

EBIZNEWDOC



EBIZNEWDOC

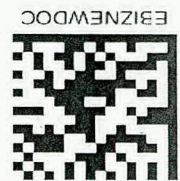
Write or Copy/Paste Document Title In This Space

report.V00160-3.2018-10-09.PRR

DO NOT PHCTOCOPY. PRINT FROM PDF VERSION ONLY.



EBIZNEWDOC



EBIZNEWDOC

Blue Mountain Plaza Shopping Center

20 WELCHER AVENUE
PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

Periodic Review Report

NYSDEC Site Number: V00160-3

Prepared for:

Kurtsam Realty Corporation
P.O. Box 383
Croton on Hudson, New York 10520

Prepared by:

Whitestone Associates, Inc.
35 Technology Drive
Warren, New Jersey 07059
908-668-7777

RECEIVED

OCT 09 2018

Remedial Bureau C

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- (a) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER;*
- (b) nothing has occurred that would impair the ability of such control to protect public health and the environment;*
- (c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and*
- (d) access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.*



Keith T. D'Ambrosio

KEITH T. D'AMBROSIO, P.E.
PROFESSIONAL ENGINEER
NEW YORK LICENSE NO. 076095

TABLE OF CONTENTS

TABLE OF CONTENTS	2
LIST OF TABLES	3
LIST OF FIGURES	3
LIST OF APPENDICES	3
1.0 EXECUTIVE SUMMARY	4
1.1 INTRODUCTION.....	4
1.2 EFFECTIVENESS/COMPLIANCE.....	5
1.3 RECOMMENDATIONS.....	5
2.0 SITE OVERVIEW.....	6
2.1 SITE LOCATION & DESCRIPTION.....	6
2.2 SITE HISTORY	6
2.3 SUMMARY OF REMEDIAL FINDINGS/ACTIONS.....	6
3.0 ENGINEERING & INSTITUTIONAL COMPLIANCE REPORT.....	10
3.1 INTRODUCTION.....	10
3.2 ENGINEERING CONTROLS	10
3.2.1 Sub-Slab Depressurization Systems	10
3.2.2 Asphalt Cover System.....	11
3.3 INSTITUTIONAL CONTROLS.....	11
3.4 INSPECTION.....	13
3.5 CONCLUSIONS & RECOMMENDATIONS.....	13
3.6 CERTIFICATION OF ENGINEERING & INSTITUTIONAL CONTROLS	13
4.0 MONITORING PLAN COMPLIANCE REPORT.....	14
4.1 INTRODUCTION.....	14

4.2	SOIL COVER SYSTEM MONITORING.....	14
4.3	MEDIA MONITORING	14
4.3.1	Groundwater Monitoring	14
4.3.1.1	Monitoring Well Repairs, Replacement & Decommissioning	15
4.3.2	Soil Sampling.....	15
4.3.2.1	Sampling Protocol.....	16
4.3.3	SOIL VAPOR MONITORING	16
4.4	CONCLUSIONS	16
5.0	OPERATION & MAINTENANCE PLAN COMPLIANCE REPORT	17
5.1	INTRODUCTION.....	17
5.2	SUB-SLAB DEPRESSURIZATION SYSTEMS	17
5.2.1	Overview	17
5.2.2	SYSTEM OPERATION INSPECTION.....	17
6.0	OVERALL CONCLUSIONS & RECOMMENDATIONS	19

LIST OF TABLES

1. Groundwater Sampling & Analyses Data Summary

LIST OF FIGURES

1. Location of Remedial Treatment Systems (SSDSs)
2. Monitoring Wells Location Plan

LIST OF APPENDICES

- A. Institutional and Engineering Controls Certification Form
- B. Site-Wide Inspection Form
- C. Routine Maintenance Form

PERIODIC REVIEW REPORT

1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

This Periodic Review Report (PRR) is required as an element of the remedial program at the Blue Mountain Plaza Shopping Center located at 20 Welcher Avenue, Peekskill, New York (hereinafter referred to as the "Site") under the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program administered by the New York State Department of Environmental Conservation (NYSDEC).

The site is a part of the program following its participation in Voluntary Cleanup Agreement (VCA) #V00160-3, which was executed in March 1995. Kurtsam Realty Corporation entered into the VCA with the NYSDEC to investigate and monitor the contaminated media at the site. A figure showing the site location and boundaries is provided in Figure 2. The site currently is owned by Kurtsam Realty Corporation.

On November 13, 2014, Kurtsam Realty Corp. received its "Release and Covenant not to Sue" from the NYSDEC. In that letter, the NYSDEC stated "The Department is satisfied that the Agreement's Work Plan(s) relative to the Site, located at 20 Welcher Avenue, City of Peekskill, Westchester County (also identified as Tax Map Section 42.8 Block 1, Lots 1 and 2) has been successfully completed."

After completion of the Agreement, some contamination was left in the subsurface at this site. A *Site Management Plan* (SMP) dated March 2014 was prepared by Bell Environmental Consultants, Inc. (Bell) to manage remaining contamination at the site. Site contaminant conditions are outlined in Section 2.3.

Engineering Controls have been incorporated into the site remedy to control exposure to remaining contamination and to monitor that the contaminants are stable and/or declining. An Environmental Easement granted to the NYSDEC, and recorded with the Westchester County Clerk, requires compliance with the SMP for the site and all environmental controls (ECs) and institutional controls (ICs) placed on the site. At such time that monitoring and reporting ceases, the Environmental Easement established for the site will be extinguished in accordance with ECL Article 71, Title 36.

The ICs place restrictions on site use, and mandate operation, maintenance, monitoring, and reporting measures for all ECs and ICs. Whitestone's inspections and monitoring have been focused on vapor monitoring (sub-slab de-pressurization system-SSDS) and groundwater sampling/well monitoring. The SSDS functions appropriately and the groundwater concentrations show a stable trend.

This PRR provides a description of the compliance and effectiveness of all controls and/or remedies required to manage remaining contamination at the site after completion of the Remedial Action, including: (1) Engineering and Institutional Controls; (2) media monitoring (as required); and (3) operation and maintenance of all treatment, collection, containment, or recovery systems.

1.2 EFFECTIVENESS/COMPLIANCE

Whitestone Associates, Inc. (Whitestone) performed inspections of the IC/ECs including the sub-slab depressurization systems (SSDs) and soil cover system, and conducted groundwater sampling on September 4, 2018 to ensure all mechanisms remained in compliance with the NYSDEC-approved SMP for the site. Based on Whitestone's September 4, 2018 inspection, all remedy mechanisms (ECs/ICs) at the site are in compliance with the approved SMP and protective of human health and the environment. No corrections or modifications to the SMP currently are required. A *Site-Wide Inspection Form* is included as Appendix B.

1.3 RECOMMENDATIONS

Based on Whitestone's September 4, 2018 inspection, it is recommended that the frequency for submittal of PRRs remains consistent with the SMP. No corrections or amendments to the SMP or ECs/ICs for the site are recommended at this time.

