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Engineers and
Scientists

Supplemental Remedial Investigation Work Plan

Former Belle Cleaners, 40 Purchase Street, Rye, NY
BCP No. C360086

Submitted to:

New York State Department of Environmental Conservation
Region 1
625 Broadway
Albany, New York 12233

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January 2024
Project 2002105

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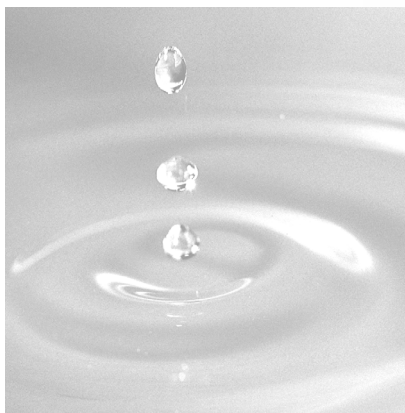


Table of Contents

Certification	1
1. Background and Site Description	2
1.1 Introduction	2
1.2 Objective of the SRIWP	2
1.3 Background	2
1.4 Description of Local Hydrogeological Conditions	2
1.4.1 Site Soil/Stratigraphy	2
1.4.2 Aquifer Characteristics and Groundwater Flow Direction	3
1.5 Site History and Previous Investigations	3
1.6 Project Organizational Structure and Responsibility	5
2. Scope of Work	6
2.1 Off-Site Soil Vapor Intrusion (SVI) and Indoor Air Sampling	6
2.2 Groundwater	7
2.3 Execution of the SRIWP	7
2.3.1 Mobilization and Site Access	7
2.3.2 Work Area Preparation	8
2.3.3 Odor and Fugitive Dust Control	8
2.3.4 Soil Vapor Point Installations and Air Sample Collection	9
2.3.5 Groundwater Monitoring Well Installation and Groundwater Sample Collection	10
2.3.6 Monitoring Well Development	11
2.3.7 Material Handling	11
2.3.8 Parking Lot/Sidewalk Restoration	11
3. Data Evaluation and Remedial Investigation Report	12
3.1 Data Evaluation	12
3.2 Supplemental Remedial Investigation Report	12
4. Schedule	13

Figures

1. Site Location Map
2. Proposed Soil Vapor, Indoor, and Outdoor Air Sample Locations
3. Existing and Proposed Monitoring Well Locations

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Certification

I, Nicholas J. Recchia, P.G., certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Supplemental Remedial Investigation Work Plan (SRIWP) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).


Signature

January 31, 2024

Date

1. Background and Site Description

1.1 Introduction

GEI Consultants, Inc., P.C. (GEI) has prepared this Supplemental Remedial Investigation Work Plan (SRIWP) for the Site located at 40 Purchase Street (Section 146.07, Lot 3, Block 18, Lot 25) in the City of Rye, New York (the Site). The Site was accepted into the New York State Department of Environmental Conservation's Brownfield Cleanup Program (NYSDEC BCP), BCP No. C360086, on August 20, 2014.

1.2 Objective of the SRIWP

The objective of this SRIWP is to obtain analytical data necessary to evaluate and define the nature, extent, and degree of chlorinated volatile organic compounds (CVOCs) impacts off-Site. The data generated during the field investigation will be used to determine what risks, if any, that the on- and off-Site impacts present to public health and to the environment.

1.3 Background

The Site is located at 40 Purchase Street, Rye, New York and was historically used as a dry-cleaning facility from the late 1940s until approximately 2006 when the existing one-story building was completely renovated for use as a bank (Commerce Bank). The project site is currently vacant. The most recent dry-cleaning business (Belle Cleaners) was in operation from 1984 through 2006. Belle Cleaners was operated by Mr. Taesak Kim through 2001 at which time it was purchased by 38-40 Purchase Street Corp. (owned by Taesak Kim's son, Mr. James Kim). The southern portion of the building was historically divided from the main portion and utilized as a separate retail store that most recently (up until the 2006 building renovation) was occupied by a nail salon.

The footprint of the building along with a small rear driveway comprises the entire property that is approximately 5,000-square feet (ft²) in area. The building is located on the southeast corner of Purchase Street and Smith Street in Rye, Westchester County, New York. Please see Fig. 1, Site Location Map.

