monitoring well MW-5 during the annual groundwater sampling event was below the geochemical range at 16.4 mg/L. However, concentrations of COCs at monitoring well MW-5 only had GWQS at trichloroethene, cis-1,2-dichloroethene, and vinyl chloride. These constituents only exceed GWQS by 0.3 μ g/L for trichloroethene, 75.1 μ g/L for cis-1,2-dichloroethene, and 2.0 μ g/L for vinyl chloride and each COC had concentrations decrease from the previous monitoring period. Since concentrations of all COCs at monitoring well MW-5 have decreased or remained below detection levels since the last monitoring period, a molasses injection event is not currently planned at this time.

Based on the continued observed dissolved-phase trends outlined above, GES recommends termination of the groundwater monitoring program at this time. If approved, an update to the SMP will be completed to memorialize this change.



References

¹ Groundwater & Environmental Services, Inc., *Site Management Plan*, updated October 24, 2019.

² Kleinfelder East, Inc., *Construction Completion Report #1 – Source Removal*, June 7, 2011.

³ New York State Department of Health, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, revised May 2017.

⁴ Kleinfelder East, Inc., *Remedial Action Work Plan*, December 19, 2011.

⁵ Groundwater & Environmental Services, Inc., *May 2012 Monthly Progress Report*, May 31, 2012.

⁶ Groundwater & Environmental Services, Inc., *January 2013 Monthly Progress Report*, January 31, 2014.

⁷ Groundwater & Environmental Services, Inc., *February 2014 Monthly Progress Report*, February 28, 2014.

⁸ Kleinfelder East, Inc., Remedial Investigation, May 2008.

⁹ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Investigation Summary*, June 4, 2015.

¹⁰ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Investigation Summary*, February 9, 2016.

¹¹ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Investigation Summary*, March 10, 2017.

¹² Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Summary*, January 30, 2018.

¹³ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Summary*, February 12, 2019.

¹⁴ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Summary*, January 20, 2020.

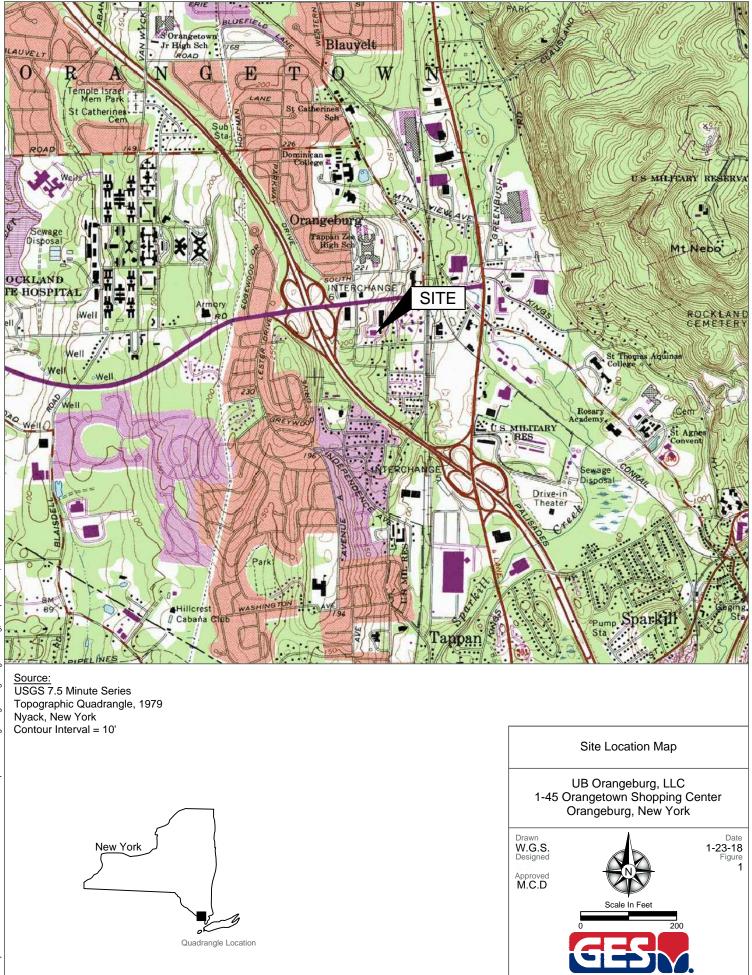
¹⁵ Groundwater & Environmental Services, Inc., *Soil Vapor Intrusion Summary*, February 11, 2021.

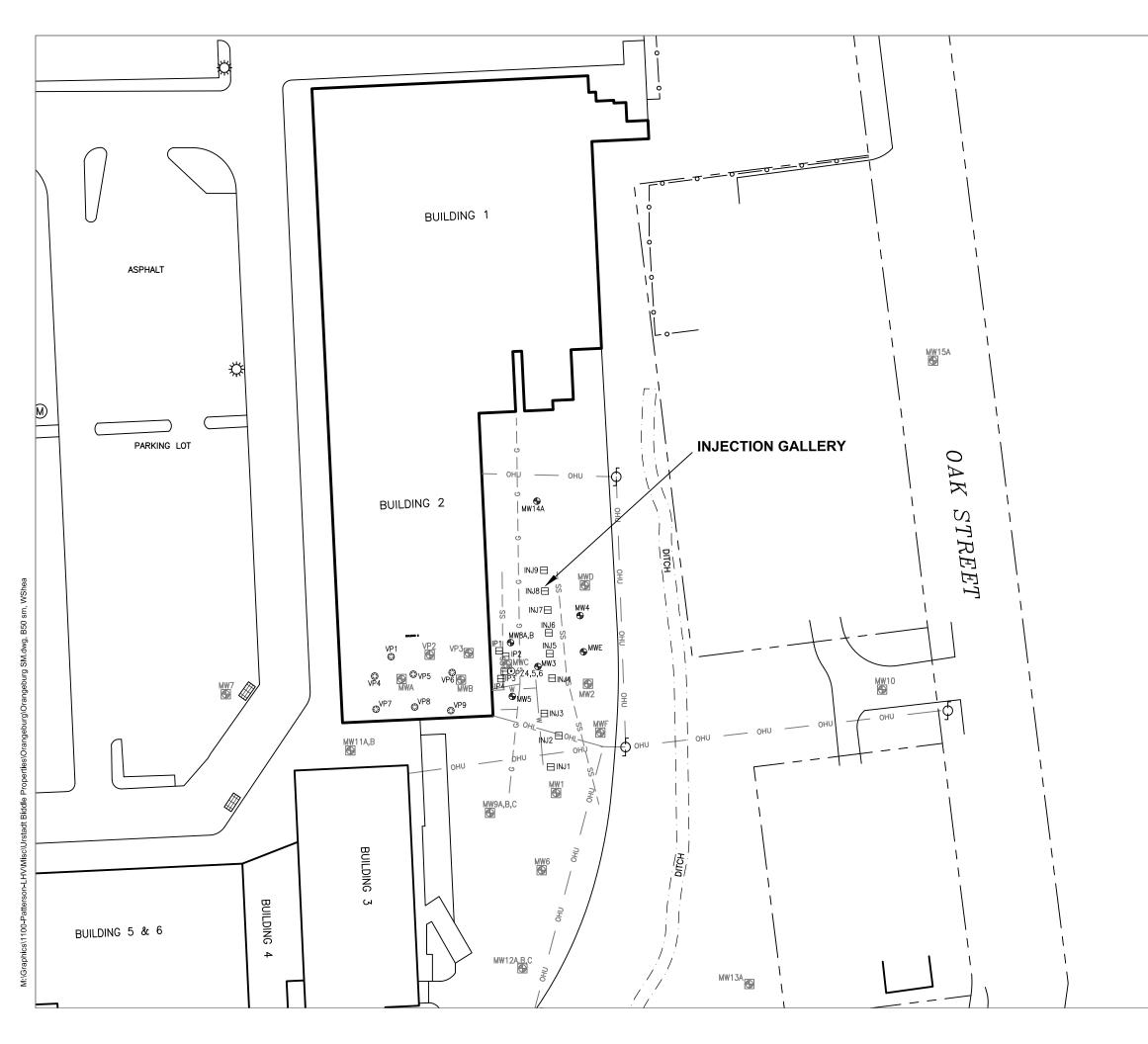
¹⁶ Groundwater & Environmental Services, Inc., *SSDS Decommissioning Request*, January 3, 2017.

Periodic Review Report 1-45 Orangetown Shopping Center Orangeburg, New York









<u>LEGEND</u>

	PROPERTY BOUNDARY
o	CHAIN LINK FENCE
	CATCH BASIN
M	UTILITY MANHOLE
φ	UTILITY POLE
¢	LIGHT POLE
¢	FIRE HYDRANT
•	MONITORING WELL
	INJECTION WELL
\bigcirc	DESTROYED MONITORING WELL
۲	PIEZOMETER
\odot	SOIL VAPOR EXTRACTION WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
OHU	OVERHEAD UTILITIES

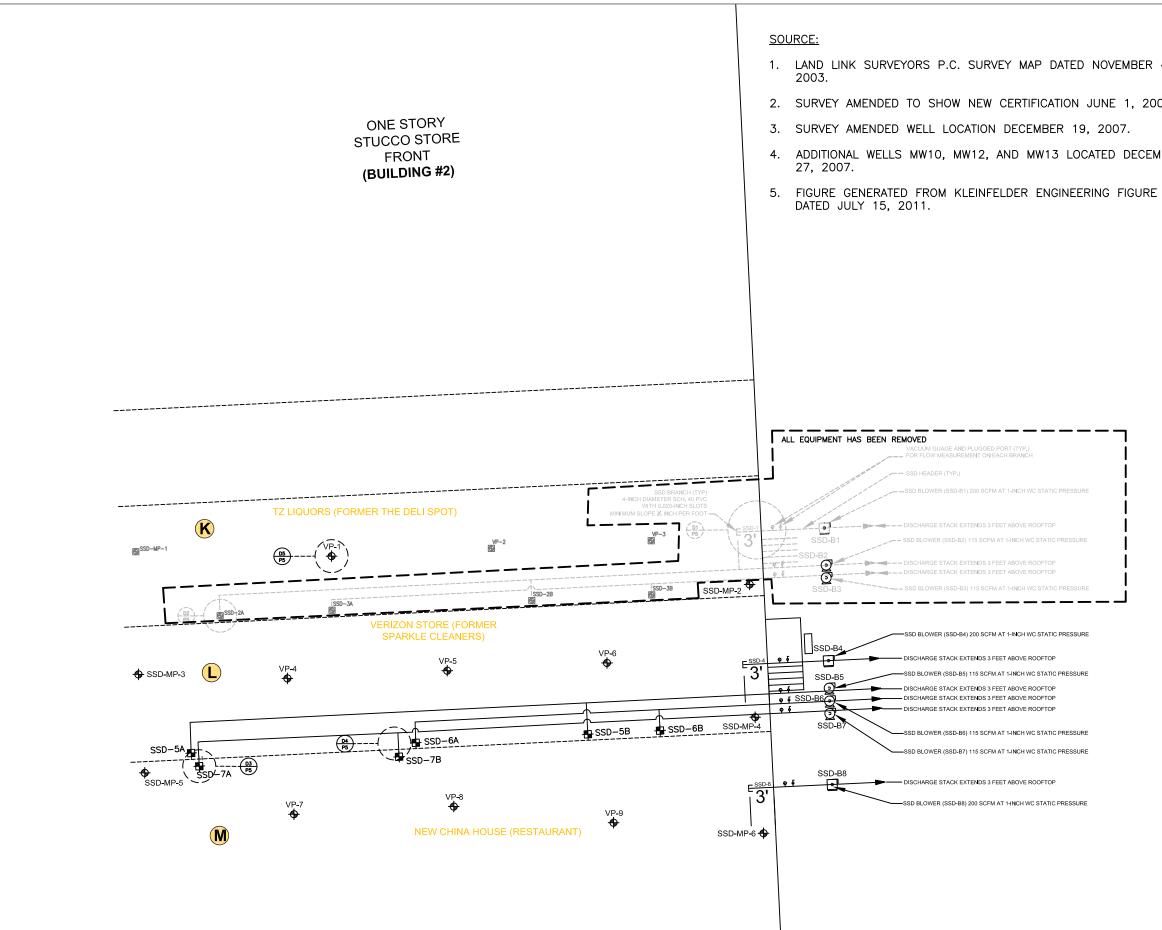




<u>LEGEND</u>

	PROPERTY BOUNDARY
o	CHAIN LINK FENCE
	CATCH BASIN
M	UTILITY MANHOLE
φ	UTILITY POLE
ج	LIGHT POLE
ŵ	FIRE HYDRANT
\bullet	MONITORING WELL
\square	INJECTION WELL
\bigcirc	DESTROYED MONITORING WELL
۲	PIEZOMETER
\odot	SOIL VAPOR EXTRACTION WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
они	OVERHEAD UTILITIES





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LEGEND

_	SSD-MP-6 🔶	SUB-SLAB MONITORING PORT
4,	8	SUB-SLAB VAPOR EXTRACTION WELL
05.		DETAIL NUMBER PLATE NUMBER
	_	SSD BLOWER (115 SCFM)
MBER	5	SSD BLOWER (200 SCFM)
	ę	VACUUM GAUGE
-	ę	PLUGGED PORT
	\bigcirc	ABANDONED/DESTROYED WELL

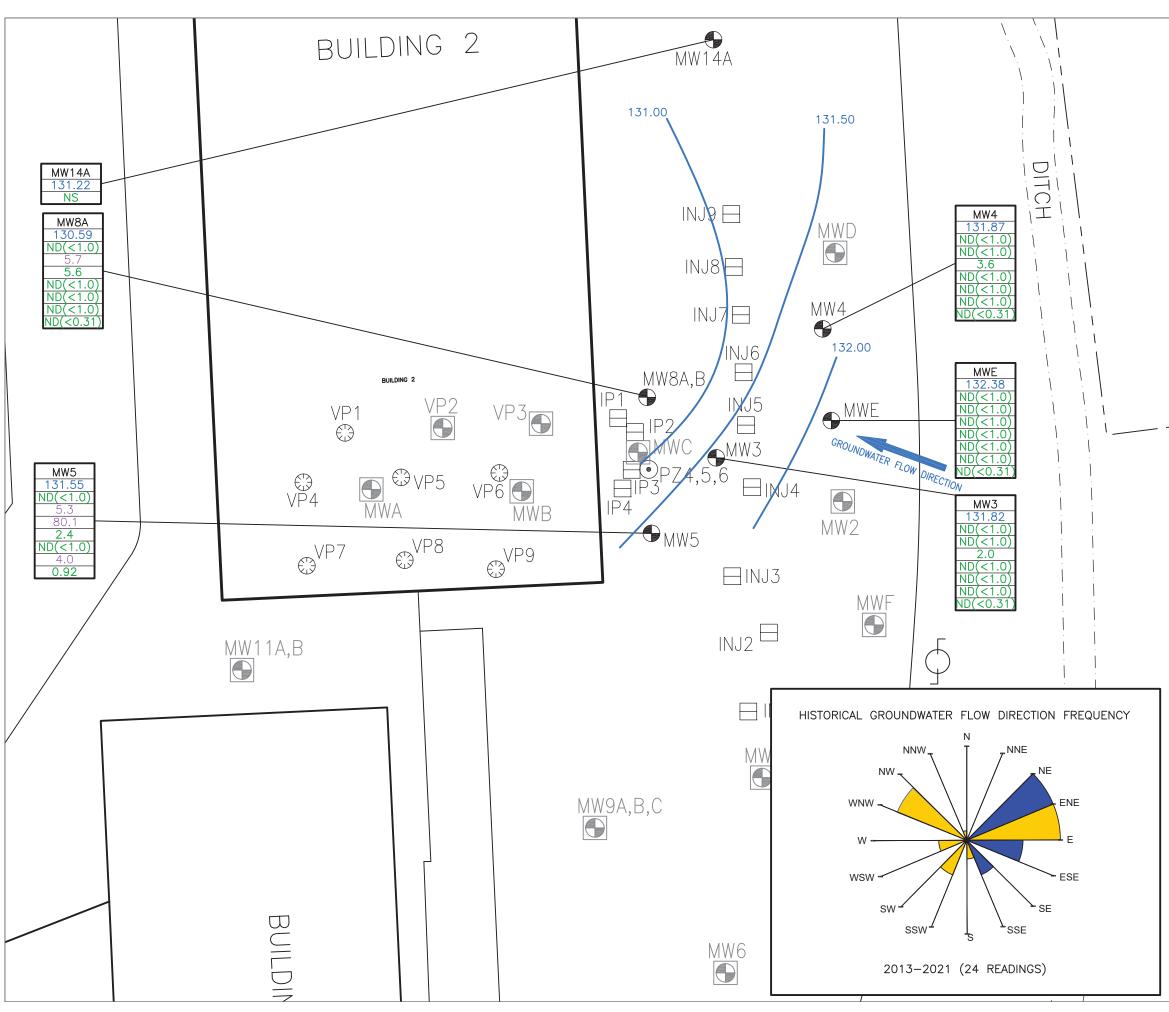
COMMERCIAL STORE ID TABLE (BUILDING #2)

K	TZ LIQUORS (FORMER THE DELI SPOT)
L	VERIZON STORE (FORMER SPARKLE CLEANERS)
M	NEW CHINA HOUSE

NOTES:

- 1. THE EXTRACTION PIPING INSIDE THE BUILDING IS ROUTED ABOVE THE SUB-CEILING OR ALONG THE EXTERIOR WALL.
- 2. DISCHARGE STACKS EXTEND 3 FEET ABOVE THE ROOFTOP (TYP.).