2.0 SITE OVERVIEW

2.1 SITE LOCATION & DESCRIPTION

The site is located in Peekskill, Westchester County, New York, and is identified as Section 42.8, Block 1, Lots 1 and 2 on the City of Peekskill, Westchester County Tax Map. The site is an approximately 5.4-acre area and is occupied by Blue Mountain Plaza Shopping Center. The area immediately surrounding the subject property consists of a mix of residential and commercial uses. The site is bound by Englehard Corporation to the north and east; Welcher Avenue to the south; and South Street to the west (see Figure 2).

2.2 SITE HISTORY

The site was vacant until sometime between 1941 and 1951, at which time a house was constructed. In the late 1950's, the Site was utilized as a minor league baseball field and a stock car race track. The house and all other structures were demolished in 1958 to accommodate the development of the present-day shopping center. Three structures exist on the subject site. Groundwater sampling is conducted in the vicinity of the site structures. The southwest building has a SSDS in operation. The long-term tenants of that building have been a pizzeria, karate school and a former dry cleaning establishment. A #2 heating 1,000-gallon heating oil underground storage tank (UST) was present at the facility behind the central building. It was decommissioned in accordance with a NYSDEC-approved May 2002 workplan.

2.3 SUMMARY OF REMEDIAL FINDINGS/ACTIONS

A Remedial Investigation (RI) was performed to characterize the nature and extent of the contamination at the Site by Bell. Generally, the RIs determined that chlorinated volatile organics (VO) compounds are present in the groundwater from historic discharges from any on-site dry cleaning tenants. No chlorinated VO compound soil contaminants were detected above NYSDEC Residential Soil Cleanup Objective (RSCO) during the RI.

Below is a summary of site conditions when the RI was performed. Initial testing was performed in 1998 with the final phase of the RI conducted in 2005. Since that time, additional groundwater and air sampling have been periodically conducted. These results are included in the tables, figures, and text provided within the 2014 SMP.

Soil

No contaminants were detected in the soil at concentrations above NYSDEC RSCO. Compounds detected can be attributed to historic fill in several areas of the Site.

Site - Related Groundwater

Based on the data collected to date, the chemicals detected in the groundwater include select chlorinated VO compounds and metals. The monitoring wells at the Site have very low recharge rates and can't be developed properly. Based on a data comparison of filtered and unfiltered groundwater samples, the detected metals have been attributed to sediment trapped in the wells.

The chlorinated compounds detected in groundwater have been present in on-site monitoring wells MW-2, MW-3, MW-4, and MW-6, as well as former off-site well ME-7 (well was destroyed during regrading by off-site property owner). The compounds include tetrachloroethene, cis-1,2-dichloroethene, 1,2-dichloroethene, and trichloroethene. Trichloroethene has only been detected at concentrations below NYSDEC Ambient Water Quality Standards (AWQS). A summary of the data ranges for the remaining three compounds is presented below:

Tetrachloroethene

MW-2: 22 to 87 ug/l

MW-4: 5.1 to 15.6 ug/l

MW-6: 68.7 to 140 ug/l

Cis-1,2-Dichloroethene

MW-6: 1.3 to 7.1 ug/l

1,2-Dichloroethene

MW-2: Not Detected (ND) to 18 ug/l

MW-4: ND to 3 ug/l

MW-7: 23 ug/l

The highest concentrations of chlorinated VO compounds are present in monitoring well MW-6, located immediately downgradient of the former dry cleaning tenant.

Site-Related Soil Vapor Intrusion

The results of the initial indoor air sampling conducted on April 7, 2005 by Bell indicate the presence of 13 VO compounds that are above New York State Department of Health (NYSDOH) background concentrations. Prior to installation of the SSDS, the following VO concentrations were detected:

Indoor:

- ▶ Benzene was detected in excess of the NYSDOH indoor background concentration of 5 mcg/m³ in the air sample collected from the first floor (dry cleaners), 5.43 mcg/m³.
- ▶ Chloroform was detected in excess of the NYSDOH indoor background concentration of 4.3 mcg/m³, ranging from 4.88 mcg/m³ to 7.81 mcg/m³.
- ▶ Chloromethane was detected in excess of the NYSDOH indoor background concentration of 1.0 mcg/m³, ranging from 1.40 mcg/m³ to 1.69 mcg/m³.
- ▶ Dichlorodifluoromethane was detected in excess of the NYSDOH indoor background concentration of 1 mcg/m³, ranging from 2.57 mcg/m³ to 4.75 mcg/m³.
- ▶ MTBE was detected in excess of the NYSDOH indoor background concentration of 4.3 mcg/m³, ranging from 5.05 mcg/m³ to 23.06 mcg/m³.
- ▶ N-hexane was detected above the NYSDOH indoor background concentration of 3.6 mcg/m³, ranging from 3.88 mcg/m³ to 10.57 mcg/m³.
- ▶ Styrene was detected above the NYSDOH indoor background concentration of 10 mcg/m³ in the air sample collected from sub-slab (dry cleaners), 15.33 mcg/m³.
- ▶ Tetrachloroethene (PCE) was detected in excess of the NYSDOH indoor background concentration of 10 mcg/m³, ranging from 12.88 mcg/m³ to 155.93 mcg/m³.
- ▶ Total Xylenes were detected in excess of the NYSDOH indoor background concentration of 4.7 mcg/m³, ranging from 13.06 mcg/m³ to 129.77 mcg/m³.
- ▶ Trichloroethene (TCE) was detected in excess of the NYSDOH indoor background concentration of 0.25 mcg/m³, ranging from 1.18 mcg/m³ to 3.98 mcg/m³.

Outdoor Background:

- ▶ MTBE was detected in excess of the NYSDOH outdoor background concentration of 1.0 mcg/m³ in the air sample collected from the rear of the building (10.09 mcg/m³).
- ▶ Toluene was detected in excess of the NYSDOH outdoor background concentration of 6.1 mcg/m³ in the sample collected from the rear of the building (7.16 mcg/m³).
- ▶ Total Xylenes were detected in excess of the NYSDOH outdoor background concentration of 0.74 mcg/m³ in the air sample collected from the rear of the building (8.38 mcg/m³).
- ▶ Trichlorofluoromethane was detected in excess of the NYSDOH outdoor background concentration of 1.0 mcg/m³ in the air sample collected from the rear of the building (1.24 mcg/m³).

- ▶ 1,2,4-trimethylbenzene was detected in excess of the NYSDOH outdoor background concentration of 1.0 mcg/m^3 in the air sample collected from the rear of the building (1.03 mcg/m^3).

The concentrations above were detected in two tenant spaces. Based on these concentrations, a SSDS was installed on November 13 and 14, 2007.

Underground Storage Tanks (UST)

Decommissioning and removal of a 1,000-gallon #2 fuel oil UST located directly behind the western building was completed in accordance with a NYSDEC-approved May 2002 Workplan on November 7, 2002. Four composite post-excavation soil samples (PE-1, PE-1 (DUP), PE-2, and PE-3) were collected from the sidewalls and base of the excavation associated with the 1,000-gallon #2 fuel oil UST. The compounds that exceed the Soil Cleanup Objectives (SCO) can be attributed to historic fill in several areas of the Site and are summarized below.