1.4 Description of Local Hydrogeological Conditions

1.4.1 Site Soil/Stratigraphy

According to the United States Geological Survey (USGS) Mamaroneck Topographic Quadrangle Map, the Property is located at an elevation of 30 ft above mean sea level. Local

topography slopes gradually toward Blind Brook located approximately $\frac{1}{8}$ -mile to the southwest of the project site.

The property is underlain by glacial till characterized as a mixture of clay, silt sand, gravel, and cobbles. Regionally, this thin lens of till is expected to be less than 20 feet in thickness and rests on an Ordovician age crystalline bedrock of the Hartland Formation which includes basal amphibolite and felsic schist. This schist was encountered at the project site at approximately 8 feet below ground surface (bgs).

1.4.2 Aquifer Characteristics and Groundwater Flow Direction

Site specific work conducted to date suggests that the uppermost groundwater interface was encountered at a depth of approximately 10 to 13 ft bgs, which is within regional bedrock encountered immediately below the basement slab. It has been observed that during heavy to moderate rainfall, the basement experiences flooding, which is a direct result of the shallow bedrock in the region. As an engineering control, the property owner installed several sump and pump systems to combat this reoccurring issue. It should be noted that observations made during this investigation suggest that when the building was first constructed, the basement areas and foundation structures below the building had been excavated into the regional bedrock. This has created an artificial bathtub area within the local bedrock. Two active de-watering sump-pumps are found below the floor of the basement which de-water accumulated water entering the basement excavation area under the basement's floor slab foundation. The sump-pumps are connected and discharge into the municipal sewer system. However, currently the sump pumps are off as the building is vacant. If new tenants move into the Site building, the sump pump discharge will be treated as per the NYSDEC-approved Interim Remedial Measure Work Plan (IRMWP).

Groundwater flow in the immediate area is estimated to be in a southwesterly direction flowing across Purchase Street towards Blind Brook, a nearby creek bed located approximately $\frac{1}{8}$ -mile southwest of the project site.

1.5 Site History and Previous Investigations

The project site was historically used as a dry-cleaning facility from the late 1940s until approximately 2006 when the existing one-story building was completely renovated for use as a bank.

Prior to the preparation of GEI's Remedial Investigation Report (RIR), several investigations were conducted at the property. GEI was provided with the NYSDEC approved Remedial Investigation Work Plan (RIWP) (March 2014) and a previous RIR (December 2012) prepared by CA Rich. The other listed reports were referenced in these documents and were either summarized or not available for review.

Phase I Environmental Site Assessment (Whitestone Associates, Inc. October 2004)

Not available for review

Survey for Asbestos Containing Materials (Whitestone Associates, Inc. October 2004)

Not available for review

Phase II Site Investigation (Whitestone Associates, Inc. October 2004)

Not available for review

Phase II Environmental Site Assessment (ESA) (CA Rich, October 2004)

The scope of work included installation of five shallow soil borings within the rear driveway area with collection and chemical analysis of four soil samples and one groundwater sample for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). Soil analytical results indicate elevated levels of SVOCs above NYSDEC Technical and Guidance Memorandum (TAGM) 4046 Soil Cleanup Objectives (SCOs) but below NYSDEC Part 375 Unrestricted Use SCOs. Tetrachloroethylene (PCE) was detected in the groundwater at elevated concentrations.

Environmental Testing in Response to Reported Release (CA Rich, February 2005)

The scope of work included installation of four soil borings and four ‘micro wells’, and collection of two indoor air samples and two soil vapor samples. The results from this round of testing indicate the presence of low levels of VOCs in sub-slab soil gas and groundwater underlying the building. No indoor air quality impacts were observed.

Remedial Investigation Report (CA Rich, December 2012)

The scope of work for this investigation included installation of three exterior and three interior soil borings, two ‘micro wells’, three sub-slab soil vapor points, and three indoor ambient air samples. The results of this investigation indicated elevated levels of chlorinated solvents in the soil, indoor air, sub slab, and groundwater. Recommendations were made to install an in-situ treatment system utilizing either pump & treat, chemical oxidation, or air sparging technologies.