Sub-Slab Depressurization Configuration
UB Orangeburg, LLC 1-45 Orangetown Shopping Center Orangeburg, New York
Drawn Date W.G.S. 7/2/19 Designed Figure Approved 4
M.C.D
Not to Scale
GEBOX. Groundwater & Environmental Services, Inc.



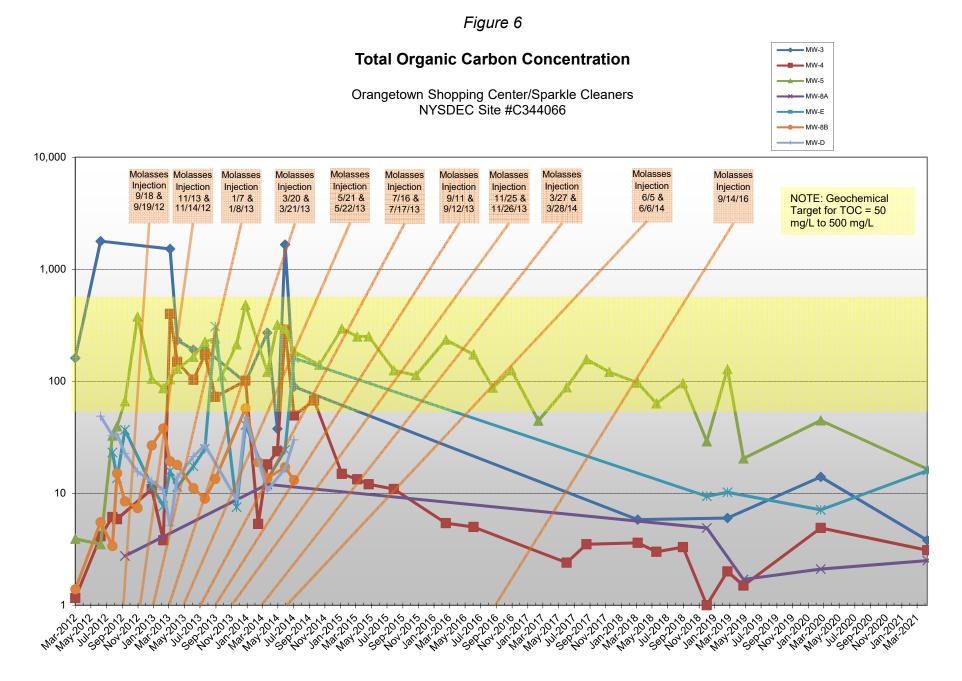
<u>LEGEND</u>

	LLGLND	
		PROPERTY BOUNDARY
	o	CHAIN LINK FENCE
		CATCH BASIN
	M	UTILITY MANHOLE
	⊗∽ಘф	UTILITY POLE
	ф.	LIGHT POLE
	ŵ	FIRE HYDRANT
	\bullet	MONITORING WELL
	\square	INJECTION WELL
	\bigcirc	DESTROYED MONITORING WELL
	۲	PIEZOMETER
and and	\odot	SOIL VAPOR EXTRACTION WELL
and a start of the	MW8A 130.59 ND(<1.0) 5.7 5.6 ND(<1.0) ND(<1.0) ND(<1.0) ND(<0.31)	WELL IDENTIFICATION GROUNDWATER ELEVATION (feet) TETRACHLOROETHENE CONCENTRATION (ug/L) TRICHLOROETHENE CONCENTRATION (ug/L) CIS-1,2-DICHLOROETHENE CONCENTRATION (ug/L) TRANS-1,2-DICHLOROETHENE CONCENTRATION (ug/L) 1,1-DICHLOROETHENE CONCENTRATION (ug/L) VINYL CHLORIDE CONCENTRATION (ug/L) ETHENE CONCENTRATION (ug/L)
	ug/L	MICROGRAMS PER LITER
	ND	NOT DETECTED
	<#	WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN
	NS	NOT SAMPLED
	_	NOT AVAILABLE
	1	GROUNDWATER CONTOUR (feet)

NOTE:

VALUE SHADED PURPLE EXCEEDS NYSDEC TOGS 1.1.1 GWQS.



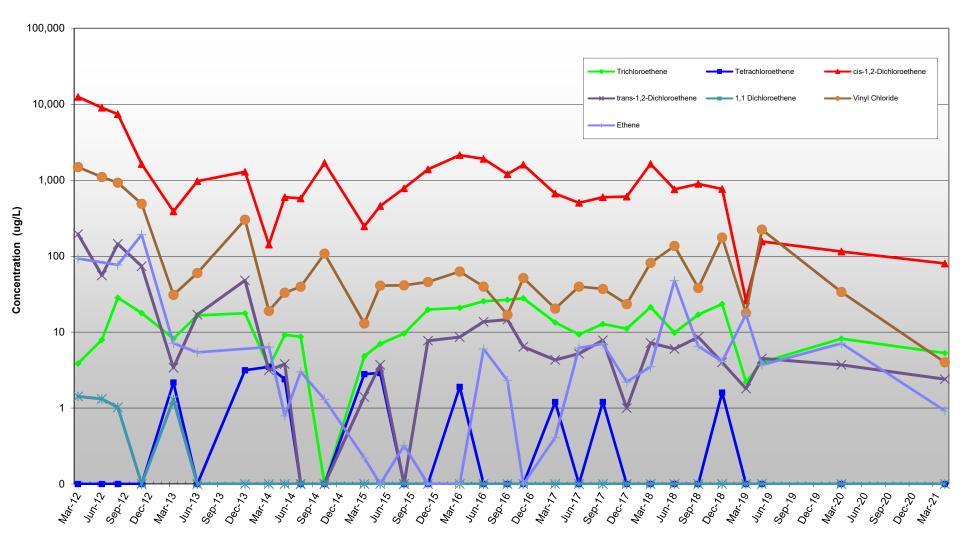


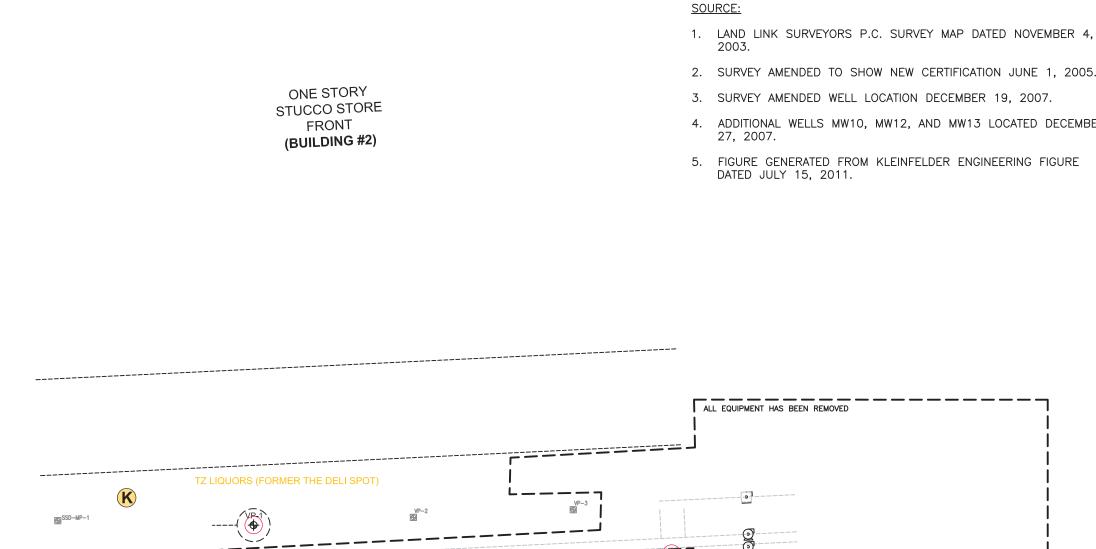


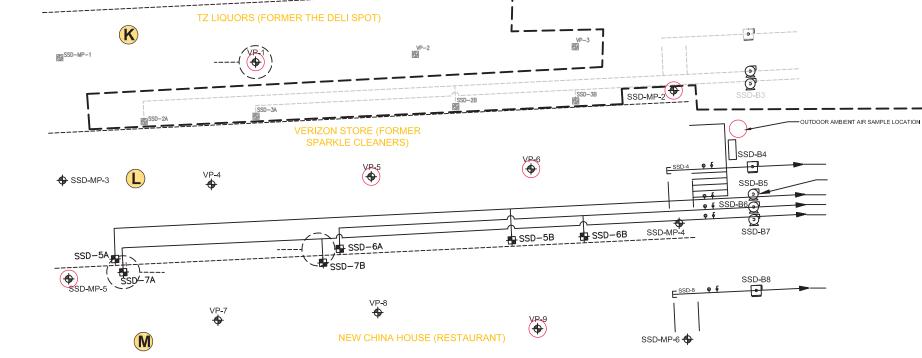


MW-5 Chlorinated Solvent Reductive Transformation Pathway

Orangetown Shopping Center/Sparkle Cleaners NYSDEC Site #C344066







LEGEND

	SSD-MP-6 🔶	SUB-SLAB MONITORING PORT
4,	-	SUB-SLAB VAPOR EXTRACTION WELL
05.		DETAIL NUMBER PLATE NUMBER
	D	SSD BLOWER (115 SCFM)
MBER	2	SSD BLOWER (200 SCFM)
	ę	VACUUM GAUGE
Ē	ę	PLUGGED PORT
	\bigcirc	ABANDONED/DESTROYED WELL
	\bigcirc	Sub-slab and/or Ambient Air Sample Location

COMMERCIAL STORE ID TABLE (BUILDING #2)

K	TZ LIQUORS (FORMER THE DELI SPOT)
L	VERIZON STORE (FORMER SPARKLE CLEANERS)
M	NEW CHINA HOUSE

Sub-Slab and Ambient Air Sampling Map						
UB Orangeburg, LLC 1-45 Orangetown Shopping Center Orangeburg, New York						
Drawn Date W.G.S. 7/2/19 Designed Figure Approved 8						
M.C.D						
Not to Scale						
GERENZ. Groundwater & Environmental Services. Inc.						

Periodic Review Report 1-45 Orangetown Shopping Center Orangeburg, New York

Tables





Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-3	3/22/2012	166.67	38.37	128.30	0.9
	6/28/2012	166.67	41.68	124.99	0.3
	8/13/2012	166.67	-	-	0
	8/31/2012	166.67	43.20	123.47	0
	10/1/2012	166.67	42.55	124.12	0
	11/19/2012	166.67	42.47	124.20	0
	1/14/2013	166.67	42.85	123.82	0
	2/28/2013	166.67	42.40	124.27	0
	3/26/2013	166.67	39.30	127.37	0
	4/23/2013	166.67	40.00	126.67	0
	6/25/2013	166.67	36.63	130.04	-
	12/11/2013	166.67	42.39	124.28	-
	1/15/2014	166.67	42.27	124.40	-
	3/5/2014	166.67	38.76	127.91	0
	4/10/2014	166.67	38.76	127.91	0
	5/19/2014	166.67	34.95	131.72	0
	6/18/2014	166.67	35.58	131.09	0
	7/24/2014	166.67	39.60	127.07	0
	10/10/2014	166.67	DRY	-	0
	3/27/2015	166.67	34.02	132.65	0
	5/11/2015	166.67	40.10	126.57	0
	8/17/2015	166.67	42.50	124.17	0
	11/11/2015	166.67	36.14	130.53	0
	3/7/2016	166.67	41.40	125.27	0
	6/23/2016	166.67	42.50	124.17	0
	9/7/2016	166.67	42.07	124.60	0
	11/18/2016	166.67	42.61	124.06	0
	3/3/2017	166.67	40.92	125.75	0
	6/22/2017	166.67	35.79	130.88	0.2
	12/5/2017	166.67	41.17	125.50	0
	3/26/2018	166.67	38.24	128.43	0
	9/19/2018	166.67	33.45	133.22	0
	12/19/2018	166.67	32.99	133.68	0
	3/12/2019	166.67	29.62	137.05	0
	5/13/2019	166.67	29.43	137.24	0
	3/10/2020	166.67	37.69	128.98	0
	4/30/2021	166.67	34.85	131.82	0
MW-4	3/21/2012	165.88	37.50	128.38	4.0
	6/28/2012	165.88	42.15	123.73	0.8
	8/13/2012	165.88	43.75	122.13	0
	8/31/2012	165.88	44.55	121.33	0
	10/1/2012	165.88	46.20	119.68	0
	11/19/2012	165.88	45.60	120.28	0
	1/14/2013	165.88	44.30	121.58	0
	2/28/2013	165.88	42.12	123.76	0
	3/26/2013	165.88	38.85	127.03	0



Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-4	4/23/2013	165.88	39.65	126.23	20.0
(cont.)	6/25/2013	165.88	35.85	130.03	-
	12/11/2013	165.88	46.05	119.83	-
	1/15/2014	165.88	45.41	120.47	-
	3/5/2014	165.88	43.31	122.57	0
	4/10/2014	165.88	38.21	127.67	0
	5/19/2014	165.88	34.18	131.70	0
	6/18/2014	165.88	34.52	131.36	0
	7/23/2014	165.88	37.45	128.43	0
	10/10/2014	165.88	44.53	121.35	0
	1/26/2015	165.88	42.90	122.98	0
	3/27/2015	165.88	38.82	127.06	0
	5/11/2015	165.88	37.76	128.12	0
	8/17/2015	165.88	44.30	121.58	0
	11/11/2015	165.88	45.58	120.30	0
	3/7/2016	165.88	41.30	124.58	0
	6/23/2016	165.88	43.81	122.07	0
	9/7/2016	165.88	46.77	119.11	0
	11/18/2016	165.88	46.44	119.44	0
	3/3/2017	165.88	40.48	125.40	0
	6/22/2017	165.88	35.16	130.72	0.1
	9/7/2017	165.88	43.74	122.14	0
	12/5/2017	165.88	45.80	120.08	0
	3/26/2018	165.88	37.40	128.48	0
	6/7/2018	165.88	36.15	129.73	0
	9/19/2018	165.88	39.00	126.88	0
	12/19/2018	165.88	32.42	133.46	0
	3/12/2019	165.88	28.47	137.41	0
	5/13/2019	165.88	28.21	137.67	0
	3/10/2020	165.88	36.87	129.01	0
	4/30/2021	165.88	34.01	131.87	0
MW-5	3/21/2012	166.70	39.70	127.00	22.6
	6/28/2012	166.70	40.31	126.39	0.6
	8/13/2012	166.70	40.27	126.43	0.7
	8/31/2012	166.70	40.30	126.40	0
	10/1/2012	166.70	40.40	126.30	1.0
	11/19/2012	166.70	40.42	126.28	0
	1/14/2013	166.70	40.25	126.45	0
	2/28/2013	166.70	40.35	126.35	1.7
	3/26/2013	166.70	39.85	126.85	6.9
	4/23/2013	166.70	40.27	126.43	0
	6/25/2013	166.70	37.11	129.59	-
	12/11/2013	166.70	40.65	126.05	-
	1/15/2014	166.70	37.22	129.48	-
	3/5/2014	166.70	40.11	126.59	0
	4/10/2014	166.70	39.41	127.29	0



Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-5	5/19/2014	166.70	34.98	131.72	0
(cont.)	6/18/2014	166.70	35.42	131.28	0
	7/23/2014	166.70	38.44	128.26	0
	10/10/2014	166.70	40.55	126.15	0
	1/26/2015	166.70	39.01	127.69	0
	3/27/2015	166.70	34.77	131.93	0
	5/11/2015	166.70	38.76	127.94	0
	8/17/2015	166.70	41.32	125.38	0
	11/11/2015	166.70	40.81	125.89	0
	3/7/2016	166.70	40.60	126.10	0
	6/23/2016	166.70	41.26	125.44	0
	9/7/2016	166.70	41.16	125.54	0
	11/18/2016	166.70	41.26	125.44	0
	3/3/2017	166.70	40.75	125.95	0
	6/22/2017	166.70	35.65	131.05	0
	9/7/2017	166.70	40.95	125.75	0
	12/5/2017	166.70	41.10	125.60	0
	3/26/2018	166.70	38.64	128.06	0
	6/7/2018	166.70	37.26	129.44	0
	9/19/2018	166.70	35.91	130.79	0
	12/19/2018	166.70	33.70	133.00	0
	3/12/2019	166.70	29.85	136.85	0
	5/13/2019	166.70	29.70	137.00	0
	3/10/2020	166.70	38.08	128.62	0
	4/30/2021	166.70	35.15	131.55	0
MW-6	3/22/2012	166.14	36.85	129.29	0
	6/28/2012	166.14	41.41	124.73	0
	8/13/2012	166.14	41.11	125.03	0
	11/19/2012	166.14	47.15	118.99	0
	3/26/2013	166.14	39.65	126.49	0
	6/25/2013	166.14	36.61	129.53	-
	12/11/2013	166.14	49.83	116.31	-
	3/5/2014	166.14	41.53	124.61	0
	5/19/2014	166.14	34.71	131.43	0
	7/23/2014	166.14	36.50	129.64	0
	3/27/2015	166.14	39.22	126.92	0
MW-7	3/21/2012	171.49	39.30	132.19	0
	6/29/2012	171.49	42.18	129.31	0
	8/13/2012	171.49	46.97	124.52	0
	11/19/2012	171.49	47.80	123.69	0
	3/26/2013	171.49	44.98	126.51	0
	4/23/2013	171.49	42.73	128.76	-
	6/25/2013	171.49	38.30	133.19	-
	12/11/2013	171.49	47.27	124.22	-
	3/5/2014	171.49	46.16	125.33	0
	5/19/2014	171.49	37.32	134.17	0



Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-7	7/23/2014	171.49	39.74	131.75	0
(cont.)	3/27/2015	171.49	44.72	126.77	0
MW-8A	3/21/2012	166.15	41.90	124.25	38.0
	6/28/2012	166.15	42.00	124.15	43.5
	8/13/2012	166.15	DRY	-	34.6
	8/31/2012	166.15	41.80	124.35	24.0
	10/1/2012	166.15	42.10	124.05	12.2
	11/19/2012	166.15	42.40	123.75	39.4
	1/14/2013	166.15	42.95	123.13	0
	2/28/2013	166.15	42.60	123.55	37.6
	3/26/2013	166.15	-	-	0.1
	4/23/2013	166.15	42.05	124.10	35.5
	6/25/2013	166.15	39.95	126.20	-
	12/11/2013	166.15	41.80	124.35	-
	1/15/2014	166.15	42.68	123.47	-
	3/5/2014	166.15	42.63	123.52	0
	4/10/2014	166.15	39.67	126.48	0
	5/19/2014	166.15	42.83	123.32	0
	6/18/2014	166.15	37.12	129.03	0
	7/23/2014	166.15	42.05	124.10	0
	10/10/2014	166.15	DRY	-	0
	3/27/2015	166.15	40.31	125.84	0
	5/11/2015	166.15	42.08	124.07	0
	8/17/2015	166.15	42.30	123.85	0
	11/11/2015	166.15	41.82	124.33	0
	3/7/2016	166.15	41.80	124.35	0
	6/23/2016	166.15	41.91	124.24	0
	9/7/2016	166.15	41.90	124.25	0
	11/18/2016	166.15	41.80	124.35	0
	3/3/2017	166.15	41.72	124.43	0
	6/22/2017	166.15	36.69	129.46	0
	12/5/2017	166.15	41.45	124.70	0
	3/26/2018	166.15	38.91	127.24	0
	9/19/2018	166.15	40.40	125.75	0
	12/19/2018	166.15	33.94	132.21	0
	3/12/2019	166.15	30.30	135.85	0
	5/13/2019	166.15	29.64	136.51	0
	3/10/2020	166.15	38.31	127.84	0
	4/30/2021	166.15	35.56	130.59	0
MW-8B	3/21/2012	166.08	39.13	126.95	14.6
	6/28/2012	166.08	42.55	123.53	5.1
	8/13/2012	166.08	45.30	120.78	0.7
	8/31/2012	166.08	46.40	119.68	0
	10/1/2012	166.08	49.40	116.68	0.1
	11/19/2012	166.08	48.45	117.63	0
	1/14/2013	166.08	47.07	119.01	0

Table 1GROUNDWATER GAUGING



Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-8B	2/28/2013	166.08	44.00	122.08	0
(cont.)	3/26/2013	166.08	40.32	125.76	4.6
	4/23/2013	166.08	40.08	126.00	30.2
	6/25/2013	166.08	37.20	128.88	-
	12/11/2013	166.08	49.63	116.45	-
	1/15/2014	166.08	49.63	116.45	-
	3/5/2014	166.08	45.07	121.01	0
	4/10/2014	166.08	39.69	126.39	0
	5/19/2014	166.08	35.55	130.53	0
	6/18/2014	166.08	36.05	130.03	0
	7/23/2014	166.08	38.95	127.13	0
	10/10/2014	166.08	47.21	118.87	0
	3/27/2015	166.08	40.21	125.87	0
	5/11/2015	166.08	39.15	126.93	0
	8/17/2015	166.08	45.32	120.76	0
	11/11/2015	166.08	41.56	124.52	0
	3/7/2016	166.08	42.85	123.23	0
	6/23/2016	166.08	45.85	120.23	0
	9/7/2016	166.08	DRY	-	0
	11/18/2016	166.08	DRY	-	0
	3/3/2017	166.08	42.11	123.97	0
	6/22/2017	166.08	36.56	129.52	0
MW-10	3/21/2012	137.86	9.37	128.49	0
	6/29/2012	137.86	12.58	125.28	0
	8/13/2012	137.86		122.48	0
	11/19/2012	137.86	18.00	119.86	0
	3/26/2013	137.86	9.90	127.96	0
	6/25/2013	137.86	8.05	129.81	-
	12/11/2013	137.86	19.71	118.15	-
	3/5/2014	137.86	9.33	128.53	0
	4/10/2014	137.86	9.33	128.53	0
	5/19/2014	137.86	5.75	132.11	0
	7/23/2014	137.86	9.87	127.99	0
	10/10/2014	137.86	18.12	119.74	0
	3/27/2015	137.86	9.55	128.31	0
	5/11/2015	137.86	9.92	127.94	0
	8/17/2015	137.86	15.80	122.06	0
	11/11/2015	137.86	21.47	116.39	0
	3/7/2016	137.86	12.46	125.40	0
	6/23/2016	137.86	16.04	121.82	0
	9/7/2016	137.86	20.19	117.67	0
	11/18/2016	137.86	23.55	114.31	0
	3/3/2017	137.86	11.55	126.31	0
	6/22/2017	137.86	8.47	129.39	0
MW-E	12/5/2017	165.03	-	-	-
	3/26/2018	165.03	-	-	-

Table 1GROUNDWATER GAUGING



Orangetown Shopping Center NYSDEC Site # C344066

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Photoionizing Detector Reading (ppm)
MW-E	9/19/2018	165.03	32.37	132.66	0
(cont.)	12/19/2018	165.03	31.61	133.42	0
	3/12/2019	165.03	28.04	136.99	0
	5/13/2019	165.03	28.02	137.01	0
	3/10/2020	165.03	32.70	132.33	0
	4/30/2021	165.03	32.65	132.38	0
MW-14A	12/5/2017	166.49	33.68	132.81	0
	3/26/2018	166.49	34.61	131.88	0
	9/19/2018	166.49	41.25	125.24	0
	12/19/2018	166.49	32.93	133.56	0
	3/12/2019	166.49	-	-	0
	5/13/2019	167.49	27.64	139.85	0
	3/10/2020	167.49	37.91	129.58	0
	4/30/2021	167.49	36.27	131.22	0

Notes:

DRY	= No water in well to gauge
-	= Not available or measured
ft	= feet
ppm	= parts per million
GW	= groundwater
NSD	= No Survey Data
	-



		Tetrachloro-	Trichloro-	cis-1,2- Dichloro-	trans-1,2- Dichloro-	1,1-Dichloro-	Vinyl	
Monitoring		ethene	ethene	ethene	ethene	ethene	Chloride	Ethene
Well	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NY TOGS 1.		5	5	5	5	5	2	NA
MW-3	3/22/2012	ND<5.00 J	ND<5.00 J	60.1	ND<5.00 J	ND<5.00 J	23.4	6.28 B
	6/28/2012	ND<5.00	ND<5.00	143	ND<5.00	ND<5.00	47.5	NA
	8/13/2012	NS	NS	NS	NS	NS	NS	NS
	8/31/2012	NS	NS	NS	NS	NS	NS	NS
	10/1/2012	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	NS	NS	NS	NS	NS	NS	NS
	1/14/2013	NS	NS	NS	NS	NS	NS	NS
	2/28/2013	NS	NS	NS	NS 0.000 J	NS	NS 0.00	NS
	3/26/2013	ND<0.250	0.327 J	2.62	0.269 J	ND<0.250	2.26	ND<2.5
	4/23/2013	NS	NS	NS	NS	NS	NS	NS
	6/25/2013	ND<0.250 NS	ND<0.200 NS	7.02	0.617 J NS	ND<0.250	3.43 NS	ND<2.5 NS
	12/11/2013 1/15/2014	NS	NS NS	NS NS	NS	NS NS	NS	NS
	3/5/2014	NS	NS	NS	NS	NS	NS	NS
	4/10/2014	NS	NS	NS	NS	NS	NS	NS
	4/10/2014 5/19/2014	ND<1.0	ND<1.0	12.6	ND<1.0	ND<1.0	2.2	ND<0.31
	7/24/2014	ND<1.0 ND<1.0	ND<1.0 ND<1.0	12.0	ND<1.0	ND<1.0	2.2 ND<1.0	ND<0.31
	10/10/2014	ND < 1.0	ND 1.0 NS	NS	ND 1.0	ND S	ND S	NS
	3/27/2015	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.31
	5/11/2015	ND<1.0	ND<1.0	8.6	ND<1.0	ND<1.0	2.9	ND<0.31
	8/17/2015	ND<1.0	ND<1.0	2.8	ND<1.0	ND<1.0	3.6	ND<0.31
	11/11/2015	ND<1.0	ND<1.0	7.8	ND<1.0	ND<1.0	ND<1.0	ND<0.31
	3/7/2016	ND<1.0	1.1	NA	NA	NA	6.1	ND<0.31
	6/23/2016	ND<1.0	1.7	14.8	ND<1.0	ND<1.0	ND<1.0	ND<0.31
	9/7/2016	ND<1.0	ND<1.0	15.9	ND<1.0	ND<1.0	18.8	ND<0.31
	11/18/2016	NS	NS	NS	NS	NS	NS	NS
	3/3/2017	ND<1.0	ND<1.0	6.7	ND<1.0	ND<1.0	3.2	ND<0.31
	6/22/2017	ND<1.0	ND<1.0	7.9	ND<1.0	ND<1.0	2.2	0.21
	3/26/2018	ND(<1.0)	ND(<1.0)	1.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/12/2019	ND(<1.0)	ND(<1.0)	1.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/10/2020	ND(<1.0)	ND(<1.0)	1.5	ND(<1.0)	ND(<1.0)	2.0	ND(<0.31)
	4/30/2021	ND(<1.0)	ND(<1.0)	2.0	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
MW-4	3/21/2012		5.28	276	0.680 J	ND<0.500	1.59	ND<2.50
	6/28/2012	ND<0.500	7.71	495	4.29	ND<0.500	21.9	NA
	8/13/2012	ND<1.00	4.51	197	1.16	ND<1.00	8.66	ND<5
	8/31/2012	NS	NS	NS	NS	NS	NS	NS
	10/1/2012	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	ND<1.00	3.48	200	ND<1.00	ND<1.00	13.1	ND<5
	1/14/2013	NS	NS	NS	NS	NS	NS	NS
	2/28/2013	NS	NS	NS	NS	NS	NS	NS
	3/26/2013	ND<0.250	1.20	39.8	0.634 J	ND<0.250	57.7	8.3
	4/23/2013	NS	NS	NS	NS	NS	NS	NS
	6/25/2013	ND<0.250	ND<0.200	3.88	0.288 J	ND<0.250	2.84	6.09
	12/11/2013	NS	NS	NS	NS	NS	NS	NS
	1/15/2014	NS	NS	NS	NS	NS	NS	NS
	3/5/2014	ND<1.00	ND<1.00	4.25	0.336 J	ND<1.00	5.03	ND<5.00
	4/10/2014	NS	NS	NS	NS	NS	NS 25.4	NS 0.40
	5/19/2014	ND<1.0	3.4	104 ND<1.0	ND<1.0	ND<1.0	35.1	0.43
	7/24/2014	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.2	ND<0.31



		Tetrachloro-	Trichloro-	cis-1,2- Dichloro-	trans-1,2- Dichloro-	1,1-Dichloro-	Vinyl	
Monitoring		ethene	ethene	ethene	ethene	ethene	Chloride	Ethene
Well	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
NY TOGS 1.	1.1 GWQS	5	5	5	5	5	2	NA
MW-4	10/10/2014	ND<1.0	ND<1.0	2.3	ND<1.0	ND<1.0	1.8	ND<0.31
(cont.)	3/27/2015	ND<1.0	ND<1.0	3.4	ND<1.0	ND<1.0	5.8	ND<0.31
()	5/11/2015	ND<1.0	ND<1.0	2.1	ND<1.0	ND<1.0	1.7	ND<0.31
	8/17/2015	ND<1.0	ND<1.0	1	ND<1.0	ND<1.0	1.8	ND<0.31
	11/11/2015	ND<1.0	ND<1.0	4	ND<1.0	ND<1.0	ND<1.0	ND<0.31
	3/7/2016	ND<1.0	ND<1.0	13.6	ND<1.0	ND<1.0	2.1	ND<0.31
	6/23/2016	ND<1.0	ND<1.0	12.9	ND<1.0	ND<1.0	3.3	0.97
	9/7/2016	NS	NS	NS	NS	NS	NS	NS
	11/18/2016	ND<1.0	1.3	3.6	ND<1.0	ND<1.0	ND<1.0	NA
	3/3/2017	ND<1.0	ND<1.0	14.6	ND<1.0	ND<1.0	ND<1.0	ND<0.31
	6/22/2017	ND<1.0	1.9	20.6	ND<1.0	ND<1.0	1.0	0.21
	9/7/2017	ND<1.0	ND<1.0	19.1	ND<1.0	ND<1.0	2.4	0.40
	12/5/2017	NA	NA	NA	NA	NA	NA	NA
	3/26/2018	ND(<1.0)	ND(<1.0)	3.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	6/7/2018	ND(<1.0)	1.1	8.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	9/19/2018	ND(<1.0)	ND(<1.0)	21.8	ND(<1.0)	ND(<1.0)	4.1	0.64
	12/21/2018	ND(<1.0)	ND(<1.0)	2.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/12/2019	ND(<1.0)	ND(<1.0)	1.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	5/13/2019	ND(<1.0)	ND(<1.0)	2.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/10/2020	ND(<1.0)	ND(<1.0)	21.5	ND(<1.0)	ND(<1.0)	2.9	ND(<0.31)
	4/30/2021	ND(<1.0)	ND(<1.0)	3.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
MW-5	3/21/2012	ND<0.500	3.86	12,500	195	1.42	1,490	92.9
	6/28/2012	ND<0.500	7.93	9,000	55.7	1.32	1,100	NA
	8/13/2012	ND<1.00	28.4	7,410	145	1.02	928	76.6
	8/31/2012	NS	NS	NS	NS	NS	NS	NS
	10/1/2012	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	ND<1.00	17.8	1,630	73.6	ND<1.00	489	192 NO
	1/14/2013	NS	NS	NS	NS	NS	NS	NS
	2/28/2013	NS	NS 0.40	NS	NS 0.40	NS	NS	NS
	3/26/2013	2.17	8.19	389	3.40	1.29	30.9	7.12
	4/23/2013	NS	NS 16.6	NS 070	NS 17.0	NS	NS	NS
	6/25/2013 12/11/2013	ND<2.50 3.15 J	16.6 17.7	972 1,290	17.0 48.0	ND<2.50 ND<10.0	60.0 302	5.41 NA
	1/15/2014	NS	NS	NS	48.0 NS	ND<10.0	NS	NA
	3/5/2014	3.49 J	3.45 J	142	3.15 J	ND<10.0	19.0	6.37
	4/10/2014	0.49 0 NS	0.40 J NS	NS	NS	NS	NS	NS
	5/19/2014	2.4	9.2	598	3.8	ND<1.0	33.0	0.79
	7/24/2014	ND<5.0	8.7	575	ND<5.0	ND<5.0	39.6	3.00
	10/10/2014	ND<10	ND<10	1,690	ND<10	ND<10	108	1.3
	3/27/2015	2.8	4.8	247	1.4	ND<1.0	13	0.22
	5/11/2015	2.9	7.0	458	3.7	ND<1.0	40.9	ND<0.31
		_·•			ND<5.0	ND<5.0		
		ND<5.0	9.6	783	0.6~UN	110~3.0	41.3	0.32
	8/17/2015	ND<5.0 ND<5.0	9.6 19.8	783 1,390			41.3 45.7	0.32 ND<0.31
			9.6 19.8 20.9	1,390	7.7 8.6	ND<5.0 ND<5.0 ND<1.0	41.3 45.7 62.7	0.32 ND<0.31 ND<0.31
	8/17/2015 11/11/2015	ND<5.0	19.8		7.7	ND<5.0	45.7	ND<0.31
	8/17/2015 11/11/2015 3/7/2016	ND<5.0 1.9	19.8 20.9	1,390 2,140	7.7 8.6	ND<5.0 ND<1.0	45.7 62.7	ND<0.31 ND<0.31
	8/17/2015 11/11/2015 3/7/2016 6/23/2016	ND<5.0 1.9 ND<10	19.8 20.9 25.5	1,390 2,140 1,910	7.7 8.6 13.7	ND<5.0 ND<1.0 ND<10	45.7 62.7 39.7	ND<0.31 ND<0.31 6