- ▶ Benzo(a)anthracene was detected at concentrations above the RSCO of 0.036 parts per million (ppm) in soil samples PE-1 (0.19 ppm), PE-1 DUP (0.19 ppm), PE-2 (0.26 ppm), and PE-3 (0.15 ppm).
- ▶ Benzo(a)pyrene was detected at concentrations above the RSCO (0.061 ppm) in soil samples PE-1 (0.22 ppm), PE-1 (DUP) (0.21 ppm), PE-2 (0.26 ppm), and PE-3 (0.15 ppm).
- ▶ Dibenz(a,h)anthracene was detected at concentrations above the RSCO (0.014 ppm) in soil samples PE-1 (0.046 ppm) and PE-2 (0.058 ppm).

3.0 ENGINEERING & INSTITUTIONAL COMPLIANCE REPORT

3.1 INTRODUCTION

Since remaining contaminated groundwater, fill, and soil vapor exists beneath the site, ECs and ICs are required to protect human health and the environment. This section describes the procedures for the implementation and management of all EC/ICs at the site and results of Whitestone's September 4, 2018 inspection of the EC/ICs.

3.2 ENGINEERING CONTROLS

3.2.1 Sub-Slab Depressurization Systems

The sub-slab depressurization system (SSDS) was installed by RaData, Inc. of Flanders, New Jersey on November 13 and 14, 2009. Two SSDS fans were installed. One SSDS fan was installed in the dry cleaners and one fan was installed in the pizzeria. After four-inch (4") diameter holes were core drill cut through the concrete floor, approximately one cubic foot of soil was removed from beneath the slab using a shop vac. Soil was placed in a 55-gallon drum for future disposal. These holes were piped with three-inch (3") diameter Schedule 40 PVC pipe routed through the window at the rear of the former Mountain Dry Cleaners. The window was replaced using plywood. Split-ring hangers, clevis hangers, and two-hole straps were used to attach the pipe securely to the building. The exhaust of the Schedule 40 PVC pipe was routed above the roofline at this location. The SSDS fans were mounted directly to the PVC pipe slightly below the roofline using rubber couplers. The fan units included two (2) Dynavac GP 501 fans (70-140 Watts), maximum pressure of 4.00 inches of water, capable of evacuating 95 cubic feet per minute at 1" static pressure. Conte Electric of Croton-On-Hudson, New York provided electrical service to the fan units. To provide constant evaluation of system performance, mini-magnahelic gauges were installed in a conspicuous location on the PVC pipe along with audio alarms, which sound when fan failure has occurred.

An additional SSDS was installed by RaData, Inc. of Flanders, New Jersey on October 10 through 13, 2010. This included the installation of three SSDS fans in the karate studio. After four-inch (4") diameter holes were cut through the concrete floor, approximately one cubic foot of soil was removed from beneath the slab using a shop vac. Soil was placed in a 55-gallon drum for future disposal. These holes were piped with three-inch (3") diameter Schedule 40 PVC pipes routed through the windows at the side and rear of the karate studio. The windows were replaced using plywood. Split-ring hangers, clevis hangers, and two-hole straps were used to attach the pipe securely to the building. The exhaust the Schedule 40 PVC pipe was routed above the roofline at this location. The vent fans were mounted directly to the PVC pipe slightly below the roofline using rubber couplers. Fan units included three (3) Dynavac GP 501 fans (70-140 Watts), maximum pressure of 4.00 inches of water, capable of evacuating 95 cubic feet per minute at 1" static pressure. Conte Electric of Croton-On-Hudson, New York provided electrical

service to the fan units. To provide constant evaluation of system performance, mini-magnahelic gauges were installed in a conspicuous location on the PVC pipes along with audio alarms, which sound when fan failure has occurred.

Following system installation, sub-slab vacuum measurements were conducted using a digital micromanometer to confirm that a successful negative pressure field was obtained.

3.2.2 Asphalt Cover System

Due to low levels of contaminants remaining in on-site soils (likely due to fill material), the existing asphalt cover system was incorporated into the engineering controls portion of the March 2014 SMP. The asphalt cover system at the site is inspected annually and repairs are made if necessary. Additionally, NYSDEC will be made aware of any repairs to the asphalt cover system.

3.3 INSTITUTIONAL CONTROLS

A series of ICs are required to: (1) implement, maintain and monitor EC systems; and (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination. Adherence to these ICs on the Site is required by the Environmental Easement and is implemented under the March 2014 SMP. These ICs are:

- ▶ Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- ▶ All ECs must be operated and maintained as specified in this SMP;
- ▶ All ECs on the controlled property must be inspected at a frequency and in a manner defined in the SMP;
- ▶ Groundwater monitoring must be performed as defined in the SMP; and
- ▶ Data and information pertinent to Site Management of the controlled property must be reported at the frequency and in a manner defined in the March 2014 SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the controlled property are:

- ▶ The property may only be used for restricted commercial use provided that the long-term ECs and ICs included in the SMP are employed;
- ▶ The property may not be used for a higher level of use, such as unrestricted use, without additional remediation and amendment of the Deed Restriction, as approved by NYSDEC;
- ▶ All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

- ▶ The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- ▶ The potential for vapor intrusion must be evaluated for any buildings developed in the area noted on Figure 2, and any potential impacts that are identified must be monitored or mitigated;
- ▶ Vegetable gardens and farming on the property is prohibited;
- ▶ Any soil excavation proposed at the Site would need to be approved by NYSDEC prior to implementation. This would include a written soil excavation plan which lays out the details of the excavation, especially in the areas where remaining soil contamination is present, that is covered by the Deed Restriction; and
- ▶ The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the controlled property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect both public health and the environment or that constitute a violation or failure to comply with this SMP. NYSDEC retains the right to access such controlled property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by an expert that NYSDEC deems acceptable.

Prior to construction of any enclosed structures located at the property, a Vapor Intrusion (VI) evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, a VI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to conducting a VI investigation or installing a mitigation system, a work plan will be developed and submitted to NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most-recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based in the VI evaluation, the NYSDOH guidance, and construction details of the proposed structure.

Preliminary (unvalidated) VI sampling data will be forwarded to NYSDEC and NYSDOH for initial review and interpretation. Upon validation, the final data will be transmitted to the agencies, along with a recommendation for follow-up action, such as mitigation.

3.4 INSPECTION

A comprehensive site-wide inspection was conducted on September 4, 2018. The September 4, 2018 inspection of the IC/ECs at the site determined and documented the following:

- ▶ The ECs continue to perform as designed. No corrections or modifications to the SMP currently are required;
- ▶ The controls continue to be protective of human health and the environment;
- ▶ Compliance with requirements of the SMP and the Environmental Easement has been achieved;
- ▶ Remedial performance criteria have been achieved;
- ▶ Site records are complete and up to date; and
- ▶ Changes to the remedial or monitoring system are not needed.

Inspections were conducted in accordance with the procedures set forth in the *Monitoring Plan* of the March 2014 SMP.