Remedial Investigation Report (GEI Consultants, Inc., P.C. 2017)

The scope of work for this investigation included installation of six interior soil borings, survey the existing on-site monitoring wells to determine groundwater flow direction, the installation of two monitoring wells at a downgradient off-site location and conducting a soil vapor investigation and indoor air quality survey to determine on-site and off-site air quality. The results of the on- and off-site testing of soil, groundwater, soil vapor, indoor air and outdoor air indicated that the former historical operation of the dry-cleaning facility has

impacted the environmental quality of the Site. The immediate mitigation of elevated concentrations of CVOCs in indoor air in the Site building was required. Additionally, off-site soil vapor intrusion (SVI) sampling results indicated that three of the four off-site locations require mitigation.

1.6 Project Organizational Structure and Responsibility

GEI will coordinate with NYSDEC to conduct the SRIWP. Approval of this SRIWP by the NYSDEC will be obtained prior to the investigation.

The drilling subcontractor will be responsible for all drilling activities to include, but not be limited to, compliance with all applicable Occupational Safety and Health Administration (OSHA) regulations, personnel health and safety, installation of soil borings, soil vapor probes, and groundwater monitoring wells associated with the SRIWP, and any other specified tasks outlined in this SRIWP.

GEI will be responsible for project management, subcontractor oversight, SRIWP compliance, determination of corrective measures when needed, monitoring for health and safety, perimeter-air monitoring activities, collection of analytical samples, and the preparation of Site sampling and boring logs. GEI will also serve as the Site Health and Safety Officer.

2. Scope of Work

The scope of work for the Supplemental Remedial Investigation (SRI) is as follows:

2.1 Off-Site Soil Vapor Intrusion (SVI) and Indoor Air Sampling

GEI will attempt to gain access to properties located at:

- 26 through 44 Purchase Street (east side of Purchase Street)
- 27 through 51 Purchase Street (west side of Purchase Street)

One day prior to the completion of the SVI, a chemical inventory inspection of the indoor building space will be made to determine if there are any stored products which contain potentially VOCs that may interfere with the indoor air quality testing and analysis. If any stored volatile organic containing products are found, GEI will ask the owner of the business to remove them prior to the SVI.

At each property where access is granted, one temporary soil vapor probe will be installed. The vapor probes will be set slightly below the basement slab. If the building is slab-on-grade, the vapor probe will be set slightly below the first-floor slab. One indoor air sample will be collected concurrently from the basement of each property to determine indoor air conditions and to provide a basis of comparison between sub-slab air quality and indoor air quality. If the building is slab-on grade, each indoor air sample will be collected from the first-floor space. Additionally, one outdoor air sample will be collected from each property to provide a basis of comparison between sub-slab and indoor air quality and outdoor air quality for the off-Site samples collected.

The locations of the proposed air sample locations for the scope of this work detailed above are presented in Fig. 2. Since the applicant is a Participant in the NYSDEC BCP the full extent of off-Site contamination will be delineated. If it is determined that additional investigation is needed to fully delineate the on- and off-Site contamination, an additional scope of work for a supplemental investigation will be submitted to NYSDEC for approval.

Soil vapor samples will be collected in accordance with the Final Guidance for Evaluating SVI in the State of New York (NYSDOH October 2006, and all updates).

Soil vapor, indoor, and outdoor air samples will be submitted to a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory to ensure appropriate reporting limits.

2.2 Groundwater

Groundwater flow is towards the west/southwest and found at a depth of 8 to 10 ft bgs. in this area. Two monitoring well couplets will be installed. Each couplet will consist of one water table and one deeper bedrock monitoring well. One monitoring well couplet will be installed in the sidewalk immediately south of Locust Avenue. One monitoring well couplet will be installed in the center of the parking lot west of the Site, north of Locust Avenue. An additional deep monitoring well will be installed in the south end of this parking lot, west of the existing water table monitoring wells. The shallow monitoring wells will be screened from 5 to 15 ft. bgs. The deep monitoring wells will be installed based upon field evidence of a water bearing fracture, anticipated to be around 30 to 40 ft. bgs. The screened depth of the monitoring wells may be adjusted based on the depth to groundwater and field observations.

The locations of the proposed and existing monitoring wells that will be sampled for the scope of this work detailed above are presented in Fig. 3. Since the applicant is a Participant in the NYSDEC BCP the full extent of off-Site contamination will be delineated. If it is determined that additional investigation is needed to fully delineate the on- and off-Site contamination, an additional scope of work for a supplemental investigation will be submitted to NYSDEC for approval.