				aia 4.0	4110110 4 0				1
Monitoring Well	Date	Tetrachloro- ethene (ug/l)	Trichloro- ethene (ug/l)	cis-1,2- Dichloro- ethene (ug/l)	trans-1,2- Dichloro- ethene (ug/l)	1,1-Dichloro- ethene (ug/l)	Vinyl Chloride (ug/l)	Ethene (ug/l)	
NY TOGS 1.	1.1 GWQS	5	5	5	5	5	2	NA	
MW-5	6/22/2017	ND<1.0	9.3	504	5.2	ND<1.0	39.7	6.2	
(cont.)	9/7/2017	1.2	12.8	597	7.8	ND<1.0	37.0	7.0	
Ϋ́Υ, Ϋ́Υ,	12/5/2017	ND < 5.0	11.1	608	ND < 5.0	ND < 5.0	23.4	2.2	
	3/26/2018	ND(<5.0)	21.3	1,640	7.2	ND(<5.0)	81.5	3.5	
	6/7/2018		9.8	758	6.0	ND(<5.0)	136	47.6	
	9/19/2018		17.0	893	8.6	ND(<2.0)	38.1	6.5	
	12/21/2018	1.6	23.5	766	4.0	ND(<1.0)	176	4.1	
	3/12/2019	ND(<1.0)	2.2	26	1.8	ND(<1.0)	17.8	17.1	
	5/13/2019	ND(<1.0)	4.0	156	4.5	ND(<1.0)	224	3.7	
	3/10/2020		8.2	115	3.7	ND(<1.0)	33.7	7.1	
	4/30/2021	ND(<1.0)	5.3	80.1	2.4	ND(<1.0)	4.0	0.92	F
MW-8A	3/21/2012	NS	NS	NS	NS	NS	NS	NS	i —
	6/28/2012	1.20	46.2	786	8.66	ND<0.500	29.4	NA	
	8/13/2012	NS	NS	NS	NS	NS	NS	NS	
	8/31/2012	NS	NS	NS	NS	NS	NS	NS	
	10/1/2012	NS	NS	NS	NS	NS	NS	NS	
	11/19/2012	NS	NS	NS	NS	NS	NS	NS	
	1/14/2013	NS	NS	NS	NS	NS	NS	NS	
	2/28/2013	NS	NS	NS	NS	NS	NS	NS	
	3/26/2013	NS	NS	NS	NS	NS	NS	NS	
	4/23/2013	NS	NS	NS	NS	NS	NS	NS	
	6/25/2013	ND<0.250	14.8	358	4.17	ND<0.250	59.3	NA	
	12/11/2013	ND<1.00	ND<1.00	7.70	0.300 J	ND<1.00	0.665 J	NA	
	1/15/2014	NS	NS	NS	NS	NS	NS	NS	
	3/5/2014	NS	NS	NS	NS	NS	NS	NS	
	4/10/2014	NS	NS	NS	NS	NS	NS	NS	
	5/19/2014	NS	NS	NS	NS	NS	NS	NS	
	7/24/2014	NS	NS	NS	NS	NS	NS	NS	
	10/10/2014	NS	NS	NS	NS	NS	NS	NS	
	3/27/2015		3.4	17.4	ND<1.0	ND<1.0	ND<1.0	NS	
	3/27/2015	NS	NS	NS	NS	NS	NS	NS	
	8/17/2015		NS	NS	NS	NS	NS	NS	
	11/11/2015		ND<1.0	2.4	ND<1.0	ND<1.0	ND<1.0	NA	
	3/7/2016		ND<1.0	3.2	ND<1.0	ND<1.0	3.2	NA	
	9/7/2016		1.3	2.1	ND<1.0	ND<1.0	2.2	NA	
	11/18/2016		1.3	2.8	ND<1.0	ND<1.0	4.4	NA	
	3/3/2017		1.3	ND<1.0	ND<1.0	ND<1.0	4	NA	
	6/22/2017	ND<1.0	7.4	26.9	ND<1.0	ND<1.0	1.6	ND<0.31	
	3/26/2018	· · ·	1.9	1.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)	
	3/12/2019	· · ·	9.2	9.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	
	5/13/2019		NA	NA	NA	NA	NA	ND(<0.31)	
	3/10/2020		5.5	2.7	1.1	ND(<1.0)	ND(<1.0)	ND(<0.31)	=
	4/30/2021	ND(<1.0)	5.7	5.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)	1
MW-E	6/28/2012		NS	NS	NS	NS	NS	NS	
	8/13/2012	ND<1.00 U	ND<1.00 U	7.63	ND<1.00 U	ND<1.00 U	6.75	ND<5 U	
	8/31/2012		NS	NS	NS	NS	NS	NS	
	10/1/2012		NS NS	NS	NS	NS	NS	NS	
	11/19/2012	NS	NS	NS	NS	NS	NS	NS	<u>l</u>



Orangetown Shopping Center NYSDEC Site # C344066

Monitoring Well	Date	Tetrachloro- ethene (ug/l)	Trichloro- ethene (ug/l)	cis-1,2- Dichloro- ethene (ug/l)	trans-1,2- Dichloro- ethene (ug/l)	1,1-Dichloro- ethene (ug/l)	Vinyl Chloride (ug/l)	Ethene (ug/l)
NY TOGS 1.	1.1 GWQS	5	5	5	5	5	2	NA
MW-E	1/14/2013	NS	NS	NS	NS	NS	NS	NS
(cont.)	2/28/2013	NS	NS	NS	NS	NS	NS	NS
	3/26/2013	ND<0.250 U	0.275 J	2.36	ND<0.230 U	ND<0.250 U	1.51	ND<2.5 U
	4/23/2013	NS	NS	NS	NS	NS	NS	NS
	6/25/2013	ND<0.250 U	0.780 J	20.9	0.760 J	ND<0.250 U	8.86	ND<2.5 U
	12/11/2013	ND<1.00 U	0.371 J	2.94	0.256 J	ND<1.00 U	1.48	NA
	3/26/2018	ND(<1.0)	ND(<1.0)	4.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/12/2019	ND(<1.0)	ND(<1.0)	1.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<0.31)
	3/10/2020	ND(<1.0)	ND(<1.0)	11.1	ND(<1.0)	ND(<1.0)	2.6	ND(<0.31)
	4/30/2021	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND<(1.0)	ND(<0.31)

Notes:

µg/L	= Micrograms/liter
BDL	= Below Detection Limit
DRY	= No water for sampling
GWQS	= Groundwater Quality Standards
NA	= Not Available or not analyzed for that specific compound
ND	= Not detected (# is method detection limit)
J	= Estimated Value
NS	= Not sampled
NY	= New York
TOGS	= Technical and Operational Guidance Series 1.1.1

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Table 3 GENERAL GROUNDWATER CHEMISTRY



				Specific Conductivity		Oxygen Reduction	
Monitoring Well	Date	рН	Temperature (°C)	(uS/cm or umhos/cm)	Oxygen (mg/L)	Potential (mV)	Turbidity (NTUs)
MW-3	03/26/2018	6.30	10.42	1,987	1.07	-97.6	NA
	03/12/2019	7.56	11.46	1,970	2.58	-71.1	87.9
	03/10/2020	6.37	15.49	1,454	2.77	8.7	149
	04/30/2021	6.39	15.98	1,069	1.46	-78.8	32.9
MW-4	03/21/2012	7.31	15.25	1,400	1.09	147.0	6.2
	06/28/2012	6.69	19.46	764	3.61	47.9	28.1
	08/13/2012	6.59	17.75	1,621	6.21	9.1	152.1
	08/31/2012	6.07	17.45	1,450	1.08	-21.4	NA
	11/19/2012	6.32	11.63	1,126	1.59	70.6	85.28
	01/14/2013	6.36	14.62	1,486	1.75	-56.9	NA
	02/28/2013	6.51	13.92	2,014	1.45	-35.1	NA
	03/26/2013	5.90	14.32	2,212	2.16	-49.0	64.7
	04/23/2013	6.54	13.31	1,685	2.02	-24.1	NA
	06/25/2013	6.51	18.03	1,982	0.82	-70.1	55.5
	08/09/2013	6.18	17.27	1,872	1.43	-39.3	NA
	09/19/2013	6.22	14.79	2,101	0.55	-72.5	143.3
	01/15/2014	6.11	14.74	10,411	0.91	-26.4	NA
	03/05/2014	6.01	12.86	3,755	1.70	-52.2	22.4
	05/19/2014	6.28	18.76	1,300	13.01	-54.8	21.8
	06/18/2014	7.23	17.09	2,770	1.73	-29.6	NA
	07/24/2014	6.32	14.92	2,284	0.89	-155.1	9.47
	10/10/2014	6.64	19.02	2,345	1.50	-34.8	20.30
	01/26/2015	6.49	12.42	5,329	2.80	-118.7	NA
	03/27/2015	6.78	12.84	2,480	0.82	-213.0	NA
	05/11/2015	6.60	17.24	2,328	2.78	-142.2	NA
	08/17/2015	6.51	15.91	4,455	0.52	-121.9	NA
	11/11/2015	6.48	14.20	2,059	1.40	-71.1	NA
	03/07/2016	6.78	14.73	1,882	1.07	-13.5	NA
	06/23/2016	6.18	18.79	1,936	0.35	-38.5	NA
	09/07/2016	NA	NA	NA	NA	NA	NA
	11/18/2016	NA	NA	NA	NA	NA	NA
	03/03/2017	6.66	10.53	1,639	1.58	-70.2	NA
	06/22/2017	6.52	19.31	1,714	0.68	79.9	NA
	09/07/2017	6.46	16.09	1,743	0.62	71.2	NA
	12/05/2017	6.39	14.36	2,056	5.75	-48.5	NA
	03/26/2018	6.60	10.12	1,650	1.39	-69.9	NA
	06/07/2018	6.57	15.80	1,720	4.90	179.9	NA
	09/19/2018	6.50	18.42	1,890	1.72	130.7	153.6
	12/21/2018	5.87	14.19	105	10.25	212.1	0.0
	03/12/2019	6.44	11.13	2,606	2.45	242.0	295.3
	05/13/2019	6.69	14.30	8,784	2.90	240.0	101.6
	03/10/2020	6.36	15.28	1,717	2.08	495.8	341.6
	04/30/2021	6.48	15.35	2,382	2.34	45.1	98.3
MW-5	03/21/2012	7.37	16.16	3,900	3.06	-30.0	0.0
1VI V = J	06/28/2012	6.88	22.10	3,900 1,399	3.00 1.74	-30.0	29.6
	08/13/2012 08/31/2012	6.43 6.25	19.91 20.12	2,188 1,580	1.54 2.22	-17.6 -22.5	88.0 NA

Table 3 GENERAL GROUNDWATER CHEMISTRY



Monitoring Well MW-5 (cont.)	Date 10/01/2012 11/19/2012	рН	Temperature		Dissolved	Reduction	
MW-5	10/01/2012	рН		(uS/cm or	Oxygen	Potential	Turbidity
			(°C)	umhos/cm)	(mg/L)	(mV)	(NTUs)
(cont.)	11/19/2012	6.19	17.02	2,433	1.36	3.8	NA
	11/10/2012	6.60	14.24	13,900	1.27	70.4	1025
	01/14/2013	6.38	15.36	8,535	0.95	-103.6	NA
	02/28/2013	6.67	14.21	5,230	2.06	-63.4	NA
	03/26/2013	6.91	13.16	6,468	1.02	-27.6	171.6
	04/23/2013	6.85	14.40	6,231	1.56	-71.2	NA
	06/25/2013	6.82	20.21	8,587	0.82	-87.2	77.7
	08/09/2013	6.75	17.51	7,434	1.88	-71.7	NA
	09/19/2013	6.56	16.06	7,413	0.94	-118.8	87.9
	10/14/2013	6.51	15.93	3,671	3.55	-66.8	104.3
	12/11/2013	6.59	11.53	8,003	5.48	-135.6	52.0
	01/15/2014	6.63	12.97	19,214	1.45	-123.4	NA
	03/05/2014	6.61	11.20	14,120	0.21	-73.3	203.7
	04/10/2014	6.54	15.05	10,980	1.59	-65.5	NA
	05/19/2014	6.76	16.82	10,036	0.96	-41.4	43.0
	06/18/2014	7.94	17.14	14,984	1.00	-90.4	NA
	07/24/2014	6.72	15.85	1,271	0.51	-113.5	35.3
	10/10/2014	6.82	17.40	1,477	0.50	-66.9	147.6
	01/26/2015	6.59	9.46	17,539	1.30	-133.8	NA
	03/27/2015	7.17	12.35	15,077	0.51	-211.1	NA
	05/11/2015	6.67	24.60	16,764	0.41	-156.9	NA
	08/17/2015	6.56	16.29	9,737	0.21	-118.1	NA
	11/11/2015	6.57	13.80	9,937	1.57	-101.0	NA
	03/07/2016	7.92	14.53	2,299	1.34	-70.5	NA
	06/23/2016	6.35	17.55	11,200	0.70	-62.1	NA
	09/07/2016	5.87	17.18	11,010	0.81	-78.9	NA
	11/18/2016	6.62	15.34	6,687	0.20	-11.5	NA
	03/03/2017	6.39	10.48	6,571	0.87	-63.8	NA
	06/22/2017	6.66	18.33	10,841	0.04	-110.6	NA
	09/07/2017	6.43	17.19	10,140	0.95	-75.7	NA
	12/05/2017	6.36	14.53	6,257	4.28	-83.8	NA
	03/26/2018	6.41	10.60	5,702	1.19	-61.1	NA
	06/07/2018	6.54	15.78	8.579	4.28	-22.6	NA
	9/19/2018	6.62	17.55	7,643	1.82	-61.2	142.5
	12/21/2018	6.69	11.49	4,205	1.64	8.2	9.8
	3/12/2019	6.38	12.47	2,796	1.58	-59.2	100.8
	5/13/2019	6.31	14.09	2,764	1.50	-58.4	43.6
	3/10/2020	6.57	15.45	11,580	1.86	-30.4 18.9	49.7
	4/30/2021	6.34	16.35	13,380	1.96	-57.9	55.7
MW-8A	03/26/2018	6.41	10.56	2,980	1.10	-69.6	NA
	03/20/2018	6.75	12.96	2,500	4.91	-09.0 9.2	120.6
	05/12/2019	6.65	12.90	2,896	3.89	9.2 56.1	34.6
	03/10/2020	6.55	14.41	2,890 1,501	2.55	279.8	161.7
	03/10/2020	6.63	16.30	2,245	2.55	-10.6	29.7
MW-E	03/26/2018			2,243 NA		-10.0 NA	
	03/26/2018 03/12/2019	NA 6.37	NA 12.50	NA 8,923	NA 1.56	NA 168.7	NA 331.4

Table 3 GENERAL GROUNDWATER CHEMISTRY



Orangetown Shopping Center NYSDEC Site # C344066

Monitoring Well	Date	рН	Temperature (°C)	Specific Conductivity (uS/cm or umhos/cm)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (mV)	Turbidity (NTUs)
MW-E	03/10/2020	6.15	15.30	292	2.10	382.4	927
(cont.)	04/30/2021	6.64	15.63	2,111	1.83	-4.1	301.2

Notes:

mg/L	= Milligrams per Liter
uS/cm	= Micro-Siemens per centimeter
umhos/cm	= Micro-mhos/centimeter
mV	= Millivolts
Spec.Cond.	= Specific conductance
°C	= Degrees Celsius
pН	= Potential of Hydrogen
NA	= Not Available or Measured
NTUs	= Nephelometric Turbidity Units