3.5 CONCLUSIONS & RECOMMENDATIONS

Whitestone performed inspections of the IC/ECs at the site on September 4, 2018. All IC/ECs were in place and properly functioning at the time of the inspection. No corrections or modifications to the SMP currently are required. A *Site-Wide Inspection Form* is included as Appendix B. Site uses/restrictions are compliant with the ICs. No changes to the IC/ECs for the site are required.

3.6 CERTIFICATION OF ENGINEERING & INSTITUTIONAL CONTROLS

The NYSDEC *Institutional and Engineering Controls Certification Form* from the *Site Management Periodic Review Report Notice* is included as Appendix A.

4.0 MONITORING PLAN COMPLIANCE REPORT

4.1 INTRODUCTION

This section of the PRR describes the measures for evaluating the performance and effectiveness of the remedy to mitigate contamination at the site for all affected site media identified below.

Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Monitoring Wells MW-1 through MW-6	Annual	Groundwater	VOs
SSDS Inspection	Annual Regularly (by tenant)	Soil Vapor/Indoor Air SSDS Functioning	NA NA
* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH NA – Not Applicable			

4.2 SOIL COVER SYSTEM MONITORING

A cover system inspection of the asphalt pavement areas was performed on September 4, 2018 to ensure the integrity of the system. The cover was in place and intact during the inspection and is determined to be effectively reducing/minimizing human exposure to the remaining on-site contamination.

4.3 MEDIA MONITORING

4.3.1 Groundwater Monitoring

Groundwater monitoring is performed on an annual basis to assess the performance of the remedy. The network of monitoring wells was installed to monitor both up-gradient and down-gradient groundwater conditions at the Site.

- ▶ Whitestone conducted a groundwater sampling and analyses program on four of the six monitoring wells located on the subject property on September 4, 2018. MW-1 and MW-2 were not accessible at the time of sampling, therefore, were not included in the sampling and analyses program. MW-1 historically has had non-detect levels of site constituents of concern while MW-2 historically has had only slightly elevated levels of PCE above NYSDEC AWQS. Therefore, the exclusion

of these wells does not impact the groundwater monitoring conclusion at this time.

Whitestone conducted the groundwater sampling in accordance with NYSDEC regulations. Groundwater samples collected by Whitestone were submitted under proper chain-of-custody to Hampton-Clark Laboratories (HC) of Fairfield, New Jersey, a state-certified laboratory (NY Certification #11408). Groundwater samples were submitted for volatile organics (VO) analyses and the results were compared to NYSDEC Technical and Operation Guidance Series (TOGS). QA/QC samples including a duplicate of MW-4, field blank, and trip blank were also collected as part of the sampling efforts. Purge water was drummed and disposed of at an off-site facility.

Groundwater samples collected from MW-4 and MW-6 each exhibited concentrations of PCE in exceedance of NYSDEC TOGS. Additionally, chloroform was detected in MW-6 at a concentration exceeding NYSDEC TOGS (Table 1). These data are generally consistent with past sampling events.

The sampling frequency may be modified with the approval of NYSDEC. The *Monitoring Plan* will be modified to reflect changes in sampling plans approved by NYSDEC. No modifications are proposed at this time.

4.3.1.1 Monitoring Well Repairs, Replacement & Decommissioning

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent PRR. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by NYSDEC.

4.3.2 Soil Sampling

Soil sampling is only required during any intrusion work performed at the site. Per the NYSDEC-approved SMP for the site, soil excavated is to be stockpiled, characterized, and returned to the restricted area or disposed of at a regulated off-site facility. Dust and air quality monitoring is required during all excavation and restoration activities in order to reduce human exposure. Intrusive work has not been performed at the site during this

PRR period up to the time of this submission.

4.3.2.1 Sampling Protocol

No soil sampling was required in accordance with the SMP for the site.

4.3.3 SOIL VAPOR MONITORING

Soil vapor sampling is not required as part of the SMP. Soil vapor is being mitigated and monitored through the SSDSs located in the vacant unit (former dry cleaners), pizza restaurant, and karate studio. The monitoring and inspection of the SSDSs are outlined in Section 5.0 of this PRR.

4.4 CONCLUSIONS

Whitestone performed a site-wide inspection on September 4, 2018 to ensure all mechanisms of the SMP for the site were in compliance. Based on the inspection, all mechanisms of the SMP are compliant and protective. No corrections or modifications to the SMP currently are required.

5.0 OPERATION & MAINTENANCE PLAN COMPLIANCE REPORT

5.1 INTRODUCTION

This section of the PRR describes the compliance of the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the site.

5.2 SUB-SLAB DEPRESSURIZATION SYSTEMS

5.2.1 Overview

The SSDSs located within the dry cleaners and the pizzeria consist of three-inch diameter PVC pipes placed in the sub-base immediately below the building's floor slab. The pipes extend vertically (upward) through the units and vent to the exterior atmosphere above the roof. Fans (Dynavac GP501) capable of mechanically venting 95 CFM of air from beneath the slab were placed in line with the vent pipes below the roof. Additionally, in-line magnahelic vacuum gauges and alarm systems (Radonaway Checkpoint II) were installed on the SSDS. The fans and gauges/alarms each have dedicated electrical circuits. The operation and maintenance program was designed to ensure that the SSDSs operate on a continuous basis at the site and provide the appropriate depressurization beneath the floor slab of the retail-strip building. The program primarily consists of the inspection of non-mechanical components and the inspection, maintenance, and repair/replacement of mechanical components. The SSDS in the dry cleaners and pizzeria were installed on November 13 and 14, 2009.

The SSDS located within the karate studio consists of three-inch diameter PVC pipes placed in the sub-base immediately below the building's floor slab. The pipes extend vertically (upward) through the unit and vent to the exterior atmosphere below the roof. Fans (Dynavac GP 501) capable of mechanically venting 95 CFM of air from beneath the slab were placed in line with the vent pipes below the roof. Additionally, in line magnahelic vacuum gauges and alarm systems (Radonaway Checkpoint II) were installed on the SSDS. The fans and gauges/alarms each have dedicated electrical circuits. The operation and maintenance program was designed to ensure that the SSDSs operate on a continuous basis at the site and provide the appropriate depressurization beneath the floor slab of the retail-strip building. The program primarily consists of the inspection of non-mechanical components and the inspection, maintenance, and repair/replacement of mechanical components. The SSDS in the former dry cleaners and karate studio were installed on October 10 through 13, 2010.

5.2.2 SYSTEM OPERATION INSPECTION

A visual inspection of the SSDSs was performed to ensure integrity of the systems and assess the need for maintenance. Whitestone inspected the SSDSs located in the dry cleaners, karate studio, and the pizzeria on September 4, 2018. The inspection confirmed

that both SSDSs are functioning correctly and all components (piping, alarms, fittings, fans, seals, etc.) are also in compliance with the SMP for the site. A *Routine Maintenance Form* is included in Appendix C. Periodic inspections are also performed by site tenants and the SSDSs' alarm systems would notify the tenants of a failure of the SSDSs. No issues associated with the SSDSs have been reported by the tenants.