2.3 Execution of the SRIWP

Site work will commence at 7:00 a.m. Monday through Friday. All work must be completed, and the work area closed for the evening at 5:00 p.m. During working hours, the drilling subcontractor will make every effort to minimize potential community impacts. These include, but are not limited to, noise and traffic concerns associated with the execution of the SRIWP. Site work will not be conducted on weekends or holidays without prior approval by the property owner.

2.3.1 Mobilization and Site Access

All work will be performed in accordance with OSHA, state, and industry safety standards. All on-site personnel performing intrusive activities that have the potential to come in contact with impacted materials will have the requisite Code of Federal Regulations (CFR) 1910.120 OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) Training as well as Site-specific training prior to intrusive activities. All personnel performing work associated with this SRIWP will be required to have both general and Site-specific training. The general training includes all applicable OSHA and state required training, such as 40-hour HAZWOPER and the 8-hour refresher training. Supervisory personnel will also have supervisory training. All personnel will be in a medical surveillance program. Also, Site-specific training will be given to all personnel performing fieldwork at the Site daily.

This Site-specific training will include a review of potential Site hazards, required personal protective equipment (PPE), and Site warning and evacuation procedures.

The City of Rye website will be utilized to determine ownership of the properties which are proposed to be sampled during the off-Site SVI portion of this Work Plan. A letter will be sent to each property owner describing the work proposed to be performed and will include an Access Consent Form. The letter and Access Consent form will be sent via United States Post Office (USPS) certified mail and will be made available for NYSDEC and New York State Department of Health (NYSDOH) to review.

The drilling subcontractor will apply for and obtain all necessary federal, state, and local permits associated with the SRIWP. These permits may include, but are not limited to, sidewalk, traffic routing, road opening, construction/zoning, etc. Conditions of these permits will be complied with during the construction.

The drilling subcontractor will be responsible for contacting the “Dig Safely” New York Call Center (NY811 or 1-800-962-7962) to request that all utilities on the Site be located and marked. The Contractor is responsible for resolving all potential conflicts. Underground utility protection will be the responsibility of the selected Contractor. When all utilities have been verified/confirmed/protected, then intrusive activities may be initiated.

The selected drilling subcontractor will mobilize all necessary labor, equipment, supplies, and materials to complete the SRIWP. Lay down areas for equipment, supplies and materials, the appropriate exclusion zone(s) and support area(s) will be identified to conduct the planned activities safely and effectively. All equipment will be inspected prior to utilization for the SRIWP and checked periodically for performance and corrective repair. All equipment will be cleaned prior to arrival on the project site.

2.3.2 Work Area Preparation

The Work Area will be prepared for the SRIWP. Preparation activities necessary to provide support for the work include the establishment of work zones, support facilities, decontamination facilities, and installation of temporary security measures around work areas. The work area may change daily based on the locations of the sampling points. Modifying the work area daily should help to reduce the need for erosion control, security, and overnight safety measures, and minimize disruption to normal community operations.

All work will be conducted to minimize impacts to existing utilities.

2.3.3 Odor and Fugitive Dust Control

In accordance with NYSDEC and NYSDOH requirements, a Community Air Monitoring Program (CAMP) will be implemented at the Site during drilling activities. The objective of

the CAMP is to provide a measure of protection for the downwind community (i.e., off-Site receptors, including residences and businesses and on-Site workers not involved with SRIWP activities) from potential airborne contaminant releases as a direct result of intrusive SRIWP activities. Air monitoring stations will be placed upwind and downwind of each intrusive work area (i.e., soil boring, soil vapor probe, and monitoring well locations). VOCs and respirable particulates (PM-10) will be monitored at the upwind and downwind stations on a continuous basis. In addition to the fixed stations, VOCs and particulates will be monitored in the work zone using hand-held equipment. VOCs and particulates will also be monitored around the perimeter of the work zone on a regular basis (hourly) by the GEI air monitoring personnel.

2.3.4 Soil Vapor Point Installations and Air Sample Collection

During the SRI, up to 13 soil vapor probes will be installed and 13 soil vapor samples will be collected from the neighboring properties. The total number will be dependent on the number of property owners which grant GEI access. Fig. 2 presents the proposed sample collection locations.

The sub-slab soil vapor probes will be installed using ½-inch-diameter steel drill bit advanced using a handheld Bosch™ Hammer Drill. All of the vapor probes will consist of 3/16-inch-diameter low-density polyethylene (LDPE) Teflon-lined plastic riser tubing. The vapor probe borehole will be backfilled with #2 morie well-grade sand. A surface seal will be placed using an impermeable clay seal installed around the surface of the probe-hole annulus from surface grade level. The vapor well will be purged using a hand pump or equivalent device after installation.