Table 4 GENERAL CHEMISTRY ANALYTICAL RESULTS



Monitoring Well	Date	Iron, Ferric (mg/l)	Iron, Ferrous (mg/l)	Iron, Total (mg/l)	Nitrate Nitrogen (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)	Ethene (mg/l)
NY TOGS 1.		NA	NA	NA	NA	NA	NA	NA
MW-3	3/26/2018		0.21	6.71	0.14	13.3	5.8	ND(<0.31)
_	3/12/2019		ND(<0.20)	18.7	ND(<0.11)	6.7	6	ND(<0.00031)
	3/10/2020		ND(<0.20)	16.2	Ò.19 ´	23.4	14.0	ND(<0.00031)
	4/30/2021	3.5	2.6	6.090	ND(<0.11)	4.7	3.8	ND(<0.00031)
MW-4	3/21/2012		ND<50.0 J	0.0560	0.993	24.9	1.16	ND<0.00250
	6/28/2012	NA	NA	NA	NA	NA	4.13 B	NA
	8/13/2012	NA	7.01	6.97	NA	28.9	NA	ND<0.005
	8/31/2012	NA	NA	NA	NA	NA	5.87	NA
	10/1/2012	NS	NS	NS	NS	NS	NS	NS
	11/19/2012	NA	NA	NA	NA	NA	NA	ND<0.005
	1/14/2013	NA	NA	NA	NA	NA	10.9	NA
	2/28/2013	NA	NA	NA	NA	NA	3.8	NA
	3/26/2013	0.300	10.6	10.3	NA	12.2	399 B	0.0083
	4/23/2013	NA	NA	NA	NA	NA	149	NA
	6/25/2013		12.1	13.8	NA	ND<0.6	103	0.00609
	12/11/2013		NS	NS	NS	NS	NS	NS
	1/15/2014	NA	NA	NA	NA	NA	101	NA
	3/5/2014		NA	4.03 B	NA	27.4	5.31	ND<0.00500
	4/10/2014	NA	NA	NA	NA	NA	18.1	NA
	5/19/2014	4.1	ND<0.20	4.23	ND<0.11	10.6	23.7	0.00043
	6/18/2014	NA	NA	NA	NA	NA	287	NA
	7/24/2014	3.4	2.41	5.81	ND<0.10	ND<10	49.5	ND<0.00031
	10/10/2014	NA	NA	NA	ND<0.10	ND<10	67.4	ND<0.00031
	1/26/2015	NA	NA	NA	NA	NA	14.9	NA
	3/27/2015		0.50	3.83	ND<0.10	ND<10	13.3	ND<0.00031
	5/11/2015	3.4	ND<0.20	3.60	0.23	20.9	12.0	ND<0.00031
	8/17/2015	NA	1.8	NA	ND<0.11	12	10.9	ND<0.00031
	11/11/2015	NA	NA	NA	NA	NA	NA	ND<0.00031
	3/7/2016		ND<0.20	2.2	ND<0.11	32.6	5.0	ND<0.00031
	6/23/2016		1.1	17	ND<0.11	33.4	5.4	0.00097
	9/7/2016		NS	NS	NS	NS	NS	NS
	11/18/2016		NS	NS	NS	NS	NS	NS
	3/3/2017	2.4	ND<0.20	2.4	0.13	43.7	3.1	ND<0.00031
	6/22/2017		ND<0.20	4.620	0.62	29.5	2.4	0.21
	9/7/2017		NA	NA	NA	NA	3.5	0.40
	12/5/2017		NA	NA	NA	NA	NA	NA
	3/26/2018		ND(<0.20)	6.710	ND(<0.010)	32.1	3.6	ND(<0.00031)
	6/7/2018		NA	NA	NA	NA	3.0	ND(<0.00031)
	9/19/2018		NA	NA	NA	NA	3.3	0.64
	12/21/2018		NA	NA	NA	NA	ND(<1.0)	ND(<0.00031)
	3/12/2019		ND(<0.20)	8.370	2.1	32.8	2.0	ND(<0.00031)
	5/13/2019		ND(<0.20)	2.080	0.78	6.7	1.5	ND(<0.00031)
	3/10/2020		ND(<0.20)	6.070	ND(<0.11)	21.6	4.9	ND(<0.00031)
	4/30/2021	6.9	ND(<0.20)	7.020	1.1	30.8	3.1	ND(<0.00031)
MW-5	3/21/2012		0.253 J	2.52	ND<0.0500	7.65	3.92	0.0929
	6/28/2012		NA	NA	NA	NA	3.5 B	NA
	8/13/2012		3.37	4.1	NA	10.1	NA	0.0766
	8/31/2012		NA	NA	NA	NA	39.5	NA
	10/1/2012		NA	NA	NA	NA	66.1	NA
	11/19/2012	0.430	6.74	7.17	NA	26.5	377	0.192

Table 4 GENERAL CHEMISTRY ANALYTICAL RESULTS



Monitoring Well	Date	Iron, Ferric (mg/l)	Iron, Ferrous (mg/l)	Iron, Total (mg/l)	Nitrate Nitrogen (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)	Ethene (mg/l)
NY TOGS 1.	1.1 GWQS	NA	NA	NA	NA	NA	NA	NA
MW-5	1/14/2013	NA	NA	NA	NA	NA	105	NA
(cont.)	2/28/2013	NA	NA	NA	NA	NA	86.6	NA
	3/26/2013	4.10	12.5	16.6	NA	15.9	104 B	0.00712
	4/23/2013	NA	NA	NA	NA	NA	129 B	NA
	6/25/2013	0.900	9.03	8.13	NA	1.47	165	0.00541
	12/11/2013	ND<0.100	NA	3.75	NA	12.8	213	NA
	1/15/2014	NA	NA	NA	NA	NA	480	NA
	3/5/2014	5.80	NA	16.5 B	NA	1.69	NA	0.00637
	4/10/2014	NA	NA	NA	NA	NA	121	NA
	5/19/2014	13.6	4.4	18	ND<0.15	14.0	319	0.00079
	6/18/2014	NA	NA	NA	NA	NA	293	NA
	7/24/2014	13.7	2	15.70	ND<0.10	ND<10	184	ND<0.00030
	10/10/2014	NA	NA	NA	ND<0.10	12.0	NA	0.0013
	10/10/2014	NA	NA	NA	ND<0.10 NA	NA	140	0.0013
	1/26/2014	NA	NA	NA	NA	NA	295	0.0013 NA
	3/27/2015	31.0	1.9	32.9	ND<0.10	94.6	250	0.00022
	5/11/2015	NS	5.8	NS	ND<0.11	ND<200	251	ND<0.00031
	8/17/2015	8.3	3.5	11.8	ND<0.11	ND<10	125	0.83
	11/11/2015	8.9	0.9	9.8	0.02	ND<10	113	ND<0.00031
	3/7/2016	61.1	18	79.1	ND<0.11	ND<10	234	ND<0.00031
	6/23/2016	14.6	3.9	18.5	ND<0.11	23.7	173	0.0006
	9/7/2016	4.3	9.8	14.1	0.23	ND<10	87.4	0.0023
	11/18/2016	3.3	3.1	6.41	ND<0.11	ND<10	125.0	ND<0.00031
	3/3/2017	11.6	19	30.6	ND<0.010	ND<10	44.4	0.00041
	6/22/2017	19.0	13.5	32,500	ND<0.11	5.8	87.8	6.2
	9/7/2017	NA	NA	NA	NA	NA	157.0	7.0
	12/5/2017	NA	NA	NA	NA	NA	121	2.2
	3/26/2018	7.6	5.1	12.7	0.011	6.6	96.6	3.5
	6/7/2018	NA	NA	NA	NA	NA	63.3	47.6
	9/19/2018	NA	NA	NA	NA	NA	95.7	6.5
	12/21/2018	NA	NA	NA	NA	NA	29.6	0.0041
	3/12/2019	20.7	7.7	28.4	ND(<0.11)	10	128	0.0171
	5/13/2019	97.5	ND(<0.20)	97.5	ND(<0.11)	34.3	20.4	0.0037
	3/10/2020		8.5	24.8	ND(<0.11)	14.0	44.6	0.0071
	4/30/2021	7.0	18.7	25.7	0.22	18.1	16.4	0.00092
MW-8A	3/26/2018		ND(<0.20)	26.2	0.38	19.0	4.9	ND(<0.31)
	5/13/2019		ND(<0.20)	25.3	1.2	6.9	1.7	ND(<0.00031)
	3/10/2020	10.6	ND(<0.20)	10.6	0.59	12.1	2.1	ND(<0.00031)
	4/30/2021	14.1	2.3	16.4	1.3	17.0	2.5	ND(<0.00031)
MW-E	3/26/2018	1,030	0.64	1,030.64	2.7	45.9	9.4	ND(<0.31)
	3/12/2019	35.4	ND(<0.20)	35.5	0.63	28.8	10.2	ND(<0.00031)

Table 4 GENERAL CHEMISTRY ANALYTICAL RESULTS



Orangetown Shopping Center NYSDEC Site # C344066

Monitoring Well	Date	Iron, Ferric (mg/l)	lron, Ferrous (mg/l)	Iron, Total (mg/l)	Nitrate Nitrogen (mg/l)	Sulfate (mg/l)	Total Organic Carbon (mg/l)	Ethene (mg/l)
NY TOGS 1.	1.1 GWQS	NA	NA	NA	NA	NA	NA	NA
MW-E (cont.)	3/10/2020 4/30/2021		ND(<0.20) 28.6	1,310 210	179 ND(<0.11)	27.5 23.6	7.1 15.9	ND(<0.00031) ND(<0.00031)

Notes:

mg/L = Milligrams per liter (parts per million)

- NA = Not available/not analyzed for that specific compound
- ND = Not detected (# is method detection limit)
- J* = Holding time for this test is immediate
- HF = Field parameter with holding time of 15 minutes
- B1 = Analyte was detected in the associated method blank. Analyte concentration in the sample
- is greater than 10x the concentration found in the method blank.
- B = Analyte was detected in associated method blank

NY = New York

TOGS = Technical and Operational Guidance Series 1.1.1

GWQS = Groundwater Quality Standards or Guidance Values

Table 5 SVI STUDY ANALYTICAL RESULTS SUMMARY



Orangetown Shopping Center NYSDEC Site # C44066

Client Sample ID:	OUTSIDE	VP-6	VP-6	VP-5	VP-5	REG	ULATORY GUIDA	NCE
Lab Sample ID:	JD18853-5	JD18853-3	JD18853-4	JD18853-1	JD18853-2	NYSDOH 2003	NYSDOH 2003	
Date Sampled:	1/7/2021	1/7/2021	1/7/2021	1/7/2021	1/7/2021	Soil Vapor	Soil Vapor Intrusion Air	EPA 2001 BASE 90th
Matrix:	Ambient Air	Soil Vapor	Ambient Air	Soil Vapor	Ambient Air	Indoor 95th	Guidance Value	
	Comp.	Comp.	Comp.	Comp.	Comp.	Percentile (1)	(2)	
Acetone	12	24.2	24	42.3	19	140	NS	98.9
1,3-Butadiene	ND<(0.49)	ND<(0.44)	ND<(0.35)	ND<(0.44)	ND<(0.35)	NS	NS	<3.0
Benzene	1.3	ND<(0.64)	ND<(0.51)	0.67	ND<(0.51)	29	NS	9.4
Bromodichloromethane	ND<(0.74)	ND<(0.67)	ND<(0.54)	ND<(0.67)	ND<(0.54)	NS	NS	NS
Bromoform	ND<(0.45)	ND<(0.41)	ND<(0.33)	ND<(0.41)	ND<(0.33)	NS	NS	NS
Bromomethane	ND<(0.85)	ND<(0.78)	ND<(0.62)	ND<(0.78)	ND<(0.62)	0.9	NS	<1.7
Bromoethene	ND<(0.96)	ND<(0.87)	ND<(0.70)	ND<(0.87)	ND<(0.70)	NS	NS	NS
Benzyl Chloride	ND<(1.1)	ND<(1.0)	ND<(0.82)	ND<(1.0)	ND<(0.82)	NS	NS	<6.8
Carbon disulfide	ND<(0.69)	ND<(0.62)	ND<(0.50)	ND<(0.62)	ND<(0.50)	NS	NS	4.2
Chlorobenzene	ND<(1.0)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	<0.25	NS	<0.9
Chloroethane	ND<(0.58)	ND<(0.53)	ND<(0.42)	ND<(0.53)	ND<(0.42)	0.6	NS	<1.1
Chloroform	ND<(1.1)	ND<(0.98)	ND<(0.78)	ND<(0.98)	ND<(0.78)	4.6	NS	1.1
Chloromethane	2.3	1.1	1.5	0.45	1.4	5.2	NS	3.7
3-Chloropropene	ND<(0.69)	ND<(0.63)	ND<(0.50)	ND<(0.63)	ND<(0.50)	NS	NS	NS
2-Chlorotoluene	ND<(1.1)	ND<(1.0)	ND<(0.83)	ND<(1.0)	ND<(0.83)	NS	NS	NS
Carbon tetrachloride	0.88	ND<(0.25)	0.52	ND<(0.25)	0.50	1.1	NS	<1.3
Cyclohexane	ND<(0.76)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	19	NS	NS
1,1-Dichloroethane	ND<(0.89)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	<0.25	NS	<0.7
1,1-Dichloroethylene	ND<(0.17)	ND<(0.16)	ND<(0.13)	ND<(0.16)	ND<(0.13)	<0.25	NS	<1.4
1,2-Dibromoethane	ND<(0.85)	ND<(0.77)	ND<(0.61)	ND<(0.77)	ND<(0.61)	<0.25	NS	<1.5
1,2-Dichloroethane	ND<(0.89)	ND<(0.81)	ND<(0.65)	ND<(0.81)	ND<(0.65)	<0.25	NS	<0.9
1,2-Dichloropropane	ND<(1.0)	ND<(0.92)	ND<(0.74)	ND<(0.92)	ND<(0.74)	<0.25	NS	<1.6
1,4-Dioxane	ND<(0.79)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	NS	NS	NS
Dichlorodifluoromethane	4.9	3.0	2.7	2.8	2.6	26	NS	16.5
Dibromochloromethane	ND<(0.94)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	NS	NS	NS
trans-1,2-Dichloroethylene	ND<(0.87)	ND<(0.79)	ND<(0.63)	ND<(0.79)	ND<(0.63)	NS	NS	NS
cis-1,2-Dichloroethylene	ND<(0.17)	0.87	0.52	4.4	2.7	1.2	NS	<1.9
cis-1,3-Dichloropropene	ND<(1.0)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	<0.25	NS	<2.3
m-Dichlorobenzene	ND<(0.66)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	1	NS	<2.4
o-Dichlorobenzene	ND<(0.26)	ND<(0.24)	ND<(0.19)	ND<(0.24)	ND<(0.19)	0.9	NS	<1.2
p-Dichlorobenzene	ND<(0.66)	ND<(0.60)	ND<(0.48)	ND<(0.60)	ND<(0.48)	2.6	NS	5.5
trans-1,3-Dichloropropene	ND<(1.0)	ND<(0.91)	ND<(0.73)	ND<(0.91)	ND<(0.73)	<0.25	NS	<1.3
Ethanol	29.0	430 E	1,060 E	405 a	1,280 E	NS	NS	210
Ethylbenzene	ND<(0.96)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	13.0	NS	5.7
Ethyl Acetate	ND<(0.79)	19	1.3	74.9	3.2	NS	NS	5.4
4-Ethyltoluene	ND<(1.1)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	NS	NS	NS
Freon 113	0.84	1.4	ND<(0.61)	ND<(0.77)	ND<(0.61)	NS	NS	3.5
Freon 114	ND<(0.77)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	NS	NS	NS
Heptane	ND<(0.90)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	NS	NS	NS
Hexachlorobutadiene	ND<(1.1)	ND<(0.96)	ND<(0.77)	ND<(0.96)	ND<(0.77)	11.0	NS	<6.8
Hexane	1.9	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	NS	NS	NS
2-Hexanone	ND<(0.90)	ND<(0.82)	ND<(0.65)	ND<(0.82)	ND<(0.65)	NS	NS	NS
Isopropyl Alcohol	8.6	438 E	248 E	216 a	234 E	NS	NS	250
Methylene chloride	10	1.1	0.59	ND<(0.69)	0.76	45.0	60	10
Methyl ethyl ketone	0.80	0.94	ND<(0.47)	29.8	0.53	39.0	NS	NS
Methyl Isobutyl Ketone	ND<(0.90)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	5.3	NS	NS
Methyl Tert Butyl Ether	ND<(0.79)	ND<(0.72)	ND<(0.58)	ND<(0.72)	ND<(0.58)	71.0	NS	11.5
Methylmethacrylate	ND<(0.90)	ND<(0.82)	ND<(0.66)	ND<(0.82)	ND<(0.66)	1.1	NS	NS
Propylene	ND<(0.94)	1.1	1.9	ND<(0.86)	ND<(0.69)	NS	NS	NS

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Table 5 SVI STUDY ANALYTICAL RESULTS SUMMARY



Orangetown Shopping Center NYSDEC Site # C44066

Client Sample ID:	OUTSIDE	VP-6	VP-6	VP-5	VP-5	REGULATORY GUIDANCE		
Lab Sample ID:	JD18853-5	JD18853-3	JD18853-4	JD18853-1	JD18853-2	NYSDOH 2003	NYSDOH 2003 NYSDOH 2003	
Date Sampled:	1/7/2021	1/7/2021	1/7/2021	1/7/2021	1/7/2021	Soil Vapor	Soil Vapor Intrusion Air	EPA 2001 BASE 90th
Matrix:	Ambient Air	Soil Vapor	Ambient Air	Soil Vapor	Ambient Air	Indoor 95th	Guidance Value	
Matrix.	Comp.	Comp.	Comp.	Comp.	Comp.	Percentile (1)	(2)	
Styrene	ND<(0.94)	ND<(0.85)	ND<(0.68)	ND<(0.85)	ND<(0.68)	2.3	NS	1.9
1,1,1-Trichloroethane	ND<(0.60)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	6.9	NS	20.6
1,1,2,2-Tetrachloroethane	ND<(0.76)	ND<(0.69)	ND<(0.55)	ND<(0.69)	ND<(0.55)	<0.25	NS	NS
1,1,2-Trichloroethane	ND<(0.60)	ND<(0.55)	ND<(0.44)	ND<(0.55)	ND<(0.44)	<0.25	NS	<1.5
1,2,4-Trichlorobenzene	ND<(0.82)	ND<(0.74)	ND<(0.59)	ND<(0.74)	ND<(0.59)	6.3	NS	<6.8
1,2,4-Trimethylbenzene	ND<(1.1)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	18	NS	9.5
1,3,5-Trimethylbenzene	ND<(1.1)	ND<(0.98)	ND<(0.79)	ND<(0.98)	ND<(0.79)	6.5	NS	NS
2,2,4-Trimethylpentane	ND<(1.0)	ND<(0.93)	ND<(0.75)	ND<(0.93)	ND<(0.75)	NS	NS	NS
Tertiary Butyl Alcohol	ND<(0.67)	0.61	ND<(0.49)	ND<(0.61)	ND<(0.49)	NS	NS	NS
Tetrachloroethylene	ND<(0.30)	11	10	14	6.6	4.1	30	15.9
Tetrahydrofuran	ND<(0.65)	ND<(0.59)	ND<(0.47)	153 a	ND<(0.47)	9.4	NS	NS
Toluene	1.7	ND<(0.75)	0.72	1.1	0.68	110	NS	43
Trichloroethylene	ND<(0.24)	3.0	0.70	3.5	12	0.8	2	4.2
Trichlorofluoromethane	5.1	1.6	1.7	2.8	1.5	30	NS	18.1
Vinyl chloride	ND<(0.11)	ND<(0.10)	ND<(0.082)	ND<(0.10)	0.56	<0.25	NS	<1.9
Vinyl Acetate	ND<(0.77)	ND<(0.70)	ND<(0.56)	ND<(0.70)	ND<(0.56)	NS	NS	NS
m,p-Xylene	ND<(0.96)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	21.0	NS	22.2
o-Xylene	ND<(0.96)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	13.0	NS	7.9
Xylenes (total)	ND<(0.96)	ND<(0.87)	ND<(0.69)	ND<(0.87)	ND<(0.69)	NS	NS	NS

Note:

Results and Standards expressed in micrograms per cubic meter (µg/m3)

ND<# = Not detected, less than the laboratory reporting limit

NS = No Standard

E = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.

a = Result is from run #2.