6.0 OVERALL CONCLUSIONS & RECOMMENDATIONS

This PRR has been prepared in accordance with NYSDEC DER-10 and the NYSDEC-approved SMP for the site. The site-wide EC/ICs and SSDS inspection for the site located at 20 Welcher Avenue, Peekskill, New York were performed on September 4, 2018.

The following are Whitestone's conclusions and recommendations based on the inspections:

Conclusions:

- ▶ The EC/ICs for the site are effective in reducing human exposure to contaminated media and are in compliance with the SMP;
- ▶ Site conditions and uses are consistent with the requirements of the established ICs; and
- ▶ The SSDSs located at the site are operating properly and are in compliance with the SMP and their respective design requirements.

Recommendations:

- ▶ No changes or addendums to the SMP or IC/ECs are recommended based on the results of Whitestone's inspections.

TABLE 1
Groundwater Sampling & Analyses
Data Summary

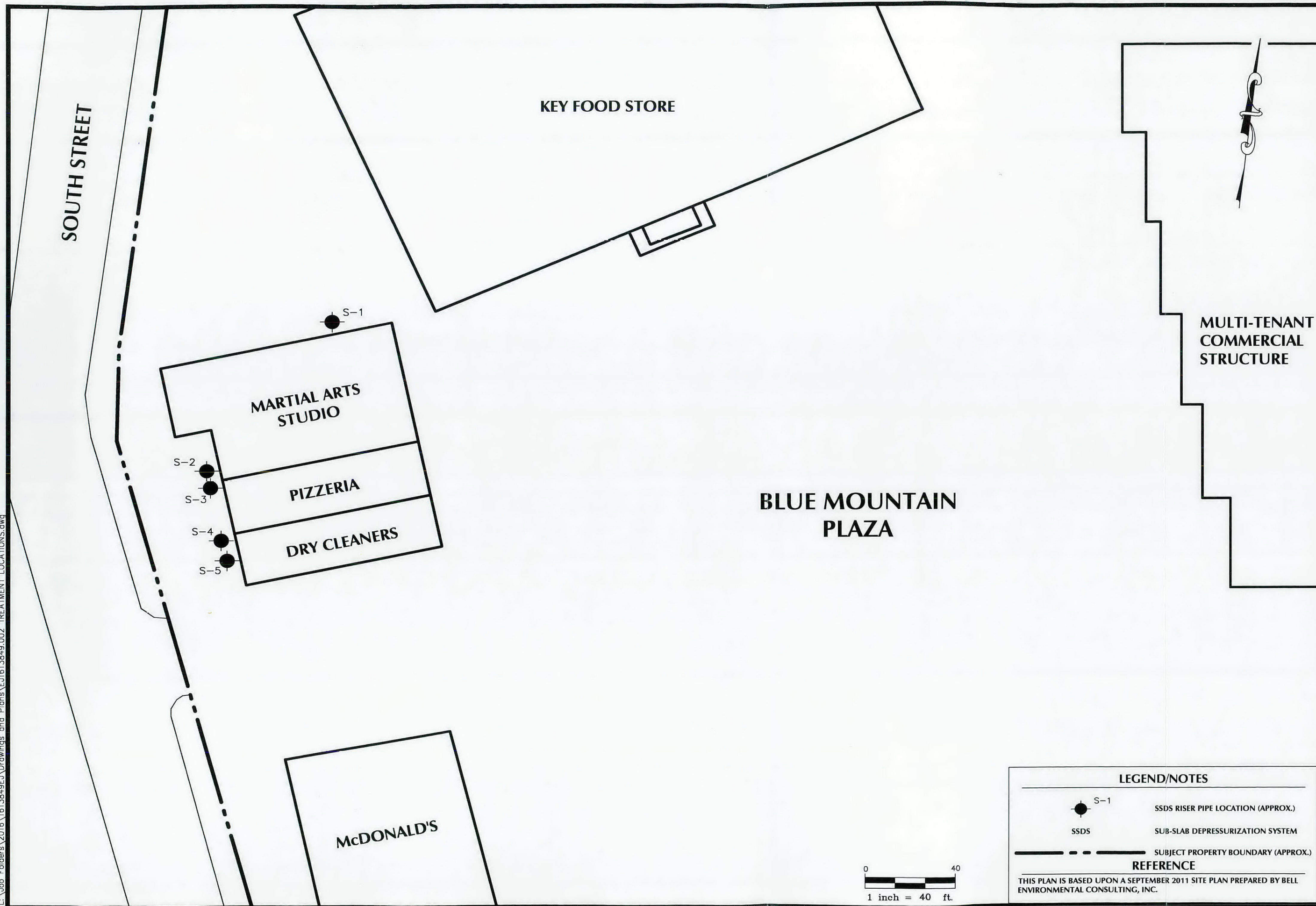
TABLE 1
GROUNDWATER SAMPLING & ANALYSES DATA SUMMARY
 Blue Mountain Plaza Shopping Center
 20 Welcher Avenue
 Peekskill, Westchester County, New York

 WHITESTONE ASSOCIATES, INC.	SAMPLE ID:	MW-3	MW-4	MW-5	MW-6	DUP	FB	TB
	LAB ID:	AD06316-002	AD06316-003	AD06316-001	AD06316-004	AD06316-005	AD06316-006	AD06316-007
	COLLECTION DATE:	9/4/2018	9/4/2018	9/4/2018	9/4/2018	9/4/2018	9/4/2018	9/4/2018
	DEPTH TO GW:	20.87	21.55	17.91	21.11	21.55	--	--
	SAMPLE MATRIX:	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
ANALYTE	TOGS	Result Flg RL	Result Flg RL	Result Flg RL	Result Flg RL	Result Flg RL	Result Flg RL	Result Flg RL
VOLATILE ORGANICS (VOs)								
1,1,1-Trichloroethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,1,2,2-Tetrachloroethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,1,2-Trichloroethane	1	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,1-Dichloroethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,1-Dichloroethene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2,3-Trichlorobenzene	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2,4-Trichlorobenzene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2-Dibromo-3-chloropropane	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2-Dibromoethane	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2-Dichlorobenzene	3	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,2-Dichloroethane	0.6	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
1,2-Dichloropropane	1	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,3-Dichlorobenzene	3	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,4-Dichlorobenzene	3	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
1,4-Dioxane	NA	ND 50	ND 50	ND 50	ND 50	ND 50	ND 50	ND 50
2-Butanone	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
2-Hexanone	50	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
4-Methyl-2-pentanone	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Acetone	50	ND 5.0	ND 5.0	ND 5.0	ND 5.0	ND 5.0	ND 5.0	ND 5.0
Benzene	1	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
Bromochloromethane	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Bromodichloromethane	50	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Bromofrom	50	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Bromomethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Carbon disulfide	60	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Carbon tetrachloride	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Chlorobenzene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Chloroethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Chloroform	7	ND 1.0	5.3 1.0	ND 1.0	26 1.0	5.7 1.0	ND 1.0	ND 1.0
Chloromethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
cis-1,2-Dichloroethene	5	ND 1.0	1.1 1.0	ND 1.0	ND 1.0	1.3 1.0	ND 1.0	ND 1.0
cis-1,3-Dichloropropene	0.4	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Cyclohexane	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Dibromochloromethane	50	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Dichlorodifluoromethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Ethylbenzene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Isopropylbenzene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
m&p-Xylenes	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Methyl Acetate	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Methylcyclohexane	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Methylene chloride	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Methyl-t-butyl ether	10	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 0.50
o-Xylene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Syrene	930	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Tetrachloroethane	5	ND 1.0	7.7 1.0	ND 1.0	40 1.0	8.9 1.0	ND 1.0	ND 1.0
Toluene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
trans-1,2-Dichloroethene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
trans-1,3-Dichloropropene	0.4	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Trichloroethene	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Trichlorofluoromethane	5	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Vinyl chloride	2	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0
Xylenes (Total)	NA	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0	ND 1.0