As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a QA/QC device to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a box will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. If the tracer sample results show a 10% presence of the tracer, the probe seals will be adjusted to prevent infiltration. As the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals.

Up to 13 indoor air samples and up to 13 outdoor air samples will be collected. The total number will be dependent on the number of property owners which grant GEI access. All air samples will be collected in 6-liter Summa canisters which have been individually certified clean by the laboratory and analyzed using United States Environmental Protection Agency (USEPA) Method TO-15. Flow rate of both purging and sampling will not exceed 0.2 liters per minute (L/min). Sampling will occur for a duration of 8 hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge

volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and COC protocols. The outdoor and indoor air sampling will be conducted concurrently with the sub-slab soil vapor sampling.

Samples will be analyzed using TO-15 methodology. Soil vapor samples will be properly transported to a NYSDOH ELAP-certified laboratory under COC procedures. The SI evaluation will follow the NYSDOH Guidance for Evaluating SVI in the State of New York (October 2006, updated May 2017). The SVI evaluation portion of this investigation will be completed during the 2022 to 2023 heating season. The Quality Assurance Project Plan referenced in the NYSDEC-approved RIWP will be followed for all SRIWP activities.

2.3.5 Groundwater Monitoring Well Installation and Groundwater Sample Collection

Five new monitoring wells will be installed during the SRI, hydraulically downgradient for the Site. One monitoring well couplet will be installed in the sidewalk immediately south of Locust Avenue. One monitoring well couplet will be installed in the center of the parking lot west of the Site, north of Locust Avenue. An additional deep monitoring well will be installed in the south end of this parking lot, west of the existing water table monitoring wells. The shallow monitoring wells will be screened from 5 to 15 ft. bgs. The deep monitoring wells will be installed based upon field evidence of a water bearing fracture, anticipated to be around 30 to 40 ft. bgs. The screened depth of the monitoring wells may be adjusted based on the depth to groundwater and field observations.

Fig. 3 presents the proposed groundwater monitoring well couplet locations and the existing monitoring wells which are to be sampled as part of this SRI.

Each monitoring well will be constructed with 10 ft of 2-inch-diameter schedule (SCH) 40 polyvinyl chloride (PVC) 0.020-inch slotted well screen threaded to 2-inch-diameter SCH 40 PVC riser to surface. The wells will be completed with a Morie #2 sand pack to 2 ft above top-of-screen, 2 ft of wetted bentonite pellets, and tremie-grout to surface. Monitoring wells will be finished with an expanding well cap and accessed through an 8-inch bolted manhole.

Investigation derived wastes (IDWs) such as drill cuttings, development water, and PPE will be properly stored on-site for proper transportation and disposal and managed in accordance with all applicable federal, state, and local rules and regulations.

Groundwater samples will be collected from each monitoring well following installation and proper well development utilizing low-flow sampling techniques. Field parameter readings will be monitored during sampling including pH, oxidation reduction potential (ORP), specific conductance, and dissolved oxygen (DO).

Each monitoring well will be analyzed for CVOCs by USEPA Method 8260C and perfluoroalkyl and polyfluoroalkyl substances (PFOS/PFAS) using a modified USEPA Method 1633.

Groundwater samples will be properly transported to a NYSDOH ELAP-certified laboratory under COC procedures. The Quality Assurance Project Plan referenced in the NYSDEC-approved RIWP will be followed for all SRIWP activities.

2.3.6 Monitoring Well Development

Monitoring wells will be developed using a high-flow pump and will be monitored for drawdown and recovery at least 24-hours after installation. The development procedure will be completed using a submersible pump and purging a minimum of three-well volumes and periodically surging the water in the monitoring well to loosen and remove suspended fines from the well screen and sand pack. Well development fluids will be pumped into 55-gallon drums. All groundwater generated during development activities will be disposed off-site at an appropriate facility.

2.3.7 Material Handling

SRIWP-derived wastes produced during soil boring and monitoring well installations, including soil cuttings, groundwater, decontamination waters, and removed groundwater will be collected and stored within 55-gallon United States Department of Transportation/United Nations (USDOT/UN) drums. The transporter and transport vehicle must be approved in accordance with Title 6 New York Codes, Rules and Regulations (6NYCRR), Chapter IV, Part 364. The location of the waste storage area will be determined during the preliminary Site visit to be completed prior to the start of SRIWP activities.