BOLD = results exceed NYSDOH 2003 Soil Vapor Indoor Upper Fence (1) standard

ITALIC = results exceed NYSDOH 2003 Soil Vapor Intrusion Air Guidance Value (2) standard

"Gray" = results exceed EPA 2001 BASE 90th Percentile (3) standard

BOLD, ITALIC, or "Gray" indicators in the Regulatory Guidance columns indicate at least one historic exceedance was observed.

(1) Upper fence indoor air values from "Table C1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes',

published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C" (October 2006)

(2) NYSDOH Air Guideline Values (AGVs) from "Table 3.1 Air guideline values derived by the NYSDOH" presented in the Final Guidance for evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document")

(3) 90th percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA

canister method" published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C" (October 2006)

Table 6 SVI STUDY CONSTITUENTS OF CONCERN COMPARISON SUMMARY



Orangetown Shopping Center NYSDEC Site #C344066

	Samples		Chemical Compound							Action Required			
Sample Date	Sample Location	Sample Type	TCE	c12-DCE	11 - DCE	Carbon Tetrachloride	PCE	1,1,1-TCA	Methylene Chrloride	Vinyl Chloride	Matrix A (TCE, c12-DCE, 11-DCE, Carbon Tetrachloride)	Matrix B (PCE, 111-TCA, Methylene Chloride)	Matrix C (Vinyl Chloride)
4/7/0004		Indoor Air	0.70	0.52	ND<(0.13)	0.52	10	ND<(0.44)	0.59	ND<(0.082)	No Further Astion	Identify Source and	No Fusters Action
1/7/2021	VP-6	Sub-slab	3.0	0.87	ND<(0.16)	ND<(0.25)	11	ND<(0.55)	1.1	ND<(0.10)	No Further Action	Resample or Mitigate	No Further Action
4/7/0004		Indoor Air	12	2.7	ND<(0.13)	0.50	6.6	ND<(0.44)	0.76	0.56	Identify Source and	No Fuellos Action	Identify Source and
1/7/2021	VP-5	Sub-slab	3.5	4.4	ND<(0.16)	ND<(0.25)	14	ND<(0.55)	ND<(0.69)	ND<(0.10)	Resample or Mitigate No Further Action		Resample or Mitigate

Notes:

Results and Standards expressed in micrograms per cubic meter (µg/m3)

TCE= Trichloroethene (Trichloroethylene)

c12-DCE= cis-1,2-Dichloroethene

11-DCE= 1,1-Dichloroethene (1,1-dichloroethylene)

PCE= Tetrachloroethene (Tetrachloroethylene)

1,1,1-TCA= 1,1,1-trichloroethane



Appendix A – Environmental Easement

Rockland County, NY Paul Piperato County Clerk

1 South Main St Ste 100 New City, NY 10956 Phone Number : (845) 638-5070

Official Receipt : 2011-00049305

Printed On : 10/13/2011 at 11:01:36 AM

Customer :

CLASS ABSTRACT SERVICES INC 72 JERICHO TPKE SUITE 3 MINEOLA, NY 11501

Date Recorded : October 04, 2011

By:76

on INDEX9

Instrument ID	Amount
File Number : 2011-00035889	\$101.00
Transaction: Ease, Rightway, A/Rent Name(s): JLJ MANAGEMENT CO To : PEOPLE OF THE STATE OF NEW YORK Remarks : HAH	

Itemized	Check	Listing
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Check Number : 13622	•	\$101.00
	Total Due :	\$101.00
	Paid by Check :	\$101.00
	Change Tendered :	\$0.00

HAVE A NICE DAY!

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Page 1 of 1

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Paul Piperato, County Clerk 1 South Main St Ste 100 New City, NY 10956 (845) 638-5070

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Ro	ckland Coun	ty Clerk Recording Cover Sheet
Received From : CLASS ABSTRACT SER 72 JERICHO TPKE SUITE MINEOLA, NY 11501	VICES INC E 3	Return To : CLASS ABSTRACT SERVICES INC L 72 JERICHO TPKE SUITE 3 MINEOLA, NY 11501
First GRANTOR]
JLJ MANAGEMENT CO		
First GRANTEE		· · · · ·
PEOPLE OF THE STATE	OF NEW YORK	
Index Type : Land Records		1
Instr Number : 2011-0	0035889	
Book :	Page :	\sim
Type of Instrument : Ease Type of Transaction : Ease		Ň
Recording Fee :	• • •	The Property affected by this instrument is situated in Orangetown, in the
Recording Pages :	11	County of Rockland, New York
Real Estate Trans	sfer Tax	State of New York
	815	County of Rockland
Deed Amount :	\$0.00	Winereby or failing that the within and foregoing was
RETT Amount :	\$0.00	Recorded in the Clerk's office for Rockland County,
	••	On (Recorded Date) : 10/04/2011
Total Fees :	\$101.00	At (Recorded Time) : 10:58:00 AM
		Carl Queento
Doc ID - 023456330011		Paul Piperato, County Clerk
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This sheet constitutes the Clerks endorsement required by Section 319 of Real Property Law of the State of New York

Entered By: HAH Printed On : 10/13/2011 AI: 3:11:40PM

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Site No: C 344066

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this /// day of Scitchen, 20//, between Owner(s) JLJ Management Co., a New York Partnership, having an office at 197 Trenor Drive, New Rochelle, County of Rockland, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233.

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

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

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

WHEREAS, Grantor, is the owner of real property located at the address of 1-45 Orangetown Shopping Center in the Town of Orangetown, County of Rockland and State of New York, known and designated on the Vax map of the County Clerk of Rockland as tax map parcel numbers: Section 7440 Block I Lot 67, being the same as that property conveyed to Grantor by deed dated April 4, (990 precoded in the Rockland County Clerk's Office in Book 0404 at Page 2555, the Environmental Easement area of which comprising approximately 1.3308 ± acres, and hereinafter more fully described in the Land Title Survey dated April 27, 2011 prepared by Joseph R. Link of Link Land Surveyors P.C., which will be attached to the Site Management Plan. The property description and survey (the "Controlled Property") is set forth in and attached hereto as Schedule A, and

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

Environmental Easement Page 1

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Book , Page , File Number 2011-0003588

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County: Rockland

Site No: C 344066

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NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Number: A3-0563-0906, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Sasement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lesses and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 305-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Control must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.

(4) Groundwatewand other environmental or public health monitoring must be performed as defined in the SMP;

(5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.

(8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

Site No: C 344066

(9) 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 this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes, and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section Division of Environmental Remediation NYSDEC 625 Broadway Albany, New York 12233 Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

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

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

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

G. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable cationing under penalty of perjury, in such form and manner as the Department may require, that:

County:	Rocklan

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:
 (i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5 the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

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

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

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

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

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

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

Site No: C 344066

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

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Wage or computerized system identification number.

Parties shall address correspondence to:

Site Number: 0/344066 Office of General Coursel NYSDEC 625 Broadway Albany New York 12233-5500

With a copy to:

Site Source' Section Division of Environmental Remediation NYSDEC 625 Broadway Albany, NY 12233

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

7. <u>Recordering</u> Crantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article of the Real Property Law.

8. <u>Amendment</u>. Any amendment to this Environmental Easement may only be executed by the Gemiwissioner of the New York State Department of Environmental Conservation or the Complissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. <u>Extinguishment</u>. This Environmental Easement may be extinguished only by a release by

the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

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

Grantor: JLJ Management Co., a New York Partnership

	DAFO Realty Corp., its General Partner
	By: Thit hante
	Print Name: HILTON Soniker
	Title: fresident Date: 9/2/11
	ODAF Realty Corp., its General Partner
	By: 14th Janda
	Print Name: Hillion Soniker
	Title: Irasilent Dato: 9/2/11
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Site No: C 344066

Grantor's Acknowledgment

STATE OF NEW YORK))ss: COUNTY OF ∧Y)

On the 2n day of $\int e^{\int k} (mber)$, in the year 20 $\lfloor \rfloor$, before me, the undersigned, personally appeared $|\frac{1}{11 \text{ cm}} \int e^{\int k} (kr)$, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Kanena JEROME KAMERIMAN Notary Public, State ul New York No. 02KA7146176 Qualified in Westchester County Certificate Filed in New York Count Commission Expires October 31, 20_ Notary Public - State of New York STATE OF NEW YORK) ss: COUNTY OF ~ Y) On the $\frac{2 \times 1}{1 \times 1}$ day of September, in the year 20 <u>11</u>, before me, the undersigned, personally appeared <u>Hilton Source</u>, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person apon behalf of which the individual(s) acted, executed the instrument. 1 (O y Public - State of New York AN e of Ne MB175 York A7 New York County d in New ctober 31, 20_

BCA Index No: A3-0563-0906 Site No: C 344066 County: Rockland THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner. By: Dale A. Desnoyers, Director Division of Environmental Remediation Grantee's Acknowledgment STATE OF NEW YORK) ss: COUNTY OF Alloung day of September, in the year 2011 before me, the undersigned, On the <u>independence</u>, and <u>independence</u>, in the year <u>independence</u>, the undersigned, personally appeared <u>independence</u>, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he(she/ excepted the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted precured the instrument. On the _ Notary Public - State of David J. Chiolanno Notary Public, State of New York No. 010H5082446 Qualified in Schemetricy County, Commission Pipires August 22, 2011

SCHEDULE "A" ENVIRONMENTAL EASEMENT PROPERTY DESCRIPTION

1-45 ORANGETOWN SHOPPING CENTER ORANGETOWN, COUNTY OF ROCKLAND, NY SECTION: 74.10 BLOCK: 1 LOT: 67

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH IMPROVEMENTS THEREON ERECTED, SITUATED AND LYING AND BEING IN THE TOWN OF ORANGETOWN, COUNTY OF ROCKLAND AND STATE OF NEW YORK.

BEGINNING AT A POINT ON THE WESTERLY SIDE OF OAK STREET WHERE THE SAME IS INTERSECTED BY THE DIVISION LINE BETWEEN LAND NOW OR FORMERLY JLJ MANAGEMENT ON THE SOUTH AND LAND NOW OR FORMERLY SEEBACH ON THE NORTH, SAID POINT ALSO BEING 430.52 FEET SOUTHERLY FROM THE SOUTHERLY END OF A CURVE HAVING A RADIUS OF 36.15 LENGTH OF 56.81 FEET CONNECTING THE SOUTHERLY SIDE OF ORANGEBURG ROAD AND THE WESTERLY SIDE OF OAK STREET.

THENCE RUNNING ALONG THE WESTERLY SIDE OF OAK STREET SOUTH 7°24000 EAST 60.89 FEET TO THE DIVISION LINE BETWEEN JLJ MANAGEMENT AND LAND NOW OR FORMBRLY HOPFMAN;

THENCE ALONG SAID DIVISION LINE SOUTH 82° 36'00" WEST 100.00 FEBT THENCE CONTINUING ALONG SAID DIVISION LINE AND ALONG THE DIVISION LINE BETWEEN JLJ MANAGEMENT AND LAND NOW OR FORMERLY FARINI SOUTH 7°24'00" EAST 88.00 FEET.

THENCE RUNNING THROUGH LANDS OF JLJ MANAGEMENT THE FOLLOWING FIVE (5) COURSES AND DISTANCES;

- 1, SOUTH 82° 36' 00" WEST 168,00 FEET;
- 2. NORTH 3° 04' 00" WEST 111.00 FEET;
- 3. SOUTH 87° 02' 00" WEST 56.00 FEET;
- NORTH 2º 58' 00" WEST 182.10 FEET;
- 4, NORTH 87º 02' 00" EAST 176.89 FEET TOTHE WESTERLY SIDE OF LAND NOW OR FORMERLY 5. UCKER

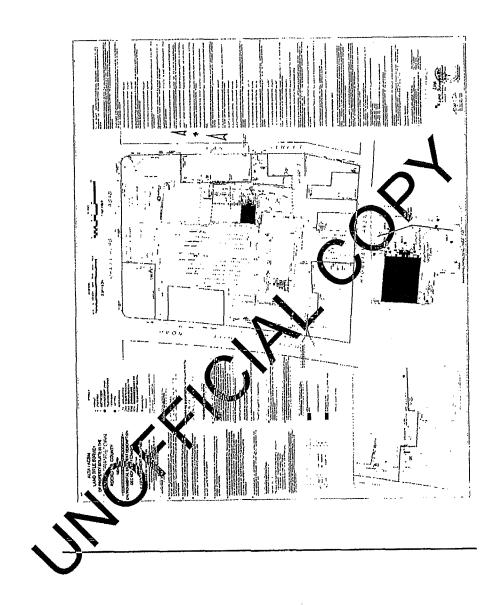
THENCE RUNNING ALONG LAND OF UCKER AND CONTINUING ALONG LAND OF SEEBACH SOUTH 7° 24" 00" WEST 134.00 FEET AND NORTH 82° 30 00" EAST 125.00 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 1,3308 ACRES 20



Site No: C 344066

SURVEY



ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this <u>//6</u> day of <u>Schrenhen</u>, 20<u>//</u>, between Owner(s) JLJ Management Co., a New York Partnership, having an office at 197 Trenor Drive, New Rochelle, County of Rockland, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233.

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

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

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

WHEREAS, Grantor, is the owner of real property located at the address of 1-45 Orangetown Shopping Center in the Town of Orangetown, County of Rockland and State of New York, known and designated on the tax map of the County Clerk of Rockland as tax map parcel numbers: Section 74.10 Block 1 Lot 67, being the same as that property conveyed to Grantor by deed dated April 4, 1990 recorded in the Rockland County Clerk's Office in Book 0404 at Page 2555, the Environmental Easement area of which comprising approximately 1.3308 \pm acres, and hereinafter more fully described in the Land Title Survey dated April 27, 2011 prepared by Joseph R. Link of Link Land Surveyors P.C., which will be attached to the Site Management Plan. The property description and survey (the "Controlled Property") is set forth in and attached hereto as Schedule A; and

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

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Number: A3-0563-0906, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP.

(4) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(5) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(6) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(7) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.

(8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

(9) 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 this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes, and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section Division of Environmental Remediation NYSDEC 625 Broadway Albany, New York 12233 Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

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

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

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

G. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved b the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5 the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

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

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

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

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. <u>Enforcement</u>

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

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

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

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:	Site Number: C 344066 Office of General Counsel NYSDEC 625 Broadway Albany New York 12233-5500
With a copy to:	Site Control Section Division of Environmental Remediation NYSDEC 625 Broadway Albany, NY 12233

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

7. <u>Recordation</u>. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. <u>Amendment</u>. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. <u>Extinguishment.</u> This Environmental Easement may be extinguished only by a release by

the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

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

Grantor: JLJ Management Co., a New York Partnership

DAFO Realty Corp., its General Partner

By: Thit house

Print Name: Hilton Soniker

Title: <u>President</u> Date: <u>9/2/11</u>

ODAF Realty Corp., its General Partner

By: Hill- knute

Print Name: Hilton Soniker

Title: Irasident Date: <u>9/2/11</u>

Grantor's Acknowledgment

STATE OF NEW YORK)) ss: COUNTY OF ∧ Y)

On the 2n day of \hat{J}_{μ} day definition \hat{J}_{μ} day definit \hat{J}_{μ} day day definit \hat{J}_{μ} day definition \hat{J}_{μ}

ublic - State of New York Notary

JEROME KAMERMAN Notary Public, State of New York No. 02KA7146175 Qualified in Westchester County Certificate Filed in New York County Commission Expires October 31, 20

STATE OF NEW YORK) COUNTY OF $\bigwedge \bigvee$)

On the 2nl day of 5c (tember, in the year 20 <u>l</u>), before me, the undersigned, personally appeared <u>Hitten Soniker</u>, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person whon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

JEROME KAMERMAN Notary Public, State of New York No. 02KA7146175 Qualified in Westchester County Certificate Filed in New York County Commission Expires October 31, 20

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

By:

Dale A. Desnoyers, Director Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK) COUNTY OF Allowy) ss:

On the <u>day of <u>Septensa</u></u>, in the year 20<u>11</u>, before me, the undersigned, personally appeared <u>day of <u>septensa</u></u>, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designce of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted/executed the instrument.