Notes:
 Shaded and bold value indicates an exceedence of the NYSDEC TOGS
 All results reported in parts per billion (ppb or ug/L)
 Depth to groundwater reported in feet below top of casing (ftbc)
 Depth to groundwater reported in feet below ground surface (ftbs)
 TOGS - NYSDEC Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards
 Flg - Data Qualifier
 RL - Laboratory Reporting Limit
 ND - Not Detected Exceeding RL
 NA - No Applicable NYSDEC TOGS
 J - Detected at an estimated concentration
 -- - Not analyzed for this compound

FIGURE 1
Location of Remedial Treatment
Systems (SSDSs)

L:\Job Folders\2016\1613849EJ\Drawings and Plans\EJ1613849.002 TREATMENT LOCATIONS.dwg



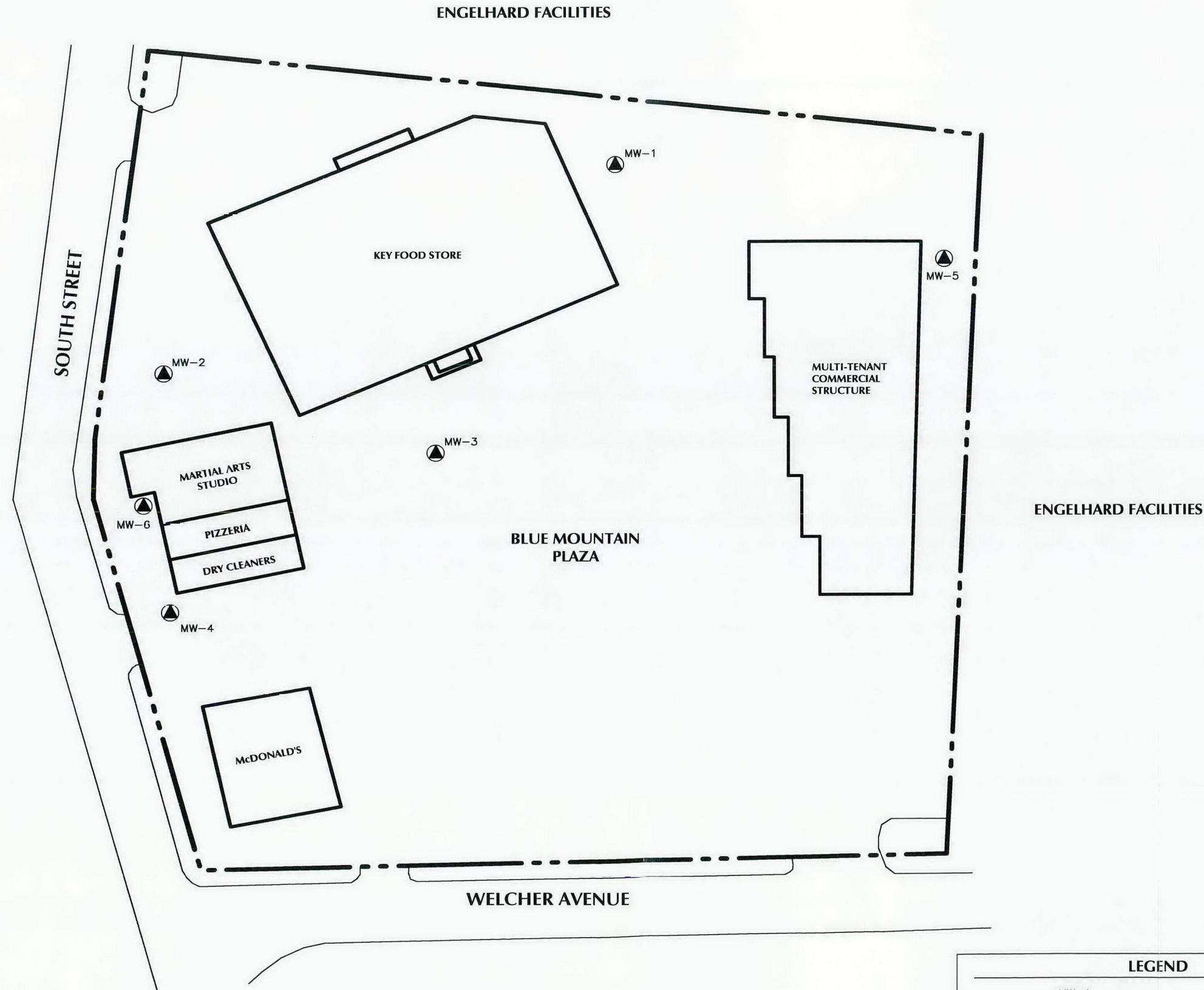
LEGEND/NOTES	
 S-1	SSDS RISER PIPE LOCATION (APPROX.)
SSDS	SUB-SLAB DEPRESSURIZATION SYSTEM
	SUBJECT PROPERTY BOUNDARY (APPROX.)
REFERENCE	
THIS PLAN IS BASED UPON A SEPTEMBER 2011 SITE PLAN PREPARED BY BELL ENVIRONMENTAL CONSULTING, INC.	

 WHITESTONE ASSOCIATES, INC. <i>Environmental & Geotechnical Engineers & Consultants</i> 35 TECHNOLOGY DRIVE, WARREN, NJ 07059 908.668.7777 WHITESTONEASSOC.COM	
DRAWING TITLE: LOCATION OF REMEDIAL TREATMENT SYSTEMS (SSDs)	
CLIENT: KURTSM REALTY CORPORATION	
PROJECT: BLUE MOUNTAIN PLAZA SHOPPING CENTER 20 WELCHER AVENUE SECTION 42, TAX SHEET 8, LOT 1.2 PEEKSKILL, WESTCHESTER COUNTY, NY	
PROJECT #: EJ1613849.002	
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 8/23/17	FIGURE: 1
SCALE: 1" = 40'	

FIGURE 2
Monitor Well Location Plan

L:\Job Folders\2016\1613849EJ\Drawings and Plans\EJ1613849.002 MWLP.dwg

KARTA
CONTAINER
&
RECYCLING, INC.



0 80
1 inch = 80 ft.