2.3.8 Parking Lot/Sidewalk Restoration

The drilling subcontractor will restore all areas disturbed by the SRIWP activities to pre-existing conditions based on the applicable access agreements. Restoration actions shall include, but may not be limited to:

- Removal of all temporary facilities, including decontamination areas, and unused materials.
- Replacement or repair of all asphalt and concrete surfaces removed or damaged during the SRIWP, as appropriate.

3. Data Evaluation and Remedial Investigation Report

The soil vapor and groundwater sample results will be compared to NYSDOH Guidance for Evaluating SVI in the State of New York and subsequent updates, and the New York State Ambient Water Quality Standards and Guidance Values for Class GA Groundwater, respectively.

Groundwater PFAS results will be compared to the April 2023 Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances guidance document.

3.1 Data Evaluation

The purpose of the data evaluation is to determine the extent of off-Site groundwater and soil vapor impacts and to assure that data obtained during the implementation of the SRIWP are adequate in quantity and quality, and applicable to project objectives. To make this determination, the data will be reviewed for the quality of data coverage, compatibility of data collection methods, and completeness, with respect to meeting project objectives by a third-party validator. The Quality Assurance Project Plan referenced in the NYSDEC-approved RIWP will be followed for all SRIWP activities.

To facilitate the interpretation of data generated during the SRI activities, the data will be tabulated in data summary tables. Figures showing sampling locations with the corresponding analytical results will be prepared to enhance the overall understanding of Site conditions regarding the magnitude, location, and flow and transport of contamination.

3.2 Supplemental Remedial Investigation Report

The results, along with supporting documentation, will be provided to the NYSDEC in a Supplemental Remedial Investigation Report (SRIR).

Laboratory data will be provided as a Category B deliverable and a third-party DUSR will be prepared. All data generated as part of the SRI will be submitted to NYSDEC in the required Analytical Services Protocols (ASP) Category B deliverables, with third party DUSR Report and EQUIS Electronic Data Deliverable (EDD) format.

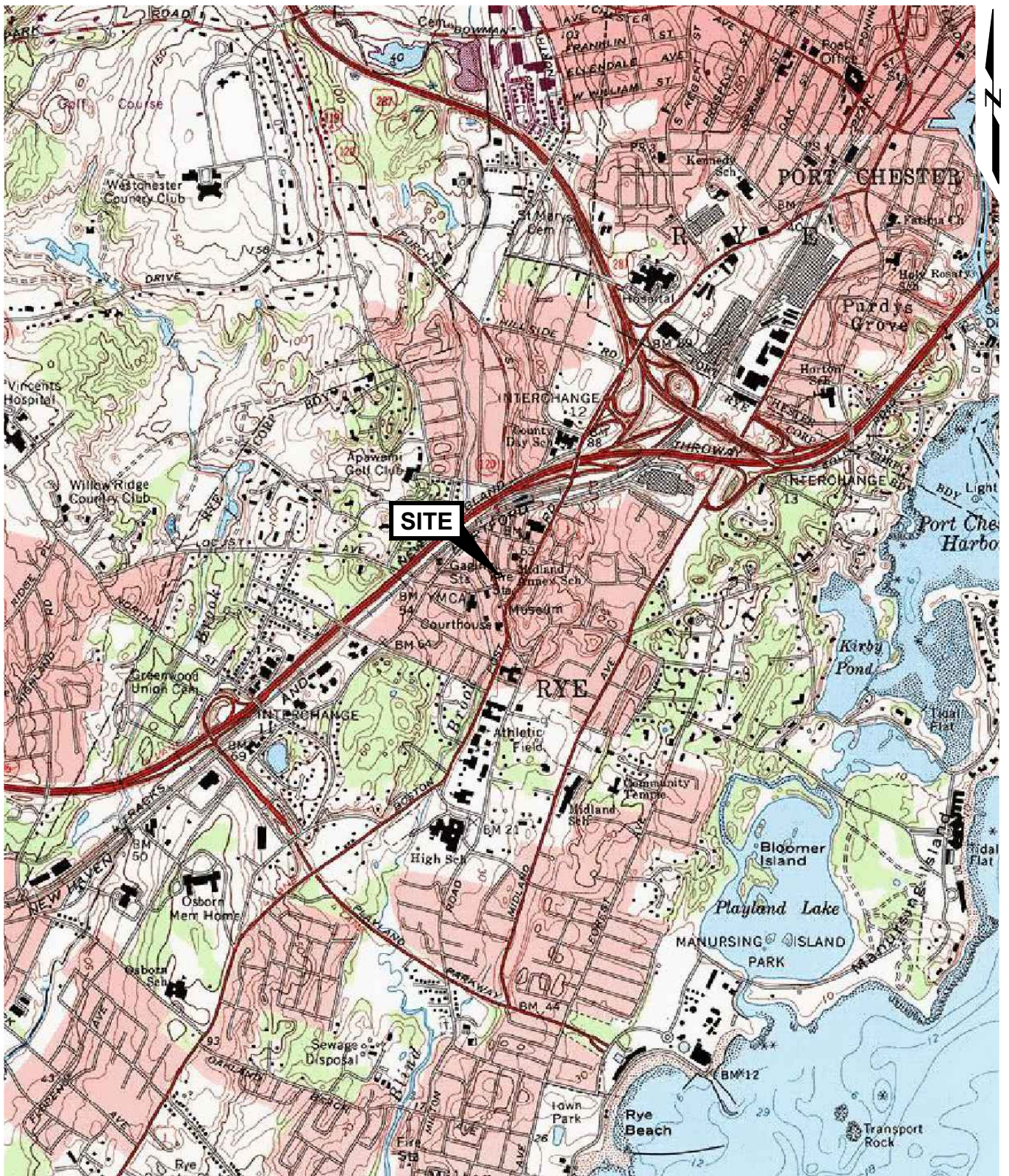
The SRIR will contain a description of the source (if identified), as well as characterizations of the geologic, hydrogeologic, soil, soil vapor, and water quality.