Notary Public - State bf New

David J. Chiusano Notary Public, State of New York No. 01CH5032146 Qualified in Schenectady County, Commission Expires August 22, 20

SCHEDULE "A" ENVIRONMENTAL EASEMENT PROPERTY DESCRIPTION

1-45 ORANGETOWN SHOPPING CENTER ORANGETOWN, COUNTY OF ROCKLAND, NY SECTION: 74.10 BLOCK: 1 LOT: 67

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH IMPROVEMENTS THEREON ERECTED, SITUATED AND LYING AND BEING IN THE TOWN OF ORANGETOWN, COUNTY OF ROCKLAND AND STATE OF NEW YORK.

BEGINNING AT A POINT ON THE WESTERLY SIDE OF OAK STREET WHERE THE SAME IS INTERSECTED BY THE DIVISION LINE BETWEEN LAND NOW OR FORMERLY JLJ MANAGEMENT ON THE SOUTH AND LAND NOW OR FORMERLY SEEBACH ON THE NORTH, SAID POINT ALSO BEING 430.52 FEET SOUTHERLY FROM THE SOUTHERLY END OF A CURVE HAVING A RADIUS OF 36.15 LENGTH OF 56.81 FEET CONNECTING THE SOUTHERLY SIDE OF ORANGEBURG ROAD AND THE WESTERLY SIDE OF OAK STREET.

THENCE RUNNING ALONG THE WESTERLY SIDE OF OAK STREET SOUTH 7°24'00" EAST 60.89 FEET TO THE DIVISION LINE BETWEEN JLJ MANAGEMENT AND LAND NOW OR FORMERLY HOFFMAN;

THENCE ALONG SAID DIVISION LINE SOUTH 82° 36'00" WEST 100.00 FEET; THENCE CONTINUING ALONG SAID DIVISION LINE AND ALONG THE DIVISION LINE BETWEEN JLJ MANAGEMENT AND LAND NOW OR FORMERLY FARINI SOUTH 7°24"00" EAST 88.00 FEET.

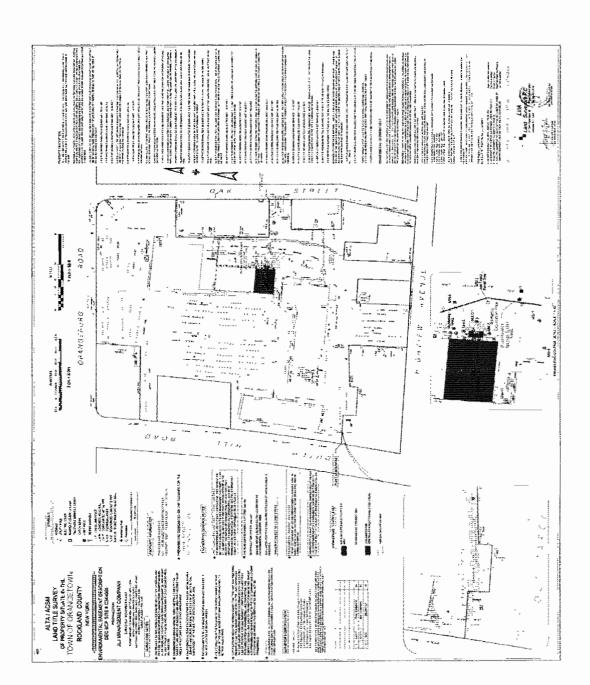
THENCE RUNNING THROUGH LANDS OF JLJ MANAGEMENT THE FOLLOWING FIVE (5) COURSES AND DISTANCES;

- 1. SOUTH 82° 36' 00" WEST 168.00 FEET;
- 2. NORTH 3° 04' 00" WEST 111.00 FEET;
- 3. SOUTH 87° 02' 00" WEST 56.00 FEET;
- 4. NORTH 2° 58' 00" WEST 182.10 FEET;
- 5. NORTH 87° 02' 00" EAST 176.89 FEET TO THE WESTERLY SIDE OF LAND NOW OR FORMERLY UCKER

THENCE RUNNING ALONG LAND OF UCKER AND CONTINUING ALONG LAND OF SEEBACH SOUTH 7° 24" 00" WEST 134.00 FEET AND NORTH 82° 36" 00": EAST 125.00 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 1.3308 ACRES / 57,970 SQ. FT.

SURVEY



Periodic Review Report 1-45 Orangetown Shopping Center Orangeburg, New York



Appendix B – Waste Manifest

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	7. Transporter 2 Company Name	8.	US EPA ID	A REAL PROPERTY OF A REAL PROPER	-	isporter's F				
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	16. GENERATOR'S CERTIFICATION: I certify the n	naterials described above on th	is manifest are not a	ubject to federal recul	ations for r	eporting prog	er disnos	al of Hazardo	us Wae	ste.
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ACILITY	20. Facility Owner or Operator: Certification of recei	pt of waste materials covere	d by this manifest	except as noted in It	tem 19.					
Y	Printed/Typed Name		Signature	3			2	Month	Day	Year
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Appendix C – Groundwater Well Logs

GROUN	DWATE	R PURG	E AND	SAMPLI	NG FIEL	D SHEE	Т		Well ID:	MW-3
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2. MONITO Depth to V Casing Dia Purge Volume	DRING WEL Nater: ameter:			-	o Bottom (ast round):		gallons		
(DTB - DTW) Well D	*X = X Diameter	_(1well volume 0.041 1"	in gallons) 0.163 2"	0.367	0.653 4"	*Remove at le	east 3 well volu	mes*		
Water Qua	thod: urge dry? rge Amount ality Meter M	::		No Xo gallons 50 WD	25	Depth to	Did well n to Water a Water after elapsed for	r recharge:	36.19 NA	
First Volur Second Vo	ne	рн 6.38 6.36	Temperature 16.46 15.69	Conductivity ,459 ,665	DO 1.55 1.54		28.5	Comme	nts or Obso	ervations
4 SAMPLE	ter parameters	l. . If well ran dry	r, record the p		ny remaining s	ample water he	ere.			~
Sar Analy ses :	nple Time: (cC	<u>MW</u> <u>((CC</u> nple volume)	sample jars	- Du - Du - M	Number of (plicate San S/MSD San Yes	er at time of Containers: nple Collect nple Collect No □	_(<u>)</u> ted?	Yes 🗆 Yes 🗆	No & No &
Depth to B		ell (measur	e after sam	npling):	43.70	5	_ Depth	to DNAPL	:V	>

GROUNDWATER PURGE AND SAMPLING FIELD SHEET

Well I	D:	MW-4

. PROJEC	T INFORMAT	ION:				g (p. mod. minuter)	/	200		
Site:	Orangetown S	Shopping Ce	enter C	lient: _	UB Orangel	ourg, LLC	Date:	1.30.2	7	
Address:	1-45 Oranget	own Shoppin	ng Ctr. F	Project #:	1102741-	06-206	Sampler:	cm	(00	
	Orangeburg,			NYSDEC Sit	e #: _	C344066	Weather:	closy	620	
2. MONITO	ORING WELL									
Depth to \	Water:	34.01		-		st round):	(gallons		
Casing Di	iameter:	9	Calcu	lated Purge	Amount:	-	6	yallolis		
Purge Volume	Calculation:									
(DTB - DTW	/)*X =(1well volume in								
	X	0.041	0.163	0.367 3"	0.653 4"	*Remove at le	ast 3 well volur	nes*		
Weil	Diameter	1 1								
3. PURGI	E DATA									
Purge M	ethod:	Dedica	ted Teflon	Bailers			Did well	recharge?	Yes 🛓	∩
Did well	purge dry?		Yes 🗆	Nor				fter purge: _		9
Actual P	urge Amount:		(O gallons		-		r recharge: _		
	uality Meter M		YSI 6	Somos	>	Time	elapsed for	r recharge: _	NA	
Observe wa	ater quality param	eters following	removal of ea	ch well volume:	_					
		рН	Temperature	Conductivity	DO	ORP	Turbidity	Commen	ts or Obse	vations
First Vo	lume	6.48	15.96	1.832	2.44	72.2	47.8		1 ¹	
		6.49	15.92	2.147	3.12	63.2	61.4			
Second	Volume	6.48		2.382	234	45-1	98.3			
Third Vo	vater parameters	6.90	13.3	0, 300	v remaining s	ample water he		1		
* - Sample	water parameters	s. If well ran or	y, record the p							
4. SAMF	PLE DATA	Å							30. 21	2
	Sample ID:	$: MW^{\Delta}$	t					f Sampling:	37.20	2
	Sample Time:	: 6915	5				Containers			No 🗆
	s: CoC				-	-	mple Collec		Yes	No 🗆
					_ M		nple Collect		Yes	NOL
Was the	ere enough sa	ample volun	ne to fill all	sample jars	17	Yes 🖉	No 🗆	explain:		
	o Bottom of V				46.8	10	Dept	h to DNAPL:		
5. COM	MENTS		27							
		-	2						· · · · · · · · · · · · · · · · · · ·	
	.e. ^a									

PROJECT INFORMATI e: Orangetown S dress: 1-45 Orangeto Orangeburg,	Shopping Ce own Shoppin	ng Ctr. P	lient: roject #: YSDEC Sit	1102741-	ourg, LLC [06-206 [C344066]	Sampler:	1.30. Un Loray	H	69 •
		Calcu	Depth to lated Purge	Bottom (la Amount: _			gallons		
DTB - DTW)*X =(X Well Diameter	1well volume i 0.041 1"	n gallons) 0.163 2"	0.367 3"	0.653 4"	*Remove at lea	ast 3 well volur	nes*		
3. PURGE DATA Purge Method: Did well purge dry? Actual Purge Amount Water Quality Meter M	: Nodel:		Noy gallons 50 MD	5	Depth to	Did well to Water a Water after elapsed for	r recharge:	38.2 NA	No 🗆 4
Observe water quality paran	pH (42	Temperature	Conductivity	1.74	0RP -84.4 -90.5	Turbidity QG 34.6		ents or Obse	rvations
Second Volume Third Volume* * - Sample water parameter	624	16.35	13.38	1.96	-57.9	5511			
4. SAMPLE DATA Sample ID Sample Time Analyses:	9: <u>M(x) ~</u> 2: <u>131</u> C ample volu	S O me to fill all	l sample jar	_ D _ D _ N	epth to Wat Number of uplicate San IS/MSD San Yes &	er at time o Containers nple Collec nple Collec No □	ted? cted? cted? cted?	yes Yes Yes Yes Yes Yes Yes Yes Y	No X No X
Depth to Bottom of 5. COMMENTS	Well (meas	ure after sa	mpling):	43.	<u>,0</u>	Debr			

ROUNDWATER		SAMPLING FI	ELD SHEE	т		Well ID:	MW-8A
and the second sec	Shopping Center town Shopping Ctr.			Date: Sampler: Weather: (4.30 un Curey	·21	69.
asing Diameter:	35.56	Depth to Botto alculated Purge Amo		9	gallons		
urge Volume Calculation: DTB - DTW)*X = X Well Diameter	(1well volume in gallons 0.041 0.163 1" 2"	And Annual of		east 3 well volu	mes*		
3. PURGE DATA Purge Method: Did well purge dry? Actual Purge Amoun Water Quality Meter	t:	flon Bailers S D No & 7 gallons 1 650 MDS	Depth to	Did well h to Water a h Water after elapsed for	recharge:	Yes 40.7 NA NA	
Observe water quality para First Volume Second Volume Third Volume* * - Sample water parameter	pH Temper 6.75 15.5 6.70 15.7 6.63 16.3	ature Conductivity DO	6 -11.8 8 - 11.4 6 - 10.6	29.7	Commer	nts or Obs	ervations
Sample Tim Analyses: Was there enough s	sample volume to fil	I all sample jars?	Depth to Wat Number of Duplicate San MS/MSD San Yes	Containers: mple Collec nple Collect <i>No</i> □	:(ted?	Yes	NO BY NO BY
Depth to Bottom of	Well (measure after	sampling): <u></u>	2.40				

. PROJECT INFORMATION: Site: Orangetown Shopping Center Client: UB Orangeburg, LLC Date: 4.3.0					- herenh <u>er</u> er		
Address: 145 Orangetown Shopping Ctr. Project #: 1102741-06-208 Sampler: Curry 6.2 ° Orangeburg, New York NYSDEC Site #: C344066 Weather: Clury 6.2 ° Qrangeburg, New York NYSDEC Site #: C344066 Weather: Clury 6.2 ° Qrangeburg, New York Depth to Bottom (last round):						1000	
Orangeburg, New York NYSDEC Site #: C344066 Weather: Clong 60 ⁶ 2. MONITORING WELL DATA: U14 0.9 Depth to Water: 32.65 Depth to Bottom (last round):							1
2. MONTORING WELL DATA: Depth to Bottom (last round):							(06
2. MONITORING WELL DATA:	Orangebu	g, New York	NYSDEC Site #:	<u>C344066</u>	_Weather:	Clargy	62
Casing Diameter: Calculated Purge Amount: 1.5 gallons Purge Volume Caculation: (Well Volume in gallons) (Well Olameter 1' 2' 3' 4' "Remove at least 3 well volumes" 3. PURGE DATA Purge Method: Dedicated Teflon Bailers Did well recharge? Yes 7 No C Did well purge dry? Yes 0 Nor 7 Depth to Water after purge: 33.49 Actual Purge Amount: 1.5 gallons Depth to Water after recharge: ////////////////////////////////////	2. MONITORING WE	LL DATA:				WINDY	
Purge Volume Calculation: (DTB - DTW)'X =	Depth to Water:	32.65	Depth to Botto	m (last round)	:		
(DTB - DTW)*X =	Casing Diameter:		culated Purge Amo	unt: 1.5	a = 193	gallons	
X 0.041 0.163 0.367 0.653 Well Diameter 1* 2* 3* 4* *Remove at least 3 well volumes* 3. PURGE DATA Purge Method:	Purge Volume Calculation:		·····				
X 0.041 0.163 0.367 0.653 Well Diameter 1* 2* 3* 4* *Remove at least 3 well volumes* 3. PURGE DATA Purge Method:							
X 0.041 0.163 0.367 0.653 Well Diameter 1* 2* 3* 4* *Remove at least 3 well volumes* 3. PURGE DATA Purge Method:	(DTB - DTW)*X =	(1well volume in gallons)					
3. PURGE DATA Purge Method:	X	0.041 0.163					
Purge Method: Dedicated Teflon Bailers Did well recharge? Yes? No T Did well purge dry? Yes No T Depth to Water after purge: 33.49 Actual Purge Amount: 1.5 gallons Depth to Water after purge: 33.49 Water Quality Meter Model: 1.5 Good Mark Depth to Water after recharge: NA Observe water quality parameters following removal of each well volume: Do ORP Turbidity Comments or Observations First Volume 6.65 15.00 1.665 1.60 36.7 70.7 Second Volume 6.64 14.05 1.965 1.62 36.7 70.7 First Volume 6.64 1.965 1.62 36.7 70.7 Second Volume 6.64 1.965 1.30 301.2 Third Volume* 6.64 1.964 1.95 1.30 301.2 *- sample water parameters. If well ran dry, record the parameters of any remaining sample water here. Duplicate Sample Collected? Yes I No Yes I Mathyses: Cucc May.esc Yes I No Yes I No Yes I No Yes I W	Well Diameter	1"2"	3" 4"	*Remove at l	east 3 well volu	mes*	
pH Temperature Conductivity DO ORP Turbidity Comments or Observations First Volume 6.65 15.00 1.965 1.60 36.7 70.7 Second Volume 6.64 14.45 1.964 1.95 -13.1 345.6 Third Volume* 6.64 15.63 3.111 1.83 -4.1 361.2 *- Sample water parameters. If well ran dry, record the parameters of any remaining sample water here. Depth to Water at time of Sampling: 33.49 4. SAMPLE DATA Sample Time: IOIS Depth to Water at time of Sampling: 349 Analyses: CuC Duplicate Sample Collected? Yes I No 8 Was there enough sample volume to fill all sample jars? Yes I No I explain: Depth to Bottom of Well (measure after sampling): 35.60 Depth to DNAPL: III	_		1				
First Volume 6.65 15.00 1.065 1.60 06.7 70.7 Second Volume 6.64 14.65 1.964 1.95 -13.1 045.6 Third Volume* 6.64 15.63 0.111 1.83 -4.1 301.2 *- Sample water parameters. If well ran dry, record the parameters of any remaining sample water here. Depth to Water at time of Sampling: 3.49 4. SAMPLE DATA Sample ID: MW E Depth to Water at time of Sampling: 3.49 Mumber of Containers: 1.9 1.9 Mumber of Containers: 1.9 Mo Mailyses: CuC No Mode Mode Mode Was there enough sample volume to fill all sample jars? Yes I No explain: Depth to Bottom of Well (measure after sampling): 35.60 Depth to DNAPL: MD	Observe water quality part		1 1		L		
Inist volume G.64 14-85 1.964 1.95 -13.1 045.6 Second Volume G.64 15.63 0.111 1.83 -4.1 301.0 Third Volume* G.64 15.63 0.111 1.83 -4.1 301.0 *- Sample water parameters. If well ran dry, record the parameters of any remaining sample water here. Depth to Water at time of Sampling: 33.49 4. SAMPLE DATA Depth to Water at time of Containers: 10 A9 Sample Time: IOIS Duplicate Sample Collected? Yes Intermediate Notes Was there enough sample volume to fill all sample jars? Yes Intermediate Notes Notes Was there enough sample volume to fill all sample jars? Yes Intermediate Notes Notes Depth to Bottom of Well (measure after sampling): 35-60 Depth to DNAPL: ND					1	Comments o	r Observations
Second volume C <thc< th=""> C C <thc< th=""> <th< td=""><td>First Volume</td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thc<></thc<>	First Volume						
Third Volume* 6.64 15.63 0.111 1.83 -4.1 301.0 *- Sample water parameters. If well ran dry, record the parameters of any remaining sample water here. 4. SAMPLE DATA Depth to Water at time of Sampling: 3.49 Sample ID: MW-E Depth to Water at time of Sampling: 3.49 Number of Containers: 1.2 Analyses: CC Duplicate Sample Collected? Yes Intermediate Was there enough sample volume to fill all sample jars? Yes Intermediate No Intermediate Depth to Bottom of Well (measure after sampling): 35-60 Depth to DNAPL: MD	Second Volume	6.64 14-8:	5 1.964 1.93	5-13.1	245.6		
Imiral volume * - Sample water parameters. If well ran dry, record the parameters of any remaining sample water here. 4. SAMPLE DATA Sample ID: $[M(\bigcirc - E]]$ Depth to Water at time of Sampling: 33.49 Number of Containers: 12 Analyses: CCC Duplicate Sample Collected? Was there enough sample volume to fill all sample jars? Yes \Box No \Box explain: Depth to Bottom of Well (measure after sampling):		6.64 15.63	2.111 1.8	3-4.1	301.2		
4. SAMPLE DATA Sample ID: MW-E Sample Time: IOIS Analyses: CCC Was there enough sample volume to fill all sample jars? Depth to Bottom of Well (measure after sampling): 35-60 Depth to DNAPL: MD	* - Sample water parameter	200 0000	parameters of any remain	ing sample water h	ere.	v.	
Sample ID: $M = E$ Depth to Water at time of Sampling: 3.49 Sample Time: IOIS Number of Containers: 12 Analyses: CC Duplicate Sample Collected? Yes \Box Was there enough sample volume to fill all sample jars? Yes \Box No B Depth to Bottom of Well (measure after sampling): 35-60 Depth to DNAPL: MD			1		1		
Sample Time: IOIS Analyses: CCC Number of Containers: Duplicate Sample Collected? Yes □ No B MS/MSD Sample Collected? Yes □ No B Sample Collected? Yes □ No B Maine: Depth to Bottom of Well (measure after sampling): 35-60 Depth to DNAPL:				Denth to Wat	or at time of	Sampling, 2	2 19
Analyses:						. ^	,
MS/MSD Sample Collected? Yes No.a Was there enough sample volume to fill all sample jars? Yes No explain: Depth to Bottom of Well (measure after sampling): 35.60 Depth to DNAPL: ND	0	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O					I No b
Was there enough sample volume to fill all sample jars? Yes \Box No \Box explain: Depth to Bottom of Well (measure after sampling): 35.60 Depth to DNAPL: \mathcal{NP}	Analyses:	<u> </u>		-			
Depth to Bottom of Well (measure after sampling): 35.60 Depth to DNAPL: <u>ND</u>			ll comple iare?				
	Mac there enough 9		20				1D
5 COMMENTS		well (measure after sa	impling). <u> </u>				