LEGEND

MW-1
▲ MONITOR WELL LOCATION (APPROX.)

--- SUBJECT PROPERTY BOUNDARY (APPROX.)

REFERENCE

THIS PLAN IS BASED UPON A SEPTEMBER 2011 SITE PLAN PREPARED BY BELL ENVIRONMENTAL CONSULTING, INC.

**WHITESTONE
ASSOCIATES, INC.**
Environmental & Geotechnical Engineers & Consultants
35 TECHNOLOGY DRIVE, WARREN, NJ 07059
908.668.7777 WHITESTONEASSOC.COM



DRAWING TITLE:
MONITOR WELL LOCATION PLAN

CLIENT:
KURTSAM REALTY CORPORATION

PROJECT:
BLUE MOUNTAIN PLAZA SHOPPING CENTER
20 WELCHER AVENUE
SECTION 42, TAX SHEET 8, LOT 1.2
PEKSKILL, WESTCHESTER COUNTY, NY

PROJECT #: EJ1613849.002	
DESIGNED BY: GR	PROJ. MGR.: CS
DATE: 8/23/17	FIGURE: 2
SCALE: 1" = 80'	

APPENDIX A
Institutional and Engineering
Controls Certification Form



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



Site Details		Box 1	
Site No.	V00160-3		
Site Name Blue Mountain Plaza Shopping Center			
Site Address: 20 Welcher Avenue		Zip Code: 10566	
City/Town: Peekskill			
County: Westchester			
Site Acreage: 5.7			
Reporting Period: August 31, 2017 to August 31, 2018			
		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/ECs in place and functioning as designed?		☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 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	

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
01-Sheet2-P25,P25B	Kurtsam Realty Corp.	Ground Water Use Restriction Site Management Plan

This parcel may be used for commercial or industrial use provided the long-term engineering controls are employed:

1. Continued operation, monitoring and maintenance of the sub-slab depressurization system (SSDS) in the retail strip (lot P-25), as outlined in the Department-approved Site Management Plan (SMP);
2. A barrier layer must be maintained on the Controlled Property of either one (1) foot of clean fill or an alternative barrier layer approved by the NYSDEC, such as the existing concrete, including building slabs, and asphalt;
3. Any proposed soil excavation on the Controlled Property below the barrier layer requires prior notification and approval by the NYSDEC in accordance with the SMP. The excavated soils must be managed, characterized, and properly disposed of in accordance with NYSDEC regulations and directives and the SMP;
4. Any area of soil excavation below the barrier layer that is to be returned to vegetated soil (i.e., not concrete, asphalt or structures) must be backfilled with a minimum of one (1) foot layer of clean fill underlain by a demarcation layer;
5. Any new structures constructed on the Site must be evaluated for potential soil vapor intrusion and mitigated as necessary in accordance with the building mitigation provisions of the SMP;
6. The use of the groundwater underlying the Controlled Property is prohibited without prior approval from the NYSDEC rendering it safe for use for drinking or commercial purposes.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
01-Sheet2-P25,P25B	Vapor Mitigation Cover System

1. Continued operation, monitoring and maintenance of the sub-slab depressurization system (SSDS) in the retail strip (lot P-25), as outlined in the Department-approved Site Management Plan (SMP).
2. A barrier layer must be maintained on the Controlled Property of either one (1) foot of clean fill or an alternative barrier layer approved by the NYSDEC, such as the existing concrete, including building slabs, and asphalt.

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 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 complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or 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. 360084

Box 6

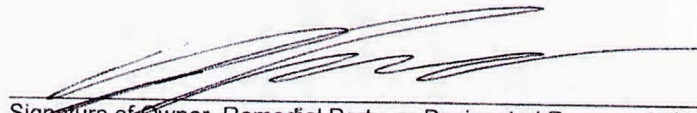
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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.

I Joanne Landau at P.O. Box 383, Croton on Hudson, New York 10520,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

10-3-18
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Keith T. D'Ambrosio at 35 Technology Drive, Warren, New Jersey 07059,
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Keith T. D'Ambrosio
Signature of Professional Engineer, for the Owner
Remedial Party, Rendering Certification



10/4/18
Date

APPENDIX B

Site-Wide Inspection Form

SITE-WIDE INSPECTION FORM

I. Background Site Information

A. Facility Name and Location:

Business Name as it appears on the Environmental Easement: Kurtsam Realty Corp.

Name of the current operator at the site (if different than above): Kurtsam Realty Corp.

Property Street Address: 20 Welcher Avenue

Municipality: Peekskill County: Westchester

Block: 1

Lot: 1 and 2

Year of Tax map from which this information is obtained: 2011

B. Person responsible for submitting the certification and inspection report for Institutional & Engineering Controls:

Person's Name: Joanne Landau

Person's Title: Owner

Business Name: Kurtsam Realty Corp.

Relationship to the Site (check as appropriate): Owner X Operator X

Lessee _____ Person Who Conducted the Cleanup _____

Other (describe) _____

Street Address: P.O. Box 383 City: Croton on Hudson State: NY

Telephone Number: 914-271-5706

Fax Number: 914-271-5705 E-mail Address: jzlandau@aol.com

C. All Current Owner, Lessee(s) and Operator(s):

Name of Person: Joanne Landau

Business Name: Kurtsam Realty Corp.

Relationship to the Site: Owner X Operator X Lessee _____

Street Address: P.O. Box 383

City: Croton on Hudson State: NY

Telephone Number: 914-271-5706

Fax Number: 914-271-5705

E-mail Address: jzlandau@aol.com

Business Name: Go No Sen Karate
Relationship to the Site: Owner _____ Operator _____ Lessee X
Street Address: 28 Welcher Avenue
City: Peekskill State: NY
Telephone Number: 914-734-2461
Fax Number: _____
E-mail Address: _____

Business Name: Anthony's Pizza
Relationship to the Site: Owner _____ Operator _____ Lessee X
Street Address: 22 Welcher Avenue #4
City: Peekskill State: NY
Telephone Number: 914-737-0322
Fax Number: _____
E-mail Address: _____

D. Case Specific Information (Complete all that apply):

- Site Name: Blue Mountain Plaza Shopping Center
- NYSDEC Site Number: V00160-3
- Date of each Certification of Completion for the site: December 2012
- Name and Bureau of assigned Case Manager at the time the Environmental Easement was issued: John Miller, Region 3

E. Existing Site Conditions

- Describe the physical characteristics of the site.

The site is located in Peekskill, Westchester County, New York and is identified as Section 42.8, Block 1, Lots 1 and 2 on the City of Peekskill, Westchester County Tax Map. The site is an approximately 5.4-parcel area and consists of Blue Mountain Plaza Shopping Center. The area immediately surrounding the subject property consists of a mix of residential and commercial uses. The site is bound by Englehard Corporation to the north and east; Welcher Avenue to the south; and South Street to the west (see Figure 2).

- Describe the current site operations.

Current site tenants include a McDonald's restaurant building and a retail-strip building that houses a Karate studio, a pizzeria, and the former drycleaners space (currently vacant) in the western portion of the site. The north-most site structure is occupied by Key Food grocery store. The east-most site structure is occupied by various commercial tenants including CVS Pharmacy, a chinese restaurant, a flower shop, a beauty salon, a dollar store, a bank, and a drycleaners/laundromat.