4. Schedule

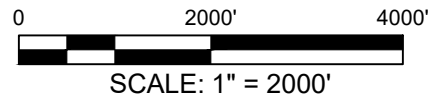
The project schedule for implementation of the SRIWP activities is presented below. The schedule may be affected by regulatory review time periods, contractor response timeframes, timeframes necessary to negotiate access agreements with property owners, community issues, permit review and approval timeframes, or other unknown factors. In addition, if the scope of the proposed SRIWP changes as a result of negotiating access or regulatory review, then revisions to the work plan, and plans and specifications or change orders with the drilling subcontractor and/or GEI may be required and the schedule presented herein, may be impacted. However, every effort will be made to keep the project on the proposed schedule.

Milestone	Time Frame (weeks)	
	Individual	Cumulative
GEI Submits Final SRIWP to NYSDEC	0	0
NYSDEC Approves Final SRIWP	4	4
Drilling Subcontractor Mobilizes for SRI	4	8
SRI Activities Completed	4	12
SRI Report Submitted to NYSDEC	8	20

Figures



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Supplemental Remedial Investigation Work Plan
 Former Belle Cleaners
 40 Purchase Street - Rye, New York

38-40 Purchase Corp.
 Hastings on Hudson, New York



Project 2002105

SITE LOCATION MAP

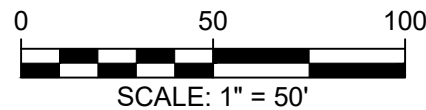
January 2024

Fig. 1



LEGEND:

- ◆ PROPOSED INDOOR AIR SAMPLE
- ◆ PROPOSED OUTDOOR AIR SAMPLE
- PROPOSED SOIL VAPOR SAMPLE
- SITE BOUNDARY



SOURCE:

1. AERIAL PHOTOGRAPH OBTAINED USING BING MAPS, A MICROSOFT CORPORATION.

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 Hastings on Hudson, New York



PROPOSED SOIL VAPOR,
 INDOOR AIR, AND OUTDOOR
 AIR SAMPLE LOCATIONS




Project 2002105

January 2024

Fig. 2



LEGEND:

-  PROPOSED MONITORING WELL
-  EXISTING MONITORING WELL
-  SITE BOUNDARY



SOURCE:

1. AERIAL PHOTOGRAPH OBTAINED USING BING MAPS, A MICROSOFT CORPORATION.

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EXISTING AND PROPOSED
 MONITORING WELLS

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Fig. 3