AL POUR

]	~		(DTB - DTW)*X =	Groundwater Sampling		MW-14A //	MM-E	MW-8A	MW-5	MW-4	MW-3	$\frac{1}{2}$	-		Sailt Field Log (Gauging Table)	Daily Eight I am		
	Well Diameter	×	(1well volu	oling		<	•				0	(outer) (inner)			(Gauging Table	5		
	-1	0.041	(1well volume in gallons)		F	てんらく	32.65	35.56	35.15	34.01	+	4	0					
	2" 3"	0.163 0.367	*Remov			4					22	DNAPL (last visit)	to Bottom	4	Orange	idress: 1-45 O	Site: Orange	
	4"	37 0.653	*Remove at least 3 well volumes*		H V L		35.60	43.20	45.30	A 6.30	43.70	î	om Bottom		Orangeburg, New York	Address: 1-45 Orangetown Shopping Center	Site: Orangetown Shopping Center	
			umes*		9)	V	-	9	ນ	ຍ	Diameter	Well			ng Center	enter	
. 1			-		1		i.	iq	5	6	A	Volume	Well		Weather:	Date: 4	Tech:	
					Cango oni	Galine only	Gauge & Sample	Gauge & Sample	Gauge & Sample	Gauge & Sample	Gauge & Sample	Comments		L	Weather: Clucion	A-30.7	C C C C C C C C C C C C C C C C C C C	
							Gauge & Sample VOCs, Ethene, electron acceptor analtyes and TOC	Gauge & Sample VOCs, Ethene, electron acceptor analtyes and TOC	auge & Sample VOCs, Ethene, electron acceptor analtyes and TOC	auge & Sample VOCs, Ethene, electron acceptor analtyes and TOC	auge & Sample VOCs, Ethene, electron acceptor analtyes and TOC	Analytical Parameters			(minon 60°			

Periodic Review Report 1-45 Orangetown Shopping Center Orangeburg, New York



Appendix D – EC/IC 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. C344066	Site Det	ails		Box 1	
Sit	e Name Orangeburg (Orang	jetown) Shopping	Center			
City Co	e Address: 1-45 Orangetown y/Town: Orangetown unty: Rockland e Acreage: 1.330	Shopping Center	Zip Code: 10962			
Re	porting Period: June 17, 2020) to June 17, 2021				
					YES	NO
1.	Is the information above corr	ect?			X	
	If NO, include handwritten ab	oove or on a separa	ate sheet.			
2.	Has some or all of the site pr tax map amendment during t			undergone a		X
3.	Has there been any change (see 6NYCRR 375-1.11(d))?	of use at the site d	uring this Reporting Pe	riod		X
4.	Have any federal, state, and/ for or at the property during t) been issued		X
	If you answered YES to que that documentation has be					
5.	Is the site currently undergoin	ng development?				X
					Box 2	
					YES	NO
6.	Is the current site use consis Commercial and Industrial	tent with the use(s) listed below?		X	
7.	Are all ICs in place and funct	ioning as designed	!?	X		
	IF THE ANSWER TO E DO NOT COMPLI		6 OR 7 IS NO, sign an THIS FORM. Otherwi		Ind	
AC	Corrective Measures Work Pla	n must be submitt	ed along with this forr	n to address tl	nese iss	ues.
<u></u>						
Sig	nature of Owner, Remedial Par	ty or Designated Re	presentative	Date		

			Box 2	A
8. Has any new information reveale	d that assumptions made in the Qu	alitative Exposure	YES	NO
Assessment regarding offsite con				X
	on 8, include documentation or ev reviously submitted with this cer			
•	ative Exposure Assessment still val sment must be certified every five y		X	
	n 9, the Periodic Review Report m Assessment based on the new as			
SITE NO. C344066			Вох	3
Description of Institutional Cont	rols			
Parcel <u>Owner</u>	eburg, LLC	Institutional Control	<u> </u>	
		Ground Water Use	Restrict	ion
		Soil Management F		
		Landuse Restriction Monitoring Plan	ו	
		Site Management F	Plan	
		O&M Plan	-	
		IC/EC Plan		
The Controlled Property may be used for Industrial as described in 6 NYCRR Part The use of groundwater underlying the necessary water quality treatment as de	t 375-1.8(g)(2)(iv). site is restricted as a source of pota	ble or process wate	r, withou	
			Вох	4
Description of Engineering Cont	rols			
Parcel	Engineering Control			
74.10-1-67				
	Groundwater Treatment System Vapor Mitigation Cover System			
The site owner will be responsible for the systems as discussed in the Site Manag	•	sub-slab depressur	ization	
All three SSDSs are temporarily shut-do decommissioned. Sub-slab and indoor a former Sparkle Cleaners (locations V-5 a sampling events then the sampling can any potential impacts are identified then re-installed at the former Sparkle Cleane	ir samples will be collected annuall and VP-6). If potential impacts are r be discontinued and no further actic monitoring must continue and/or th	y as determined from not observed during on is needed. Howey	the	
The site owner will be responsible for the as discussed in the Site Management P	•	composite cover sy	stem	

-

			Box 5
	Periodic Review Report (PRR) Certification Statements		
	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 Engineering Control certification; 	ction of,	and
	b) to the best of my knowledge and belief, the work and conclusions described are in accordance with the requirements of the site remedial program, and gene		
	engineering practices; and the information presented is accurate and compete.	YES	NO
		X	
	For each Engineering control listed in Box 4, I certify by checking "YES" below that all following statements are true:	of the	
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the De	partmer	ıt;
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth an
	(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		
	(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 for mechanism remains valid and sufficient for its intended purpose established in t		
		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.		
	A Corrective Measures Work Plan must be submitted along with this form to address t	hese iss	sues.
-	Signature of Owner, Remedial Party or Designated Representative Date		

Γ

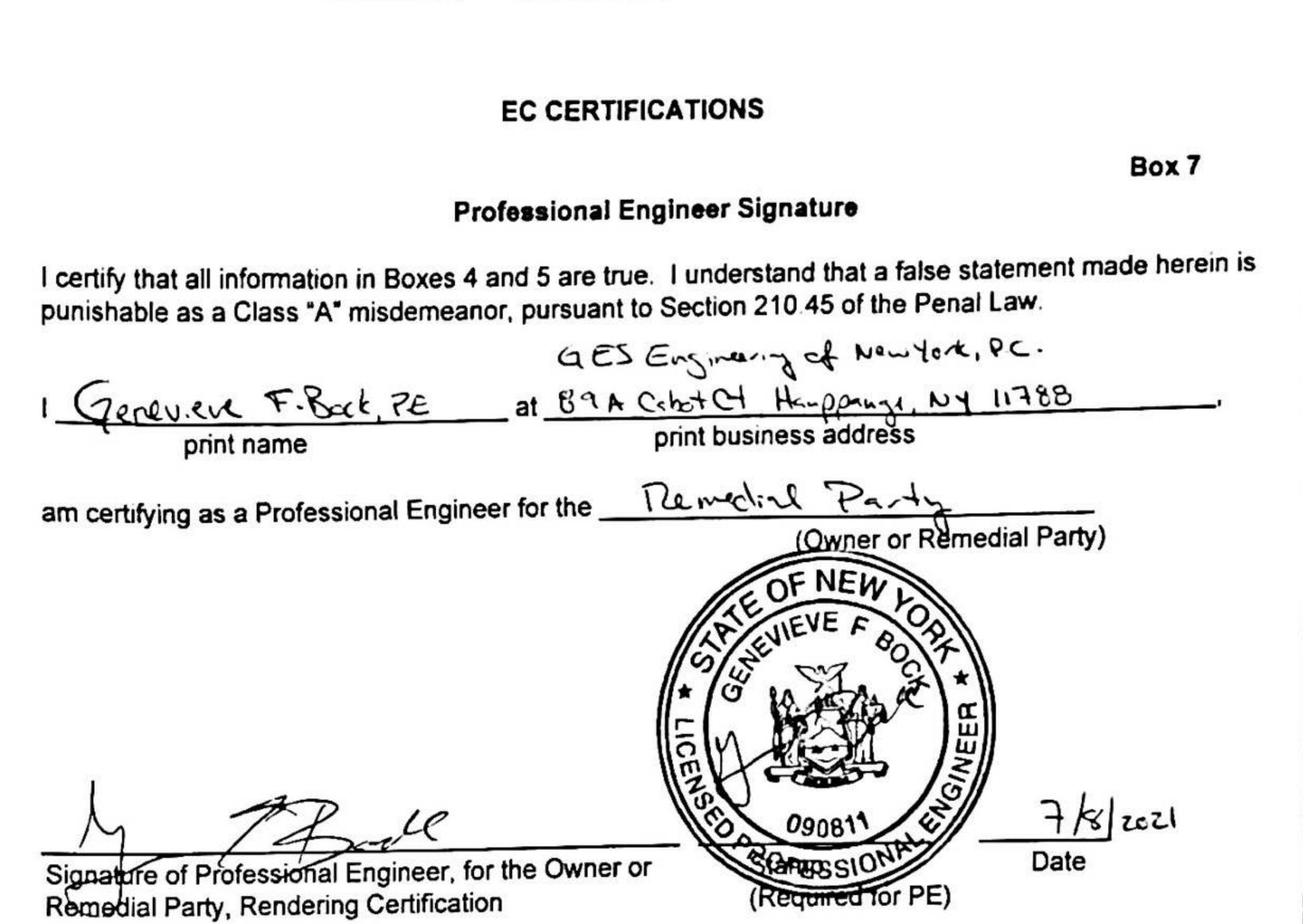
IC CERTIFICATIONS SITE NO. C344066

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Michael DeGloria	Groundwater & Envi at	ronmental Services, Inc.
print na		iness address
am certifying as	Remedial Party	(Owner or Remedial Party)
for the Site named in the Si	ite Details Section of this form.	
Michael DeGlor	Digitally signed by Michael DeGloria Date: 2021.07.09 16:09:32 -04'00'	7/9/2021
Signature of Owner, Reme Rendering Certification	dial Party, or Designated Representative	Date





Appendix E – Regulatory Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020 P: (518)402-9543 | F: (518)402-9547 www.dec.ny.gov

5/3/2021

Dan Logue UB Orangeburg, LLC Urstadt Biddle Properties Inc 321 Railroad Avenue Greenwich, CT 06830 dlogue@ubproperties.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal Site Name: Orangeburg (Orangetown) Shopping Center Site No.: C344066 Site Address: 1-45 Orangetown Shopping Center Orangetown, NY 10962

Dear Dan Logue:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **July 17, 2021**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed



All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

https://www.dec.ny.gov/chemical/62440.html

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

https://fts.dec.state.ny.us/fts/

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Michael Squire, the Project Manager, at 518-402-9546 or michael.squire@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation Division of Environmental Remediation, BURC 625 Broadway

Albany, NY 12233-7014

Enclosures

PRR General Guidance Certification Form Instructions Certification Forms

ec: w/ enclosures

Michael Squire, Project Manager Amen M. Omorogbe, Section Chief Dan Bendell, Hazardous Waste Remediation Supervisor, Region 3

GES - Michael DeGloria - MDeGloria@gesonline.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you <u>cannot</u> certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



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



Sit	Site Details e No. C344066	Box 1	
Sit	e Name Orangeburg (Orangetown) Shopping Center		
City Co	e Address: 1-45 Orangetown Shopping Center Zip Code: 10962 y/Town: Orangetown unty:Rockland e Acreage: 1.330		
Re	porting Period: June 17, 2020 to June 17, 2021		
		YES	NO
1.	Is the information above correct?		
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	Is the site currently undergoing development?		
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial		
7.	Are all ICs in place and functioning as designed?		
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below a DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	nd	
AC	Corrective Measures Work Plan must be submitted along with this form to address th	iese issi	ues.
Sig	nature of Owner, Remedial Party or Designated Representative Date		

	Box 2	Α
8. Has any new information revealed that assumptions made in the Qualitative Expo	YES	NO
Assessment regarding offsite contamination are no longer valid?		
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification fo	rm.	
 Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years) 		
If you answered NO to question 9, the Periodic Review Report must include updated Qualitative Exposure Assessment based on the new assumptions.	an	
SITE NO. C344066	Bo	x 3
Description of Institutional Controls		
Parcel Owner Institutional	Control	
74.10-1-67 UB Orangeburg, LLC Ground Wat Soil Manage Landuse Re Monitoring F Site Manage O&M Plan IC/EC Plan	estriction Plan	tion
The Controlled Property may be used for: Commercial as described in 6 NYCRR Part 37 Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv). The use of groundwater underlying the site is restricted as a source of potable or process necessary water guality treatment as determined by the Department, NYSDOH, or Court	ss water, witho	
	Во	v /
	60/	~ 7
Description of Engineering Controls		
Parcel Engineering Control		
74.10-1-67 Groundwater Treatment System Vapor Mitigation Cover System		
The site owner will be responsible for the operation and maintenance of the sub-slab de systems as discussed in the Site Management Plan.	pressurization	
All three SSDSs are temporarily shut-down. The SSDS at 1 space (former Deli Spot) wa decommissioned. Sub-slab and indoor air samples will be collected annually as determin former Sparkle Cleaners (locations V-5 and VP-6). If potential impacts are not observed sampling events then the sampling can be discontinued and no further action is needed, any potential impacts are identified then monitoring must continue and/or the SSDS must re-installed at the former Sparkle Cleaners.	ned from the during the . However, if	
The site owner will be responsible for the operation and maintenance of the composite or as discussed in the Site Management Plan.	over system	

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	Box 5
	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
	b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted
	engineering practices; and the information presented is accurate and compete. YES NO
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
	YES NO
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.
	Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS SITE NO. C344066

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

۱at	
print name	print business address
am certifying as	(Owner or Remedial Party)
for the Site named in the Site Details Section of t	his form.
Signature of Owner, Remedial Party, or Designal Rendering Certification	ted Representative Date

	EC CERTIFICAT	IONS	
F	Professional Engine	eer Signature	Box 7
ertify that all information in Boxes nishable as a Class "A" misdemea			
	at		
print name	prin	t business address	
n certifying as a Professional Engir	neer for the	(Owner or Reme	edial Party)

Enclosure 3 Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature
- and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.
- VII. Overall PRR Conclusions and Recommendations
 - A. Compliance with SMP For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
 - B. Performance and Effectiveness of the Remedy Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
 - C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.