- Describe each engineering control that applies to the Restricted Areas.

Soil Cover

Exposure to remaining contamination in soil/fill at the site is prevented by a soil cover system placed over the site. This cover system is comprised of four inches of asphalt pavement.

Sub-slab Depressurization Systems (SSDSs)

The sub-slab depressurization system (SSDS) was installed by RaData, Inc. of Flanders, New Jersey on November 13 and 14, 2009. Two SSDS fans were installed. One SSDS fan was installed in the dry cleaners and one fan was installed in the pizzeria. After four-inch (4") diameter holes were core drill cut through the concrete floor, approximately one cubic foot of soil was removed from beneath the slab using a shop vac. Soil was placed in a 55-gallon drum for future disposal. These holes were piped with three-inch (3") diameter Schedule 40 PVC pipe routed through the window at the rear of the former Mountain Dry Cleaners. The window was replaced using plywood. Split-ring hangers, clevis hangers, and two-hole straps were used to attach the pipe securely to the building. The exhaust of the Schedule 40 PVC pipe was routed above the roofline at this location. The SSDS fans were mounted directly to the PVC pipe slightly below the roofline using rubber couplers. The fan units included two (2) Dynavac GP 501 fans (70-140 Watts), maximum pressure of 4.00 inches of water, capable of evacuating 95 cubic feet per minute at 1" static pressure. Conte Electric of Croton-On-Hudson, New York provided electrical service to the fan units. To provide constant evaluation of system performance, mini-magnahelic gauges were installed in a conspicuous location on the PVC pipe along with audio alarms, which sound when fan failure has occurred.

An additional SSDS was installed by RaData, Inc. of Flanders, New Jersey on October 10 through 13, 2010. This included the installation of three SSDS fans in the karate studio. After four-inch (4") diameter holes were cut through the concrete floor, approximately one cubic foot of soil was removed from beneath the slab using a shop vac. Soil was placed in a 55-gallon drum for future disposal. These holes were piped with three-inch (3") diameter Schedule 40 PVC pipes routed through the windows at the side and rear of the karate studio. The windows were replaced using plywood. Split-ring hangers, clevis hangers, and two-hole straps were used to attach the pipe securely to the building. The exhaust the Schedule 40 PVC pipe was routed above the roofline at this location. The vent fans were mounted directly to the PVC pipe slightly below the roofline using rubber couplers. Fan units included three (3) Dynavac GP 501 fans (70-140 Watts), maximum pressure of 4.00 inches of water, capable of evacuating 95 cubic feet per minute at 1" static pressure. Conte Electric of Croton-On-Hudson, New York provided electrical service to the fan units. To provide constant evaluation of system performance, mini-magnahelic gauges were installed in a conspicuous location on the PVC pipes along with audio alarms, which sound when fan failure has occurred.

II. Protectiveness Evaluation

A. Institutional Control Information

- Provide the following information for the recorded Environmental Easement:

Book Number: 10032
Page Number: 124

Date the Environmental Easement was filed in the office of the county recording officer: June 30, 2011

- Have any amendments and/or additional filings been recorded that may modify or supersede the Environmental Easement and Exhibits?

Yes ☐ No ☒

If you answered "Yes", provide an explanation. Also provide the Book and Page Number of the amendment and/or additional filing and the date it was filed in the office of the county recording officer.

B. Evaluation of Institutional and Engineering Controls:

(The appropriate box on the left must be checked for each of the following items.)

1. Zoning or Land Use Changes

- a. Land use at the time the Environmental Easement was filed (check all that apply):

Non-Residential ☒ Residential ☐ Agricultural ☐ Other ☐

- b. Current land use (check all that apply):

Non-Residential ☒ Residential ☐ Agricultural ☐ Other ☐

If the current land use is different than the land use at the time the Environmental Easement was filed, explain how the remedial action, which included the Environmental Easement, remains protective of public health and safety. Include the Case Manager's name and Bureau that approved this change, if applicable.

- c. Has there been an actual or pending zoning or land-use change for the Restricted Area on which the Environmental Easement is filed?

Yes ☐ No ☒ (If No, proceed to #2, below)

If Yes, describe:

2. Inspections

Have periodic inspections of the site identified any excavation or other disturbance activities that have taken place within the Restricted Areas?

Yes ☐ No ☒ (If No, proceed to "3") (Internal Use ☐)

If yes, provide a full description of the disturbance and the method to restore all controls, compliance with all applicable health and safety laws and regulations, and methods to ensure that exposure to contamination in excess of the applicable remediation standard did not occur. If the disturbance resulted in an unacceptable exposure to the soil contamination explain how this was remedied.

3. Changes to Laws and Regulations

- a. Are there any subsequently promulgated or modified environmental laws or regulations, which apply to the site?

Yes ____ No X (If No, proceed to #4 below)

- b. If Yes, has the evaluation also determined that each engineering and institution controls, as applicable, meets the requirements of the new laws and regulations?

Yes ____ No ____ (If Yes, proceed to #4 below)

- c. Each institutional and engineering controls, as applicable that did not meet the requirements of the new laws and regulations has been addressed in the following manner to bring them into compliance:

4. Detailed Maintenance Logs

Attach a copy of the detailed maintenance log (use Routine Maintenance Reports) of how the persons responsible for monitoring and ensuring the protectiveness of the remedial action have maintained and evaluated the engineering controls.

Date(s) of all Inspections: September 4, 2018, and periodic by tenants for SSDS. Overall site maintenance is continuously performed by the site owner.

APPENDIX C

Routine Maintenance Form

ROUTINE MAINTENANCE REPORT/ ENGINEERING CONTROL SYSTEM INSPECTION CHECKLIST

Client: Kurtsam Realty Corporation
Project/Scope: Periodic Review Report

Project No.: EJ1613849.002
Project Location: 20 Welcher Avenue
Peekskill, Westchester County, New York
Page 1 **of** 1

Date: September 4, 2018
Representative: Michael Marsicano

Weather: 95°F, Sunny	
Equipment & Personnel Present at Site (list all visitors & subcontractors): Michael Marsicano (Whitestone Associates, Inc.)	
Activities/Time:	
14:15	Inspected site-wide engineering controls and compliance with institutional controls
15:00	Inspected sub-slab depressurization system, (SSDS)
15:45	Conducted groundwater sampling
Modifications to the Systems in the Checklist Below:	
There have been no modifications to the systems listed below	
Incidents Noted per systems in the checklist below:	
Components Required to be Checked Per Site Management Plan:	
SSDS Vacuum blowers/fans (Dynavac GP 501)	☒
General SSDS systems piping and fittings/seals	☒
SSDS alarms	☒
SSDS/electrical systems	☒
Asphalt Pavement	☒

Miscellaneous Comments & Observations:	
Check all that apply (attached): ☐ Site Sketch ☐ Logs ☐ Incident Report ☐ Photos ☐ Invoices	